

# iBiotec®

MMCC/  microchem®

[www.ibiotec.fr](http://www.ibiotec.fr)

## **TECHNICAL PRODUCTS AND AEROSOL SPRAYS ALTERNATIVE SOLVENTS**

INDUSTRIAL MANUFACTURING  
PROCESSING  
MAINTENANCE  
CLEANING



Creator of technical solutions,  
with an ongoing commitment  
to reinvent  
the ESSENTIAL

Established in 1970

17 900 m<sup>2</sup> Production Facility

1 700 m<sup>2</sup> Research and Development

35 000 tons of Production Capacity

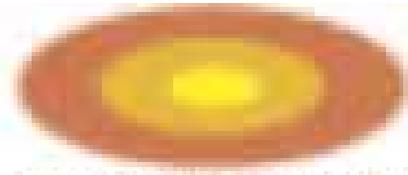
17 Registered Patents

Visit our facilities  
on **YouTube**  
🔍 iBiotec



# Saint-Rémy de Provence Headquarters

Bouches-du-Rhône (France)



CARBON FOOTPRINT\*  
OF ON-SITE ACTIVITY:  
12,21 kg Carbon equivalent



## Certified Production Facility

**ISO 9001 - OHSAS 18001 - ISO 14001 - SMI**

Customer Service and Satisfaction

Certifications underway: ISO 14040 Lifecycle analysis

ISO 26000 Social Responsibility

# Research and Development

## A Major Asset

Our R & D team is comprised of engineers and technicians specialized in many fields, including; lubrication, tribology, metalworking, mold release, degreasing, alternative solvents, cleaning, detergents and anti-corrosion.

The development process involves, not only good coordination between all of our internal departments, but also a strong focus on listening to and detailing the needs of our customers in order to define a solution which best suits their needs.

Our technically trained regional managers have extensive experience in the industry and are always available to provide advice and any specific recommendations to our customers.



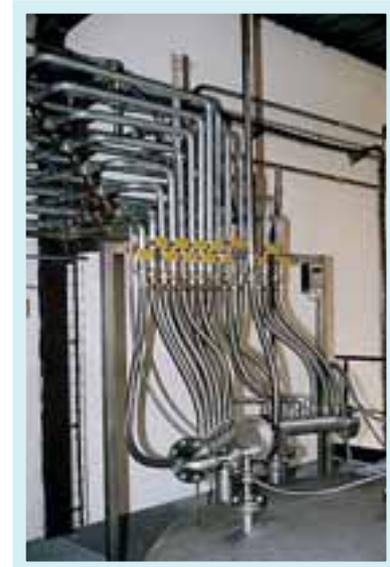
### Additional related services include:

- Assistance in the elaboration of terms, conditions and technical specifications.
- Chemical analysis
- Lab testing
- Regulatory assistance
- Technical training

These are some of the ongoing services that we offer to our customers.

iBiotec has more than 48 years of experience in the development of private labeled chemical products for major European corporations. We work closely with our customers in order to ensure the best solutions for their needs.

## A State-of-the-Art Production Facility



### Automated production process

- 2 manufacturing units with an output of 14,000 liters / hour
- 3 manufacturing units with an output of 10,000 liters / hour
- 3 manufacturing units with an output of 6,000 liters / hour

# Integrated Aerosol Production Solutions



iBiotec is equipped with 3 fully automated filling lines with a combined capacity of 60 aerosol containers per minute per machine.

**iBiotec carries out preventive maintenance at all facilities.**



iBiotec is the inventor of a new technique for pressurizing aerosol containers using “gas-impact”, a method typically associated with the “gasser-shaker” procedure (**Patent 904 0 1968.4**). The “Gas-impact” method provides an all natural aerosol spray of unlimited supply which is inert, fire-resistant, nonflammable and that can be used in food, pharmaceutical, medical and bacteriostatic specific environments.

## Expert Monitoring and Quality Control



In accordance with the requirements and specific instructions we receive from our customers, the team at iBiotec is able to deliver each batch we produce with the following:

- a certificate of conformity.
- a certificate of analysis.
- an analysis report produced by an - accredited external laboratory including COFRAC, BPL, in accordance with ISO 17.025.
- an IR spectrometric result (in products where viscosity permits).

**iBiotec also ensures that all lots of production are fully traceable and the corresponding data is stored for a fixed period of 10 years.**

iBiotec carries out systematic checks on ALL raw materials arriving at our Saint Rémy de Provence location.  
100 % of our manufactured and packaged batches

# A logistics platform that ensures quick delivery times!



Storage of Neutralene® and Bioclean® for bulk consignments or intermediate bulk container deliveries.



8,000 m<sup>2</sup> of dust-free secure warehouses. Our products are always in stock. Thanks to the integrated production to packaging solution at iBiotec, we are able to replenish stock with no delay.

## Integrated Printing Graphic Design and Product Decoration



The team at iBiotec implements quality on-site printing of graphics and decoration onto containers using screen-printing or pad printing methods. Equipped with 9 printing lines, iBiotec can print up to 4,000,000 units.

Immediate regulatory compliance.  
Limited series packaging is available for specialized distributors and industrial merchants.  
iBiotec offers packaging in almost all languages.

# PRODUCT LIST

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# INDUSTRIAL GREASES

Industrial aerosols  
Industrial greases  
Heavy-load greases  
Low-temperature Greases  
High-temperature Greases  
Long-lasting Greases  
Greases for harsh environments  
NSF certified Greases  
Codex compliant Grease  
Greases for Potable Water Applications  
Elastomer Compatible Greases  
Silicon Greases  
MoS<sub>2</sub> Greases  
Teflon® Greases  
Marine Greases  
Vacuum Greases  
Radiation Resistant Greases  
HC/MOSH/MOAH mineral oil free Greases

## NEOLUBE® GR 170

### LITHIUM GREASE SUPER ADHESIVE MULTI-PURPOSE MULTI-FUNCTIONAL

Effective under high pressure  
Resistant to wear and corrosion  
Suitable for wet conditions  
Provides excellent mechanical lubrication  
and maintenance

#### DESCRIPTION

High performance multi-functional lithium complex grease. Polymer based multi-purpose grease for long regreasing intervals. Aerosol spray application allows maximum penetration to all mechanical parts, including difficult to reach areas, mechanisms and moving parts. Highly adhesive and resistant to centrifugal separation. Excellent resistance to shear stress and vibration. Efficient in wet conditions, humidity, steam and salty environments.

#### APPLICATIONS

Ball bearing systems : cylindrical, spherical, gear, tapered, needle and toroidal bearings.  
Cam rollers, including axel and brackets  
Bearings, gear boxes, sprocket wheels  
Rack systems  
Universal joints  
Rollers, cables, joints and hinges  
Linear guidance systems, including ball bearing systems and high capacity systems.  
Aerosol spray insures full coverage of all open mechanical parts.

#### INSTRUCTIONS FOR USE

Shake the aerosol can vertically for a few moments once the ball in the can becomes detached. Spray at a distance of 15 to 25 cm depending on the size of the mechanism to be lubricated.

Degrease parts prior to utilisation of product, if necessary, using Neutralène® V 200: [www.degraisantrapide.com](http://www.degraisantrapide.com)



430 ml tube  
Item Code  
515046



1 L can  
Item Code  
515047



650 ml Aerosol  
Item Code  
514874

Expiration  
date  
extended  
**5**  
Years



Non-flammable  
Inert Plant-based  
Propellant  
3 %

Active  
ingredient  
97 %

Datasheet link : [www.graisseadhesive.com](http://www.graisseadhesive.com)



#### TEMPERATURE RANGE

High dropping point  
Temperature for continuous use  
Peak operating temperature

368,6 °F  
-4 °F +338 °F  
-4 °F +356 °F



#### LOAD BEARING CAPACITY

4 ball TEST  
ASTM D 2266   Wear scar diameter  
ASTM D 2596   Weld load index

0,8 mm  
2500 daN

TIMKEN Test  
ASTM D 2509  
High pressure. Wear-resistant.

30 lbs



#### SPEED FACTOR

Rotational factor  
n.d.m.  
Suitable for low and high speeds, both axial and linear.

500 000 mm.min<sup>-1</sup>



#### SPECIFIC ENVIRONMENTAL FACTORS

EMCOR TEST   NF T 60 135.  
Anti-corrosion  
Provides excellent resistance to water, including prewashing by water or vapor.

Rating 1

#### NLGI Grade 2

Easy to pump and distribute, including automatic lubrication.









Expiration date extended  
**4**  
Years

430 ml Tube  
Code Article  
515054

1 L Can  
Item Code  
514890

Datasheet link : [www.graissehauteperformance.com](http://www.graissehauteperformance.com)

## NEOLUBE® GR 230

### ULTRA HIGH PERFORMANCE LITHIUM-COMPLEX GREASE

Specially designed to handle both High Temperatures and Heavy Loads. Temperature stability at a peak temperature of +482 °F Suitable for use on components of: conveyor belts, ovens and furnaces, drying operations, thermal processing, reaction furnaces, polymerisation, powder coating lines and brake systems.

#### DESCRIPTION

High-performance grease, ideal for prolonged use at high temperatures.

NEOLUBE® GR 230 has inherent adhesive properties and is fully resistant to centrifugation.

NEOLUBE® GR 230 is insoluble in water. This grease is highly recommended for dynamic machine operation and load conditions, providing excellent resistance to mechanical shear pressure, repetitive shock and vibration.

#### APPLICATIONS

Lubrication of power transmissions, chains, rollers, tensioners, and bearings subject to very high temperatures. Industrial ovens for paint, ceramic and plaster applications. Facilities specialized in Epoxy paint procedures. Thermal processing, reaction and pyrolysis furnaces. Breaking systems and retarders. Fabric tentering machines. Glass-wool production lines. Film stretching. Hollow or plate glass production. Foundries, steelworking.



#### TEMPERATURE RANGE

High Dropping point  
Continuous operation temperature  
Peak operating temperature

>572 °F  
-4 °F +446 °F  
-4 °F +482 °F



#### LOAD BEARING CAPACITY

4 Ball Test  
ASTM D 2266    Wear scar diameter  
ASTM D 2596    Weld load index

**0,52 mm**  
**3150 daN**

TIMKEN Test  
ASTM D 2509  
Extreme Pressure.

**45 lbs**



#### SPEED FACTOR

Rotational Factor  
n.d.m.    **200 000 mm.min<sup>-1</sup>**  
Suitable for low and high speeds, both axial and linear.



#### SPECIFIC ENVIRONMENTAL FACTORS

EMCOR TEST    NF T 60.135    **Rating 0/1**  
Excellent water resistance, withstands strong mechanical shear, repetitive impact and heavy vibration.

#### NLGI Grade 2

Easy to pump and distribute, including automatic lubrication.



Industrial oven chain conveyor lubrication. Continuous firing of phenolic/silver conductive polymers at 428 °F

# NEOLUBE<sup>®</sup> AL 150

## CODEX ADHESIVE GREASE LUBRICANT

Grease NSF H1-Certified for  
Agro-Food Industry  
CODEX Quality for Pharmaceutical Industry  
Translucent, Odorless, Flavorless  
No Organoleptic Effects  
Excellent Resistance to Water and Steam



430 ml tube  
Item Code  
515022

1 L can  
Item Code  
514892

650 ml Aerosol  
Item Code  
514871

Datasheet link: [www.graissecodexnsf.com](http://www.graissecodexnsf.com)

### DESCRIPTION

An inorganic gel with anti-corrosion additives. Viscous grease with excellent adhesive properties, suitable for use on low-speed mechanical components. Compatible with all metals, thermosetting resins, thermosetting polymers, composites and elastomers.

### APPLICATIONS

All clean, contaminant-free lubrication needs.  
Joint assembly.  
Paliers, articulations.  
Power transmissions, roller chains, long-pitch chains, API-type chains, hollow rivet chains, leaf chains, slat band chains, fixed ratio transmissions, gearing.  
Conventional geared transmissions, straight gearing, cylindrical gears, worm gears.  
Information transmission, cams, tappets.  
Guide systems, columns, slide rails.  
Pumps, valves, block or gate valves.  
Percolators, water heaters, meters, time stamp equipment, measuring equipment, marine equipment, radio navigation equipment, agitators, mixers, mills, presses, centrifuges, sterilisers, packaging machines, agricultural equipment, packers, closing/capping machines, shrink wrappers, and press tools.  
Canning plants, bakeries, the manufacture of pastries, biscuits and confectionery, delicatessens, dairies, abattoirs, cattle feed, industrial ice cream-makers, breweries, mineral water manufacturing facilities, viticulture and winery operations, fruit and vegetable shipping companies.

### INSTRUCTIONS FOR USE

Shake the aerosol can vertically for a few moments once the ball in the can becomes detached. Spray at a distance of 15 to 25 cm depending on the size of the mechanism to be lubricated.



Lubrication of the rollers on belt conveyor drive systems  
Cleaning of print heads with NEUTRALENE<sup>®</sup> V 200



### TEMPERATURE RANGE

Continuous operation temperature  
Peak operating temperature  
Non-melting, no dropping point,  
no bleeding.

-4 °F +302 °F  
-4 °F +320 °F



### LOAD BEARING CAPACITY

4-ball test

ASTM D 2266 Wear scar diameter  
ASTM D 2596 Weld load index

0,8 mm  
1600 daN

TIMKEN Test  
ASTM D 2509

20 lbs



### SPEED FACTOR

Rotation factor  
n.dm

150 000 mm.min<sup>-1</sup>



### SPECIFIC ENVIRONMENTAL FACTORS

EMCOR TEST NF T 60.135  
Resistance to water, diluted acids and alkaline solutions.

Rating 0/1

**NLGI Grade 2**



## NEOLUBE<sup>®</sup> ALSI 220

### SILICONE GREASE



100 % dimethyl polysiloxane for Very Low Temperatures  
NSF (H1) approved for Food grade contact  
Approved for Potable Water Contact  
Specially designed for Valves and Joints  
Dielectric insulation

#### DESCRIPTION

Colourless, odourless, non-staining lubricant that is totally harmless and sensorially stable.  
Completely insoluble in water, hot water, steam, marine environments. Resistant to the spray or pressurised distribution of water or steam.  
Inert in the presence of dilute chemical products: acids, bases, mineral or vegetable oils, ethanol, glycerol.  
Excellent thermal stability at high and low temperature.  
Perfect dielectric resistance. Isolating grease.  
Completely compatible with elastomers, thermoplastic elastomers (TPEs), high-performance plastics, bi-material seals.

#### APPLICATIONS

Lubrication of taps and valves in cases of unavoidable or permanent contamination. Treated to prevent calcium deposits.  
Lubrication of elastomers and plastic materials in contact with metal. Meters, gas taps, time stamp equipment, measuring equipment, marine and radio navigation equipment.  
Water pumps, membrane pumps and vane pumps.  
Assembly of radial, toric, O-ring, lip, simple or supported seals.  
Assembly of electrical bushings, routing of fibre optics.  
Ski bindings. "Dead water" deck equipment.  
Diving equipment, 1st level lubrication, beacons, watertight tanks, combination zip locks.  
Lubrication of taps and ground glass joints in laboratories.  
Mechanical freezing or deep-freezing components.

#### INSTRUCTIONS FOR USE

NEOLUBE<sup>®</sup> ALSI 220 is supplied in a tube, with a precision application cannula, in order to fill recesses intended to accommodate watertight seals. Use sparingly on clean surfaces.  
Do not use in the presence of pure oxygen under pressure.



All seals degrade over time.  
Neolube ALSI 220 prolongs the lifespan of seals with dimensional stability and shore hardness.

Datasheet link : [www.graissesilicones.com](http://www.graissesilicones.com)



#### TEMPERATURE RANGE

Continuous operating temperature **-58 °F +428 °F**



#### CONTACT WITH DRINKING WATER

APPROVAL CERTIFICATE  
ARRÊTÉ DGS/VS4 N°2000/32 **N° 18 CLP NY 0013**



#### SPEED FACTOR

Rotation factor  
n.d.m. **50 000 mm.min<sup>-1</sup>**  
Suitable for very low linear speeds.  
Static lubrication or assembly.



#### SPECIFIC ENVIRONMENTAL FACTORS

EMCOR TEST NF T 60.135 **Cotation 2**  
Complete resistance to water, to water hardness, under pressure, to steam, to salt water, to brine, to weak acids and bases.  
Compatible with Nitrox.



#### ISOLANTING - DIELECTRIC

Volume resistivity at 77 °F  
Dielectric strength at 77 °F and at 100 hertz  
Breakdown voltage at 68 °F  
NF EN 60.156 **1.1015 W/cm  
2.8 KV cm-1  
16 000 v**



## NEOLUBE<sup>®</sup> PF 10 NLGI 2 PF 10.00 NLGI 00

### PERFLUORINATED GREASE FOR LUBRICATION IN EXTREME CONDITIONS

Optimal Stability within a Wide Temperature Range  
Heavy Load Performance  
Extreme Temperatures and Harsh Environments,  
Compatible with All Gases, including Oxygen  
Suitable for High Vacuum lubrication  
Dependable Long Lasting Lubrication  
Maximum Safety and Reliability

Datasheet link : [www.graisseperfluoree.com](http://www.graisseperfluoree.com)



#### TEMPERATURE RANGE

Continuous operation temperature  
Peak operating temperature

**-13 °F +482 °F**  
**-13 °F +500 °F**



#### LOAD BEARING CAPACITY

4 ball Test  
ASTM D 2266    Wear scar diameter  
ASTM D 2596    Weld load index

**0,52 mm**  
**800 daN**

TIMKEN Test  
ASTM D 2509  
Extreme pressure anti-wear

**50 lbs**



#### SPEED FACTOR

Rotation factor  
n.dm

**100 000 mm.min<sup>-1</sup>**

Suitable for low axial or linear speeds



#### SPECIFIC ENVIRONMENTAL FACTORS

EMCOR TEST    NF T 60.135    **Cotation 0-1**  
Completely insoluble in water and steam, including under  
pressurized conditions; in organic solvents - including chlorinated  
solvents; in strong acids -including nitric acids, strong bases, molten  
salt baths, chemical agents and products.  
Compatible with gaseous or liquid oxygen up to 123 bar  
in accordance with EN ISO 11114-3.  
Complete resistance to all gases.  
Resistance to nuclear radiation up to 70 Gy.

#### DESCRIPTION

Very low volatility in use.  
Very high-performance perfluorinated grease.  
Suitable for use at very high temperatures, completely resistant to  
oxidization. Resistant to and unaffected by most solvents, chemical  
products, acids and bases, salt water, steam, and pressurized water.  
Anti-corrosion, anti-wear. Completely resistant to shearing effects and  
shock. Compatible with all metals, plastic materials and elastomers. Can  
be used under a stream of liquid or gaseous oxygen, at up to 123 bar,  
and is inert to all gases.  
This grease is specifically designed for lifetime lubrication.

#### APPLICATIONS

Ejectors used in plastics processing, stripper plates, slides, cams  
and guide pins.  
Production and distribution of gas.  
Assembly and lubrication within the electromechanical and home  
appliances industries.  
Lubrication of measurement and precision equipment in the space  
and aviation industries.  
Compressors, electro-pneumatic and pneumatic equipment.  
Chemical Industry. Lubrication in nuclear radiation environments.  
Lubrication of machining centers, printing centers, bead columns.  
Electronics, medical, paramedic and pharmaceutical equipment.  
NEOLUBE PF 10 is used to protect against corrosion and oxidation  
on all surfaces in harsh chemical, highly acidic or alkaline  
atmospheres.



Lubrication of vacuum equipment



Safety lubrication for plastic injection ejectors



# **ASSEMBLY PASTES**

Technical Aerosol

Extreme Temperatures Grease

Aluminium Grease

Copper Grease

Nickel Grease

Paste for Assembly Set-up

Paste for Disassembly

Electro-conductrice Grease

Grease for Damaged Threads

Metallic Grease for Pitting Protection

Anti-Weld Grease

Boron Nitride Anti-seize Grease Composite

# NEOLUBE<sup>®</sup> METAL 900

## ALUMINIUM ANTI-SEIZE PASTE

High Temperature Grease  
Eases Assembly and Disassembly  
Resolves Pitting Problems  
Complies with specifications:  
MIL A 907 ED - STM 7411 A  
SECLF 216 - MIL A 907 E 80



Expiration date extended  
**5**  
Years

1 L Can  
Item Code  
515091

650 ml Aerosol  
Item Code  
514884

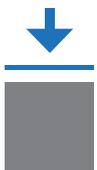
Datasheet link: [www.patealuminium.com](http://www.patealuminium.com)



### TEMPERATURE RANGE

Very high dropping point  
Continuous operation temperature  
Peak operating temperature

>482 °F  
-4 °F +1652 °F  
-4 °F +1832 °F



### LOAD BEARING CAPACITY

4 ball Test  
ASTM D 2266    Wear scar diameter  
ASTM D 2596    Weld load index

**0,60 mm**  
**4000 daN**

TIMKEN Test  
ASTM D 2509  
Extreme pressure, anti-wear, anti-corrosion

**40 lbs**



### SPEED FACTOR

Rotation factor  
n.d.m.

**80 000 mm.min<sup>-1</sup>**



### SPECIFIC ENVIRONMENTAL FACTORS

EMCOR TEST    NF T 60.135

**Rating 0**

### NLGI GRADE 2

### MIL A 907 E 80 PERFORMANCE

Tightening torque at 68 °F  
Loosening torque at 842 °F  
Loosening torque at 1382 °F

**80 Newton metre**  
**85 Newton metre**  
**100 Newton metre**

### DESCRIPTION

Facilitates assembly and enables disassembly of components and assemblies subjected to high temperatures or harsh conditions. Can be used and is effective when applied in a thin coat. Excellent fluid film capability in hydrodynamic lubrication. Enables lifetime surface treatment in hydrostatic lubrication. Product guaranteed Free of metal salts, metalloids and nitrites. Lubricant and anti-corrosion agent for use at high temperatures. Vibration resistant. Do not use on bearings or slow-moving rollers without frequently applying lubricant.

### APPLICATIONS

Screwed assemblies, including with the destruction of the thread geometry. Steam connections. Cable glands. Mechanical seals. Impregnation of sealing braids. Toric seals, O-rings. Sliding bearings on hot roll benders. Overheating valves. Turbines. Combustion engines. Compressors. Gas generators. Foundry ejectors. Aluminium extrusion (start up before coating). Zamak stripping. Curing mould seals. Furnace hinges. Ingot clamps. Bogie centre plates. Brake callipers. Point welding machine jaws.

### INSTRUCTIONS FOR USE

Shake the aerosol can vertically for a few moments once the ball in the can becomes detached. Degrease the mechanism to be lubricated as needed using NEUTRALENE<sup>®</sup> V200 aerosol. Spray at a distance of 15 to 25 cm depending on the size of the mechanism.



Assembly and lubrication of brake callipers



Lubrication of pressurised aluminium foundry ejectors

# NEOLUBE<sup>®</sup> METAL 1100

## ANTI-SEIZE PASTE VERY HIGH COPPER CONTENT

Withstands Very High Temperatures  
Eases Assembly and Disassembly  
Electrically Conductive Copper grease  
Resists Corrosion and Acidic Environments  
Complies with specifications  
MIL A 907 ED - STM 7411 A  
SECLF 216 - MIL A 907 E 80



430 ml Tube  
Item Code  
515057

1 L Can  
Item Code  
514660

650 ml Aerosol  
Item Code  
515048

Datasheet link: [www.patecuivre.com](http://www.patecuivre.com)

### DESCRIPTION

Facilitates static assemblies and dismantling of mechanisms subject to extremely high temperatures and harsh environments. Effective lubrication of assemblies while operational, subject to oscillations or shearing effects. Effective both in static use and in the presence of vibrations.

Can be used and is effective when applied in thin coats. Product guaranteed free of metallic salts, metalloids and nitrites. Lubricant and corrosion protection agent for use at high temperatures. Do not use on surface contacts that may exhibit catalytic coupling.

Do not use on bearings or slow-moving rollers without frequently applying lubricant.

### APPLICATIONS

Grease for drill stems, connectors, tools, down-the-hole hammer threads, stainless steel rods. Low, medium and high-voltage electrical contacts. Pantographs. Bogie centre plates. Screwed assemblies at very high temperatures. Cable glands. Mechanical seals. Impregnation of sealing braids. Toric seals. Sliding bearings on hot roll benders. Turbines. Combustion engines. Compressors. Gas generators. Foundry ejectors. Curing mould seals. Furnace hinges. Ingot clamps. Lubrication of live cables. Point welding machine jaws.

### INSTRUCTIONS FOR USE

Shake the aerosol can vertically for a few moments once the ball in the can becomes detached. Degrease parts prior to utilization of product, when necessary, with Neutralène<sup>®</sup> V 200 aerosol. Spray at a distance of 15 to 25 cm depending on the size of the mechanism to be lubricated.



### TEMPERATURE RANGE

Very high dropping point  
Continuous operation temperature  
Peak operating temperature

>482 °F  
-22 °F +2012 °F  
-22 °F +2012 °F



### LOAD BEARING CAPACITY

4 Ball Test  
ASTM D 2266  
ASTM D 2596  
4850 daN  
Wear scar diameter  
Weld load index

0,50 mm  
4850 daN

TIMKEN Test  
ASTM D 2509  
Extreme pressure, anti-wear, anti-corrosion

45 lbs



### SPEED FACTOR

Rotation factor  
n.d.m.

80 000 mm.min<sup>-1</sup>



### SPECIFIC ENVIRONMENTAL FACTORS

EMCOR TEST NF T 60.135

Rating 0

### NLGI Grade 2

### MIL A 907 E 80 PERFORMANCE

Tightening torque at 68 °F  
Loosening torque at 842 °F  
Loosening torque at 1382 °F

80 Newton metre  
85 Newton metre  
95 Newton metre



Preventive maintenance is always better than corrective maintenance.



Datasheet link : [www.patenickel.com](http://www.patenickel.com)

# NEOLUBE<sup>®</sup> METAL 1200

## ANTI-SEIZE NICKEL PASTE

Grease for Extreme Temperatures  
 Speeds Assembly, Mounting and Demounting  
 HydroStatic lubricant for parts subject to Strong Vibration.  
 HydroDynamic lubricant for Slow-moving Parts  
 Steel-working, Casting, Forging  
 Complies with Specifications:  
 MIL A 907 ED - STM 7411 A  
 SECLF 216 - MIL A 907 E 80



### TEMPERATURE RANGE

Very high dropping point  
 Continuous operation temperature  
 Peak operating temperature

374 °F  
 -4 °F +2192 °F  
 -4 °F +2372 °F



### LOAD BEARING CAPACITY

4 ball Test  
 ASTM D 2266    Wear scar diameter  
 ASTM D 2596    Weld load index

0,50 mm  
 4800 daN

TIMKEN Test  
 ASTM D 2509  
 Extreme pressure, anti-wear

45 lbs



### SPEED FACTOR

Rotation factor  
 n<sub>dm</sub>

80 000 mm.min<sup>-1</sup>



### SPECIFIC ENVIRONMENTAL FACTORS

EMCOR TEST    N F T 60.135

Rating 1

### NLGI GRADE 2

### MIL A 907 E 80 PERFORMANCE

Tightening torque at 68 °F  
 Loosening torque at 842 °F  
 Loosening torque at 1382 °F

80 Newton metre  
 90 Newton metre  
 100 Newton metre

### DESCRIPTION

Very high performance anti-seize nickel paste. The interaction between the nickel and the other loads enables the avoidance of catalytic coupling between Fe/Cu contacts; or as can be seen with copper anti-seize agents, in Fe/Fe contacts. This product can thus be used risk-free on all ferrous metals, including chrome. Product guaranteed free of metalloids and nitrites. Effective in dynamic use, in static use and in the presence of vibrations. Do not use on bearings or slow-moving rollers without frequently applying lubricant. Allows you to obtain results at very high temperatures of up to 2192 °F when protection limits are in place. Complies with MIL A 907 E/D, ST7411A and SECLF 216 specifications.

### APPLICATIONS

NEOLUBE<sup>®</sup> METAL 1200 grease is used for the same applications as the METAL 900 aluminium and METAL 1100 copper greases: resolution to problems due to pitting and surface oxidation caused by catalytic coupling.

### INSTRUCTIONS FOR USE

Shake the aerosol can vertically for a few moments once the ball in the can becomes detached. Degrease parts prior to utilization of product, when necessary, with Neutralène<sup>®</sup> V 200 aerosol. Spray at a distance of 15 to 25 cm depending on the size of the mechanism to be lubricated.



Lubrication of slab trains

# NEOLUBE<sup>®</sup> CERAM 900

**HIGH TEMPERATURE  
CERAMIC PASTE  
LUBRICANT**

**HIGH CONTENT OF  
FINELY PULVERIZED  
CERAMIC PARTICLES  
AND SOLID LUBRICANTS  
ANTI-SEIZE COMPOSITE COMPOUND**



Expiration  
date  
extended  
**5**  
Years

1 kg Can  
Item Code  
516200

650 ml Aerosol  
Item Code  
516346

Datasheet Link: [www.pateblancheceramique.com](http://www.pateblancheceramique.com)

**HIGH CONTENT OF FINELY-GROUND HIGH-GRADE  
CERAMIC AND SOLID LUBRICANTS: 44 %**

**EXTREMELY LOW FRICTION COEFFICIENT  
EXCEPTIONAL ANTI-SEIZE  
HIGHLY EFFECTIVE FILM COATING**

**PROTECTION AGAINST OXYDATION, FRETTING AND PITTING**

**ELIMINATES PROBLEMS LINKED TO  
IRON/NON-IRON-CATALYZED CROSS COUPLING REACTIONS  
LOW THERMAL AND ELECTRICAL CONDUCTIVITY  
NON-FLAMMABLE IN USE**

**IMPROVED CLEANLINESS FOR INDUSTRIAL MAINTENANCE  
AND MACHINERY MANUFACTURING**

**-13 °F +1652 °F  
IN OXYDIZING ATMOSPHERES  
-13 °F +2192 °F  
IN NEUTRAL ATSMOSPHERES**



**CERAM 900** is formulated to withstand extreme heat, limited up to the point of ductility (malleability) of the metal, including stainless steel.

Technical ceramic technology ( $\text{Si}_3\text{N}_4$ )  
Boron nitride nanopowder (Hex.BN)  
Tungsten disulphide ( $\text{WS}_2$ )  
White lubricant compound for  
Dynamic lubrication with High Heat Capacity  
Clean Anti-seize and Mold release  
Resists Coupling Reactions  
Non-electrically conductive

## DESCRIPTION

Excellent machinability and high heat capacity; eases assembly and disassembly of parts in harsh environments. Useable and efficient coating in thin layers.

Provides superior film coverage in static lubrication.

Excellent lifespan in static surface treatment.

Free of metal salts, metalloids, or nitrites.

Prevents corrosion at high temperatures.

Efficient in static applications as well as in heavy vibration.

Frequent reapplication of lubricant recommended on slow-speed bearings or rollers.

## APPLICATIONS

Plastic molding, injection molds, guides and pillar supports.

Injection units exposed to high temperature 752 °F.

Stainless steel against stainless steel contact assemblies.

Drill chucks. Assembly and mounting of household products, ovens and gas appliances.

ABS Antilock brake systems. Guaranteed Metal-Free.

Screwed connecton assemblies, including those with thread damage.

Steam connections. Cable glands. Mechanical seals.

Impregnation of sealing braids. O-ring or toric seals.

Slide bearings on hot bending machines. Valves for overheating machines.

Turbines. Combustion engines. Compressors. Gas generators. Foundry ejector pins. Aluminium extrusion (prior to die coating.) Removal of Zamak casting.

Vulcanised mold closing mechanism. Oven door hinges.

## INSTRUCTIONS FOR USE

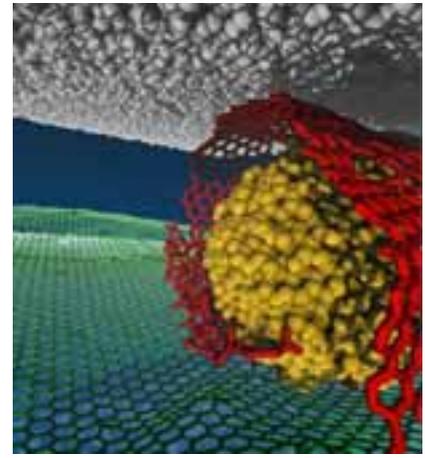
Apply in thin layers on clean surfaces. When necessary, degrease components prior to treatment with Neutralène® V200 aerosol spray. Spray from 15 to 25 cm depending on the component dimensions.

Jacques P. TARDIF



Technical Director

## NEAR ZERO-QUANTUM FRICTION



A composite is created by the combination of two or more constituent materials that possess significantly different physical or chemical properties resulting in the production of a new material with characteristics different from the original individual components.

Composite materials for industrial use have been in existence for a long time. Some examples include reinforced concrete which was created in 1848 and reinforced liquid polyester which dates from the 1950's.

Today, the most familiar composites include epoxy, polyester or polyurethane based matrices, as well as metal matrix composites. The SAFRAN Group owns 16,000 patents, obtained at the rate of 450 registered patents each year. Two examples include; one, for aeronautical fasteners which uses talc - appreciated for its qualities since ancient times, in combination with phosphorus and nickel, and another patent for a Ni-Ag-MoS<sub>2</sub> coating that is resistant to liquid hydrogen at -423,4 °F.

Fluid mechanics focuses on achieving the lowest possible drag coefficients in water or air, but tribology developers target lubricants with coefficients of friction as close as possible to 0, regardless of the substrate, speed, load, temperature, or environment. Though solid lubricants could be used, none of them, on their own, have the performance characteristics required to satisfy every possible scenario. The structure, adsorption (interaction with surfaces), and the physical-chemical properties all play an essential, but not definitive, role.

### A few examples :

#### **Boron nitride**

Cubic Boron Nitride (CBN), as well as diamond, is known as an excellent abrasive material used in manufacturing wheels for grinding. In its hexagonal form (h-BN), it is a solid lubricant. It has a mediocre coefficient of static or kinetic friction, starting from 0.4. Both forms of boron nitride have a very high temperature resistance: 1652 °F in oxidising atmospheres, 2192 °F in neutral atmospheres.

#### **Mos<sub>2</sub>**

Due to a remarkable affinity for metals, Mos<sub>2</sub> boomed in the 1960s. In lamellar form, with an initial coefficient of friction of 0.04 (a factor of 10 lower than that of h-BN) and temperature stability from -292 °F to +842 °F in air, it degrades in the presence of chlorine, bases, or oxidants, and may corrode surfaces.

#### **PTFE**

At 0.2, its friction coefficient is very low. It has exceptional chemical inertia, but relatively poor resistance to high temperatures. At 500 °F and above, it releases hydrofluoric acid. This limits its use to medium-temperature applications.

Note that graphite has an initial COF of 0.1, that of graphite fluoride (C<sub>fxn</sub>) is 0.1, and that of tungsten disulphide (WS<sub>2</sub>) is 0.03. The strive for a lower coefficient of friction, wear, and energy is an ongoing effort.

A great deal of research is being conducted into high-tech applications of new solid lubricants such as fullerenes C<sub>60</sub>, C<sub>540</sub>, NDPs, graphene nanoscroll, and DLC (diamond-like carbon with a COF of 0.001).

A lowered coefficient of friction was one of the keys in winning the SHELL marathon, which holds the record of 1017 km for 1 L of fuel. This event initiated research which still continues today. The numerous professors and students who participated in the research deserve high praise. Any doubts about the importance and marketability of these achievements can be dismissed when we think of Eric Tabarly, who, like me, holds a passion for the sea, and whose inventions have now become a part of our everyday lives.



# APPLICATION SPECIFIC OIL LUBRICANTS

Technical Aerosols

Food contact Oil lubricant for the Food Industry

Codex Oil lubricant for the Pharmaceutical Industry

Odorless Oil for Air-circuit Systems

Precision Oil lubricant for Data Transmission Systems

Extreme Pressure, Anti-wear Oil for Power Transmission Systems

Cable Lubricants

Chain Lubricants

Lubricants for High Speed Applications

Sugar Dissolving Fluid for the Food Industry

Bitumineux seal coating for Lifting and Public Works

Cable Pulling Oil lubricant

# APPLICATION SPECIFIC OIL LUBRICANTS



Datasheet link: [www.huileblanchensf.com](http://www.huileblanchensf.com)

**-4 °F +392 °F**

## DESCRIPTION

Fluid designed for the lubrication of precision mechanisms operating under low loads, at low speeds but with a high number of cycles. Suitable for use on all metals, plastics and elastomers. Odourless, tasteless and does not stain.

Totally inert, chemically and biologically. Antioxidant, does not dry out or degrade. Water-resistant.

Apolar and hydrophobic. Electrically insulating. Assembly, lubrication, mold release and extrusion operations. Non-adhesive.

**PRODUCT APPROVED FOR THE FOOD INDUSTRY  
IN ACCORDANCE WITH PRINCIPLES OF  
THE HAZARD ANALYSIS AND CRITICAL CONTROL POINT  
(HACCP) SYSTEM ADOPTED BY  
THE CODEX ALIMENTARIUS COMMISSION - ISO 22 000.**



Lubrication of crimpers and suspension conveyors for PET bottles in the food industry

## NEOLUBE® F 350

### WHITE PRECISION LUBRICATING OIL

CERTIFIED NSF H1  
for the FOOD INDUSTRY  
CODEX Lubricant for the  
PHARMACEUTICAL INDUSTRY  
Colorless, Odorless, Tasteless  
Organoleptically Neutral  
Textile, Packaging, Cosmetics  
Perfume Industries  
Lubrication of Transmissions  
(Information and Power).  
Compatible with all metals  
Thermosetting plastics and Rubber

## APPLICATIONS

Lubrication of SULZER textile machinery. Sizing agent for threads and yarns. Lubrication of bobbins, winding frames, thread guides. Assembly of O-rings, dynamic or static gaskets. Assembly of water tank gaskets. Lubrication of elastomers and rubber components. Mold release for light alloy applications. Assembly of rubber seals on metal cores. Glide of pneumatiques on conveyors. Internal lubrication of cables. Lubrication of Nylon rope. Lubrication of telescopic mechanisms. Lubrication of cams and plungers in the clock and watch industry. Lubrication of photographic, reprographic and office equipment. Die-cutting and drop forging of precision parts. Lubrication of clamps, riveted shafts, threaded assemblies. Fastenings, shafts, linkage, shutter guide rails, roller blinds. Locks, door hinges, other hinges. Lubrication of surgical instruments and hospital equipment. Demolding of compressed powders. Manufacture of medication and encapsulation. Demolding of foodstuffs, such as bakery products. Lubrication of precision mechanisms and household appliances. Treatment of air filters. Protection of low voltage terminals and contacts. Lubrication of meters, power switches and, relays. Lubrication of pulleys, sheaves and zippers. Lubrication of ball bearings (which cannot be greased), circuit-breakers and High Tension Power Transformers.

## INSTRUCTIONS FOR USE

Shake the aerosol can vertically for a few moments. Spray from a distance of 15 to 25 cm from the surfaces to be treated, depending on their dimensions. This aerosol spray can be used at any angle.



H1 - N° 152591  
Food Grade Certified



1 L Bottle  
Item Code  
515556

Expiration  
date  
extended  
**4**  
Years

## AIRLINE AL 110

### LUBRICANT FOR COMPRESSED AIR

Lubrication of Air Circuits  
Neutral Odour and Taste  
NSF H1 certified for the Food industry  
Codex Oil for Industrial use  
Pharmaceutical and Cosmetics Industries  
Anti-Fogging Agent  
Prevents Fretting and Sticking

### DESCRIPTION

Compressed Air distribution systems, tanks and displacement pumps.  
Lubricant for pneumatic tools and devices that run on compressed air.  
Totally odorless.  
No dispersion of odor possible.  
Improves the output of mechanisms and prevents fretting and sticking.  
Suitable viscosity.  
No risk of oil fogging or misting.  
Recommended for lubrication of diving gear and valve components after regulatory testing.

Datasheet link: [www.lubrifiantaircomprime.com](http://www.lubrifiantaircomprime.com)



CODEX lubricant  
Pharmacopée France 10 th edition Compliant  
US Pharmacopoeia  
British Pharmacopoeia BP 2001  
EEC Regulation 2011/10/CE  
For use in the Medical, Pharmaceutical and Cosmetics Industry



H1 - N° 154976  
Food Grade Certified

## NEOLUBE<sup>®</sup> SOL 4



### FOOD GRADE SUGAR DISSOLVING FLUID

Lubricates, Cleans, and Prevents Sticking  
For Preventive and Curative Treatment

#### APPLICATIONS

Sugar refining and packaging, spinners, centrifuges, belt or chain conveyors, bearings, packaging machines, stick pack and flow pack packaging, twist wrappers, bagging machines. Industrial or craft confectionery, pastries, chocolates, sugared drinks, syrups, manufacturing of nougat, macaroons, lollipops, chewing gum, chocolate, mold processing, coaters, dispensing machines and conveyors, slicers, guillotines, bagging machines, sealing machines. Multi-head weighers and scales.

#### INSTRUCTIONS FOR USE

Can be used pure or diluted with water, depending on the amount of deposits. Apply with a rag, brush or sponge or spray directly onto the surface of the mechanism to be treated.

Datasheet link : [www.huiledissolvantesucre.com](http://www.huiledissolvantesucre.com)

**DISSOLVES SUGAR CRYSTALS,  
CANDY AND STARCH RESIDUES**

**PROTECTS AGAINST THE REDISTRIBUTION OF DEPOSITS**

**REDUCES DOWN-TIME IN PRODUCTION**

**ASSURES CONSISTANT WEIGHT MEASUREMENTS**

**PRODUCT APPROVED FOR THE FOOD INDUSTRY  
IN ACCORDANCE WITH PRINCIPLES OF  
THE HAZARD ANALYSIS AND CRITICAL CONTROL POINT  
(HACCP) SYSTEM ADOPTED BY  
THE CODEX ALIMENTARIUS COMMISSION - ISO 22 000.**

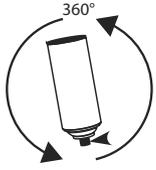


Cleaning of ice-cream dispensing nozzles  
ensures constant dispensing rate and weight.



Effective treatment for sugar cane crushing cylinders

# APPLICATION SPECIFIC OIL LUBRICANTS



Expiration date extended

**5**

Years



650 ml Aerosol  
Item Code  
516276



20 L Jerrycan  
Code Article  
515813

Datasheet link: [www.lubrifiantchaines.com](http://www.lubrifiantchaines.com)

## NEOLUBE® T 20

### ADHESIVE LUBRICANT SPECIALLY FORMULATED FOR TRANSMISSION CHAINES

Low or High Speed, Open Devices  
Extreme Pressure, Anti-Wear  
Reistant to Throw-Off  
Water repellent, Water-resistant

**GUARANTED HFC 134A GREENHOUSE GASES FREE  
DIRECTIVE F GAZ 517.2014**

#### DESCRIPTION

Foaming lubricant with a very high viscosity index, designed to offer excellent penetration and adhesive qualities. Specially recommended for the lubrication of all types of chains: roller, long pitch, API type roller-less, hollow rivet, leaf chains and most all rapid or slow moving open mechanisms. Excellent penetration, even to parts which prove difficult for standard lubricants. Reduces leaks, noise, vibration and wear. Highly resistant to water, salt water, hot water and steam, providing superb anti-corrosion protection. Foaming action prevents oil drips and spatter. Extremely neutral and chemically inert. High stability. Reduces operating noise of roller drive chains, facilitates mounting. Regulates operation of toothed chain transmissions, reducing vibration.

To obtain the best possible performance, a chain lubricant must be applied to cleaned and degreased surfaces. Use iBiotec NEUTRALENE V 200 in aerosol, which combines high cleaning and degreasing power along with optimum mechanical action.

#### APPLICATIONS

Lubrication of transmission, handling and lifting chains. Agricultural chains. Lubrication of open mechanisms, sprockets, gears, pinions and endless screws. Mechanical components subjected to water spray. Competition motorcycle chain lubricant.



#### TEMPERATURE RANGE

Very high dropping point  
Cold start torque at -4 °F  
ASTM D 1478-63

**-22 °F +284 °F**  
**12 N.cm**



#### LOAD BEARING CAPACITY

SHELL 4 Ball Test ISO 20.623  
Wear scar diameter  
Weld load index

**0,67 mm**  
**3500 daN**

SRV Test ASTM D 5707

**0,14**



#### SPEED FACTOR

Low or high speed chains

**0.5 m.sec**



#### SPECIFIC ENVIRONMENTAL FACTORS

Washout resistance at 176 °F  
ASTM D 1264

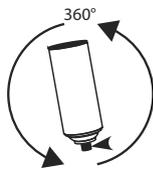
Effective lubrication in the presence of moisture, water spray, corrosive environments, weak acids and bases and dusty or harsh environments.

**< 1 %  
of weight**



2018 Le Mans 24 Hours Motos Race  
FIM EWC BMW Team LRP  
Endurance World Championship  
Lubrication of the chain with Neolube T 20  
120 links - 1m20 - Axial speed 14,000 rpm

# APPLICATION SPECIFIC OIL LUBRICANTS



Expiration date extended  
**5**  
Years



650 ml Aerosol  
Item Code 516247

Datasheet link: [www.lubrifiantchaînealimentaire.com](http://www.lubrifiantchaînealimentaire.com)

## NEOLUBE<sup>®</sup> CT 20 AL

### PENETRATING ADHESIVE LUBRIFIANT SAFE FOR FOOD CONTACT

High and Low Speeds  
Open Devices  
Extreme pressure, Anti-wear  
Clings to reduce sling-off  
and withstand Centrifugal Force  
Water-repellent  
Highly resistant to steam and water

**GUARANTEED HFC 134A GREENHOUSE GASES FREE  
DIRECTIVE F GAZ 517.2014**

#### DESCRIPTION

Foaming chain lubricant with a very high viscosity index. Penetrates deep inside the chain to form a highly adhesive, protective film.

Specially formulated for the lubrication of all types of chains: roller, long pitch, API type roller-less, hollow rivet, leaf chains and most fast or slow moving open mechanisms.

The composition of this product enables penetration into difficult to access parts and mechanism, significantly reducing wear.

Excellent corrosive protection and water resistance, including salt water, hot water and steam. Grease will not break down, fly off or wash away with water or steam.

Foaming action prevents oil drips and spatter during spraying.

Extremely neutral and chemically inert. High stability.

Reduces operating noise of roller drive chains, facilitates their mounting.

Smooths the running of toothed chain transmissions, reducing vibration.

To obtain the best possible performance, a chain lubricant must be applied to cleaned and degreased surfaces. Use iBiotec NEUTRALENE V 200 aerosol spray, which combines high cleaning and degreasing power and ensures optimum mechanical action.

#### APPLICATIONS

Lubrication of transmission, handling and lifting chains. Agricultural chains.

Lubrication open mechanisms, toothed gears, sprockets, bevel and worm gears.

All mechanical components subjected to water spray.



#### TEMPERATURE RANGE

Continuous operation temperature  
Cold start torque at -4 °F  
ASTM D 1478-63

**-22 °F +284 °F  
10 N.cm**



#### RÉSISTANCE À LA CHARGE

SHELL 4 ball Test ISO 20.623  
Wear scar diameter  
Weld load index

**0,70 mm  
3500 daN**

SRV Test ASTM D 5707

**0,13**



#### SPEED FACTOR

Chaînes à faibles ou très grandes vitesses

**0.45 m.sec**



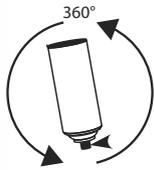
#### SPECIFIC ENVIRONMENTAL FACTORS

Washout resistance at 176 °F  
ASTM D 1264

Effective lubrication in the presence of moisture, water spray, corrosive environments, weak acids and bases and dusty or harsh environments.

**inf. to 1 %  
of mass**





Datasheet Link : [www.opengearlubricant.com](http://www.opengearlubricant.com)

## NEOLUBE® OPEN GEAR

### BITUMINOUS COATING, HIGHLY ADHESIVE

Lubricant designed for Metal Cables  
Power Transfer and Lifting Chains,  
Open Gears  
Extreme Pressure, Anti-Wear  
Completely Water Resistant  
Submerged Lubrication

**GUARANTEED FREE OF METHYLENE CHLORIDE**

#### DESCRIPTION

Penetrating and highly adhesive complex fluid formulated for the lubrication of high-powered transmissions systems, subject to vibration and stress.

Protects against corrosion.

Resist dusty environments or water spray; can be used in a marine environment.

Highly loaded with solid anti-wear and anti-corrosion additives, provides optimum lubrication in extreme cases.

#### APPLICATIONS

Port installations and public works equipment, chains, cables, slewing rings, capstans, and headstocks.

Dams, canals and flow control structures, lubrication of lifting chains, hoists, machinery.

Hydroelectric production.

Cement mills, mineral and coal extraction, conveyors.

Smelting, transporters.

Handling equipment, bridge cranes, gear trains, fifth wheel couplings.

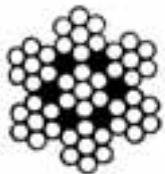
Pre-impregnation and weaving of cables.

Mounting and lubrication of roller, riveted or API chains.

Fairground equipment.

#### DIRECTIONS FOR USE

Shake the aerosol can vertically for a few moments after the ball in the can becomes detached. Spray at a distance of 15 to 20 cm.



Ideal for chaines of all sorts, including those used for pulling, lifting, extraction, traction and for the transport of persons or materials. Efficient for chains subject to numerous constraints and friction. Offers maximum wear protection under extreme operating conditions such as vibrations, scuffing, oscillating motions and shock loads, where metal stretching occurs.



When multi-threaded, the number of bundles reduces the area of contact with pulleys and drums. Anti-rotation cables limit torsion problems.



Internal lubrication can be provided by the manufacturer. Contrary to accepted ideas, internal lubricants are compatible with external lubricants most of the time.



NEOLUBE® OPEN GEAR is specifically formulated with anti-wear additives that drastically reduce cable wear and also target the primary source of winding problems; pulley grooves, despite curvature radius or wear.

NEOLUBE® OPEN GEAR is highly resistant to extreme pressure and reduces the risks of deformation of the cable during sudden loading. It contains microscopic lubricant particles that absorb, ensure and secure lubrication of all bundle and wire surfaces.

NEOLUBE® OPEN GEAR is specifically formulated with anti-wear additives that provide protection from harsh external environments: cold, humidity, water spray, saline environments and intermittent or permanent immersion. It also provides long-lasting anti-corrosion protection for exterior storage of cables.



Lubrication of tow cables, freight lifts, elevators and water navigation locks.

## ELECTROLUB 770

### ELECTRICAL CABLE PULLING LUBRICANT

Suitable for pulling a wide variety of cable types:  
Flexible, Rigid or Bendable Conduits  
Efficient for All Temperature ranges

REDUCE THE RISK OF SCRAPING, TWISTING  
AND DAMAGING CABLE.

IMPROVE THE EASE OF PULL.

#### DESCRIPTION

ELECTROLUB 770 is a complex compound specifically developed for pulling electrical cables and wires in all conduits. It was formulated to facilitate lengthy pulling in multiple diameter conduits and tight curves.

ELECTROLUB 770 is stable and inerte in contact with plastic material and elastomers used in isolating cable jackets and conduits. The specially designed needle tip allows for precision deposit of the product into the entry base of the conduit.

Provides superior friction reduction, even in humid environments and exposure to water.

ELECTROLUB 770 can also be used outside in temperatures as low as -4 °F, with no drop in performance.

Adheres perfectly to cables even in wet weather conditions and continues to lubricate the cable jacket even when ducts are flooded. Optimum sliding coefficient.

Can be used for all conduits: rigid, bendable and flexible conduits.  
French standards: ICTA, ICA, ICTL

Meets industry standards for ASTM 4289.83: totally neutral, compatible for use with elastomer conduits:

PE, EPR, Hypalon, PE chlorosulfonés, PER, PVC.

Silicone rubber, polyolefins, PVA, LDPE

Complies with the ICC P1210/D10 specifications (Insulated Conductor Committee IEEE 2015)

Suitable for all temperature ranges for wires, cables and conduits.

Can be used on old networks even if they are bent or slightly scratched.



Datasheet link: [www.lubtiragecables.com](http://www.lubtiragecables.com)



**ELECTROLUB 770**  
PULLING LUBRICATION FOR ELECTRONIC CABLES

**EASY TO APPLY + VERSATILE + EFFICIENT  
= TIME SAVING**

# MACHINING FLUIDS

Industrial Aerosols

Straight/Neat Oils

Drilling, Tapping, Threading Fluids

Special Cutting Oils for Extra-hard Alloys

Special Cutting Oils for Light Alloys

Micro-lubricating Fluids

Fluid for Magnesium Machining

Bio-degradable Vegetable-based Fluid

Sulfur-free and Chlorine-free Cutting Oil

Soluble Cutting Oil

Emulsions, pseudo-solutions, true solutions

Multi-machining fluids, multi-metals

Nanolubrication-enhanced Soluble Oil

Bactericide-Free Soluble Oil

The listing of products featured in this catalogue is non-exhaustive. Since 1970, iBiotec develops, produces and markets a complete range of lubricants intended for machining and swarf removal.



## NO WARNING LABEL REQUIRED

European Regulation CLP 1272/2008  
SGH - GHS Regulations



200 kg Drum  
Item Code  
514888



20 kg Jerrycan  
Item Code  
514889



# ETERNA<sup>®</sup> 3000

## MULTI-PURPOSE SOLUBLE CUTTING OIL NANOLUBE - ALL METALS BACTERICIDE-FREE

### IDEAL FOR

Linear or cylindrical grinding,  
breaking-in (honing), turning,  
screw-cutting, lathe operations, milling,  
boring, sawing, hobbing,  
planing, broaching  
drilling, threading, tapping,  
sharpening and polishing.

### SUITABLE MATERIALS

Steel, stainless steel, Inconel, Monel,  
Carbon fiber (CFRP), aluminium and aluminum  
alloys (with the exception of aluminium-silicon),  
copper and copper alloys.

Datasheet link : [www.huilesoluble.com](http://www.huilesoluble.com)

**Ideal for all sorts of  
machining operations**

**Extends life span of tools**

**Reduces Cutting Oil  
Consumption**

**Improves condition  
of surfaces**

**Provides full protection of  
machined parts**

**Eliminates  
degreasing operations**

**Reduces  
manufacturing costs**

**Prolongs oil-change intervals**

**Regenerates through  
Ultra-filtration**

**Contaminant-free Swarf  
for Recycling  
by Melting**

**Offers full  
environmental  
protection**

**Reduces the costs  
of product and waste  
management**

**Powerful Cleaner**

**PH Stable**

**Anti-foaming  
Anti-Abrasive**

**Harmless to  
operators and handlers**

**Clean glass,  
floors and machines.**

**Facilitates release of other oils**

**Excellent settling  
of metallic deposits**

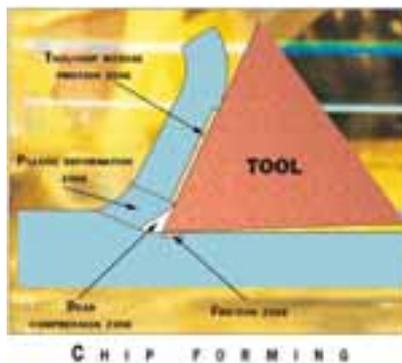
**Provides for Easier  
Maintenance**

# ETERNA® 3000 The DEFINITIVE SOLUTION FOR TROUBLE-SHOOTING AND MANAGEMENT OF OIL BATHS

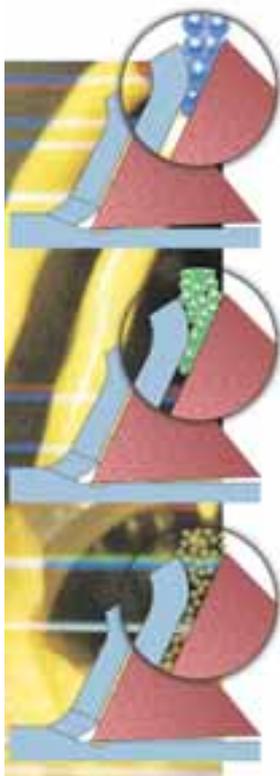
A cutting fluid is essentially used for four reasons

- 1 Cool
  - 2 Remove Chips
  - 3 Lubricate, decrease friction
  - 4 Protect machined parts against corrosion
- TO MAKE 1 AND 3 WORK EFFICIENTLY

**THE LUBRICANT MUST PENETRATE FULLY BETWEEN THE CHIP AND THE TOOL.**  
The cutting fluid must have an exceptional wetting power to allow full penetration via capillary action at the interface.



Tool wear results from very severe mechanical loads, aggravated by heat, and occurs at the zones of swarf/tool contact and tool/part contact.



Crowding of emulsion molecules at tool-swarf interface prevents correct penetration.

Though micro-emulsion molecules provide less congestion, there's still a lack of sufficient penetration at the tool-swarf zone.

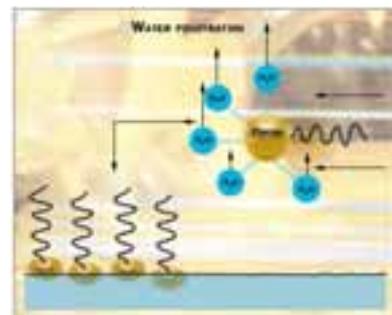
**ETERNA® 3000** provides infinitely fine molecular crowding thereby allowing full penetration between the tool and the swarf. This is the principle of Nanolubrication.

## ETERNA® 3000

### PENETRATES BETWEEN TOOL INTERFACES

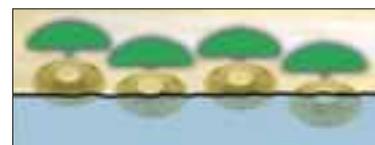
Penetration by capillary effect is related to the surface tension of the fluid and the crowding of molecular particles.

**ETERNA® 3000** exhibits a high reactivity with machined surfaces.



The **ETERNA® 3000** active molecules transport water to the interface.

**Less crowding results in less surface tension** and water evaporation allows for optimal cooling.



**ETERNA® 3000** molecules react simultaneously and are vigorously adsorbed by the machined surfaces, thereby considerably reducing the friction coefficient.

Additionally, **ETERNA® 3000** molecules provide excellent protection against corrosion.

## PRECISTATIC 200

### SOLUBLE MACHINING FLUID

**BIOSTABLE MICRO-EMULSION**  
**ISO CLASSIFICATION: MAF**  
**GUARANTEED CHLORINE-FREE,**  
**SULPHUR-FREE,**  
**NITRITE-FREE**



200 kg Drum  
Item code Article  
516875



20 kg Jerrycan  
Item code Article  
516859



5 L Jerrycan  
Item code Article  
516876

Datasheet link : [www.huilesolublebiostable.com](http://www.huilesolublebiostable.com)

### APPLICATIONS

It may be used in turning, boring, and all current machining work on traditional or CNC machines, suitable for all metals such as cast iron, steel, aluminium alloys.

This product will not stain sensitive metals.

With a chlorine-free and active sulphur-free formulation, it can be used on titanium and its alloys.

### DESCRIPTION

High-technicality soluble oil that easily allows a transparent micro-emulsion by mixing with water.

This biostable formulation does not contain any nutrients allowing the growth of microbes.

The mixtures are easily made as soluble oil in water or water in soluble oil at any ambient temperature to obtain perfectly stable micro-emulsions.

The product obtained gives maximum corrosion protection to machined parts, including cast iron, tools, and machine frames, and their static parts.

The product does not cause clogging or scrubbing of the slides and guides, after drying the film during restart (cold machines) even at high usage rates, in extremely difficult operations or on extra hard metals.

Its high performance allows its use on all metals and for all chip removal work including grinding.

No irritating odour, unlike traditional products used during high speed milling operations.

This product offers total stability even in hard water. It does not foam in soft water.



# ETERNA® 3001 R



20 kg Jerrycan  
Item Code  
516316



5 kg can  
Item Code  
516317

Datasheet link : [www.huilerectification.com](http://www.huilerectification.com)



Grinding – saw blade teeth



Grinding of teeth or correction of gear tooth shapes



Grinding – cylindrical or conical rollers for bearings

## NEXT GENERATION NON-ALLERGENIC MACHINING FLUID SPECIALLY FORMULATED FOR GRINDING

The Best Solution for Grinding  
Free of bactericides

Soluble oil non-allergenic, non-irritating,  
Free of borons and nitrates

Resists foaming even in high-powered  
Cyclonic separators

Assures superior surface conditions  
Surface Roughness less than 0.1 Ra

Cleaning power for all types of  
Abrasive Grinding Wheels  
Al<sub>2</sub>O<sub>3</sub> CBN Diamond

Grinding, Honing and Sharpening  
Micro-finishing for all materials  
Classic Stainless Steel, Tempered Steel  
Chromium Steel  
Carbide and Ceramic

Suitable for High Speed Grinding applications.  
Allows for increased  
Cylindrical Grinding cutting speeds.

### SUITABLE FOR ALL GRINDING PROCESSES

External and Internal Cylindrical Grinding  
Surface grinding, Cylindrical grinding  
Creep-feed grinding  
Centerless and Plunge cut.  
Tapered Cup. Form Grinding  
High speed rough grinding to low speed final polishing.  
Micro-finishing with continuous cup wheel grinding.  
Honing and Sharpening.

Grinding of threads, hypodermic needle, ball-bearings, tracks, rods,  
gear teeth, crankshafts, camshafts.  
Rolling mill cylinders  
Injection molding, ultra-polished and mirror finished.  
Guides, ejectors.  
Saw blades.

### RECOMMENDED MEASUREMENTS

ETERNA® 3001 R can be used at 1.5% to 2.5% in water, regardless of water hardness.

NB: the refractometry correction coefficient of ETERNA® 3001 R is 1.5. A reading of 4 % with a refractometer shall determine a bath concentration of 6 %.

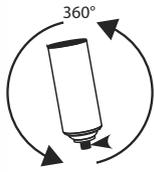
ETERNA® 3001 R has passed the HERBERT anti-corrosion test (1% in water). The machined parts are protected from corrosion and they do not require lubrication.

## NEOLUBE<sup>®</sup> HC 2000

Expiration  
date  
extended  
**5**  
Years



650 ml Aerosol  
Item Code  
516273



200 kg Drum  
Item Code  
514869



5 kg Jerrycan  
Item Code  
514885

Datasheet link: [www.percagetaradage.com](http://www.percagetaradage.com)

### CUTTING OIL FOR ALL HARD-TO-MACHINE METALS

Extreme Pressure Lubricant,  
Anti-Weld, Anti-Wear  
For Milling and Drilling  
Tapping and Threading of high-alloy steel,  
chrome steel, heat-treated steels  
Through and Blind holes  
Exceptional Tool Performance  
Rolling, bending, spinning,  
cutting and stamping.  
Less frequent sharpening and polishing.



#### DESCRIPTION

Effective friction reduction, anti-weld lubricant with extra-resistant film coverage. Allows for quick and easy evacuation of chips, swarf, and debris. Suitable for all drilling sizes, including very small diameters. Allows deep boring operations in hard metals. Useful in swarf removal but also in thread formation by tapping tool. Moreover, this product gives remarkable results in dimpling processes prior to threading, in rolling and in bending of steel tubes, and in other techniques of forming steel and stainless steel materials. This product notably extends the life of taps and drill bits.

#### APPLICATIONS

Manual threading. Thread forming, rolling, tap and die cutting and formation by tapping tools.  
Drilling operations. Boring and deep boring.  
Manual and semi-automatic tapping.  
Spinning, centering, folding, punching.

#### DIRECTIONS FOR USE

Shake the aerosol for a few seconds. Moderately spray the drill bits, taps, or thread dies before operation begins.  
In the case of manual threading, spray directly on tubes or round profiles.



## MICROCHEM<sup>®</sup> 35

### OIL FOR LUBRICATION AND MICRO-LUBRICATION

High "EP" Extreme Pressure characteristics  
For Aluminum Metal Forming Operations  
Including Aluminum Alloys (e.g. Silumin)  
Sulfur-Free Chlorine-Free  
Anti-wear, Non-Staining

#### METAL-WORKING

- Lathing
- Circular and bond sawing
- Drilling
- Threading
- Turning
- Milling

#### FORMING

- Stamping
- Chambering
- Punching
- Dimpling
- Profiling
- Tapping
- Spinning
- Cutting
- Piercing

To be used in pure form application by normal spray, irrigation, in bins equipped with squeegee rollers, by cloth, felt, low-pressure spray or MQL.

Use as an additive:

10% to 20% in traditional cutting oil.

2% to 15% in aroma free hydrocarbon solvent for creating evaporating fluid lubricants.

Guaranteed free of VOC (volatile organic compounds).



200 L Drum  
Item Code  
515696



20 L Jerrycan  
Item Code  
516654

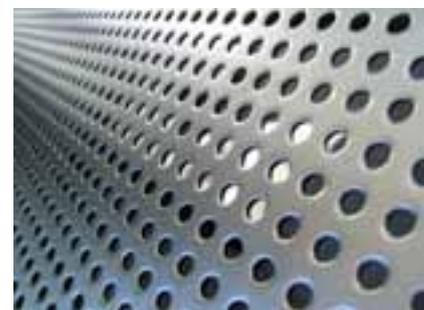
Datasheet link: [www.usinagealuminium.com](http://www.usinagealuminium.com)



Pilot hole drilling with classic drill chuck and bits  
on both concave and convex surfaces.



Center point drilling on light aluminium-silicon alloys,  
4000 Series (Aluminum-Silicon Wrought Alloy)



Can be used as an additive  
by developers or users of evaporating oil.

## PLASTIKOL T2

**MACHINING FLUID  
FOR DRILLING,  
BORING, TAPPING  
EXTRA HARD STEEL  
REFRACTORY STEEL  
STAINLESS STEEL**

Ideal Viscosity for  
**AUTOMATED MACHINERY**

100 % Additive Complex Mixture

Extreme pressure, Anti-wear

Triplies the lifetime of tools

May be used as an Additive

with Neat Cutting Oils,

Machining, Drawing and Stamping Lubricants

Including Vanishing Oils



250 ml Bottle  
Item Code  
515064



20 kg Jerrycan  
Item Code  
515275

Datasheet link : [www.fluidedecoupe.com](http://www.fluidedecoupe.com)



### DESCRIPTION

An complex blend of additives ensure tenacious film coverage and anti-weld capability.

PLASTIKOL T 2 is recommended for use in:

Cutting steel sheets, high-alloy steels and steel shells and jackets. High yield machining of extra-hard steel, including refractory steel.

Additive in cutting oils.

Drilling and tapping fluid for blind holes and through holes if all sizes, including small diameters.

Non-adhesive product allows excellent evacuation of swarf.

Non-siccative (non-drying). Does not gum or stick.

Eases deep boring operations and boring in hard metals.

Dependable in manual, semi-automatic, or automatic threading operations as well as in tapping or slotting operations.

Ensures longer tool life.

**GUARANTEED CHLORINE-FREE**

# INDUSTRIAL SOLVENTS AND ALTERNATIVE SOLUTIONS

Industrial Aerosols

NSF-certified Solvents for Agro-Food Industry

Safe Solvents

Special Solvents for Degreasing Fountains

Special Solvents for Cleaning Fountains

Biodegradable Solvents

VOC-free (volatile organic compounds) Solvents

GWP-free Solvents

Alternative solutions Plant-Based Solvents

Electronic-specific solvents

Anti-polluting dry Solvents

Solvents guaranteed HC-free, MOAH-free and MOSH-free

Acetone substitute Solvents

Substitute for NMP and NEP

Custom-Made Solvents



Google  [www.solvants.fr](http://www.solvants.fr)





1000 L IBC Container  
Item Code  
AL 30 - 516618



200 L Drum  
Item Code  
AL 30 - 514643  
AL 50 - 516227  
AL 66 - 516619



20 L Jerrycan  
Item Code  
AL 30 - 514642  
AL 50 - 516226  
AL 66 - 516412

## NEUTRALENE® AL 30 AL 50 - AL 66

### COMPLETELY ODORLESS SOLVENT DEGREASER

Enhanced Evaporation / Flash point Ratio  
NSF K1 Certified for Agro-Food Industry.  
Suitable for confined work areas,  
Mounting and Assembly plants.  
Cleaning and degreasing for  
Pneumatic Parts Washer Systems.  
Rate of evaporation:  
15 minutes at 68 °F (zero air flow).

Datasheet link: [www.solvantdegraisant.com](http://www.solvantdegraisant.com)

**PRODUCT APPROVED FOR THE FOOD INDUSTRY  
IN ACCORDANCE WITH PRINCIPLES OF  
THE HAZARD ANALYSIS AND CRITICAL CONTROL POINT  
(HACCP) SYSTEM ADOPTED BY  
THE CODEX ALIMENTARIUS COMMISSION - ISO 22 000.**

NSF Category

**Solvent K1** : NSF Nonfood Compound Registration Category Code K1 for Solvent Cleaner use in Nonprocessing area products where there is no possibility of solvent vapors entering into the food processing area.

#### DESCRIPTION

Fully deodorized fluid specifically adapted for all degreasing and decontamination operations in metallurgy, mechanical and plastics engineering.

Excellent solvent for mineral or synthetic greases and oils. Also eliminates any organic or inorganic pollution (dust, metal cuttings, filings, etc.).

Contains no stabilizing additives. Non-corrosive to metals. Compatible with all metals and most plastics and elastomers.

Ideal evaporation rate for fast and effective cleaning.

Thanks to fast-evaporating properties and a very low surface tension, NEUTRALENE® AL 30 effectively treats components with complex geometries or blind holes, eliminates dirt and leaves surfaces perfectly clean and residue-free.

NEUTRALENE® AL 30 is also an excellent choice for silicone oil removal.

#### APPLICATIONS

Degreasing of machined parts, components, machine tool frames, chassis.

Cleaning of bearings, pinions, filters.

Industrial maintenance procedures, such as cleaning of injection molds.

Cleaning after storage.

Surface preparation before assembly.

Suitable for use in fitting workshops and assembly areas.

May be used cold: with a cloth, a brush, in a tank or by compressed air methods.

KEY DATA	Flash Point	EVAPORATION RATE	Kb value SOLVENCY
NEUTRALÈNE® AL 30	86 °F	15 mn	45
NEUTRALÈNE® AL 50	118,4 °F	30 mn	46
NEUTRALÈNE® AL 66	145,4 °F	45 mn	46



NEUTRALÈNE® AL 30 can be used for difficult degreasing operations, either in tanks or in stationary or mobile solvent fountains.



Ideal for cleaning injection machines during production stoppages.

## NEUTRALÈNE® ECO 60

### MULTI-PURPOSE DEGREASING SOLVENT



1000 L IBC Container  
Item Code  
516620



200 L Drum  
Item Code  
515108



20 L Jerrycan  
Item Code  
515109

Datasheet link: [www.solvantdegraissanteco.com](http://www.solvantdegraissanteco.com)

Optimized evaporation rate / flash point Ratio.  
CLP EC1272 GHS Regulation:  
Non-classified Flammable material  
Degreasing Operations and Cleaning Systems.  
Degreasing for Industrial Maintenance  
and General Mechanics  
Eliminates wet Ink in  
Flexography and Heliography processes



NEUTRALÈNE® ECO 60 is used for difficult degreasing operations in fixed or mobile degreasing tanks or solvent parts washers.

#### DESCRIPTION

The narrow cut Hydrocarbon mixture delivers a fast evaporation rate for a maximum flash point. Hydrotreated by catalysis, NEUTRALÈNE® ECO 60 is entirely free of aromatics and benzene.

This product is intended for degreasing operations in mechanical applications and industrial maintenance, as a degreasing solvent for parts washers and can also be used in many other fields due to a high degree of neutrality in relation to plastics.

Solvent degreaser for use in aqueous parts cleaning and degreasing systems.

#### APPLICATIONS

Cleaning and degreasing of mechanical components, bearings, rollers, slides, racks, power transmissions, information transmissions. Can be used for cleaning electronic equipment having undergone operations involving humidity.

Industrial maintenance.

Cleaning operations in assembly workshops.

Removal of wet inks in flexography and heliography printing.

#### DIRECTIONS FOR USE

To be used in pure form, undiluted.

Removal by wiping with cloth or by brush or low-pressure sprayer.

Degreasing fountains.

Do not use in ultrasound tanks.

KEY DATE	Flash Point	EVAPORATION RATE	Kb value SOLVENCY
NEUTRALÈNE® ECO 60	143,6 °F	35 mn	32



Degreasing of mechanical components



Cleaning inks from flexography cylinders.



Dielectric quality,  
discharge voltage  
IEC156 63 000 volts  
for clean-up operations  
and decontamination in  
humid environments.



# INDUSTRIAL SOLVENTS

Dielectric quality, discharge voltage IEC156 50 000 volts for clean-up operations and decontamination in humid environments.



1000 IBC L Container  
Item Code  
514644



200 L Drum  
Item Code  
514645



20 L Jerrycan  
Code Article  
514646

Datasheet link : [www.solvantdesecurite.com](http://www.solvantdesecurite.com)

# NEUTRALÈNE® BIO 1000

## SAFE DEGREASING SOLVENT

SMP optimisation  
Solvent Management Plan (IED Directive)  
Solvent input/output material balance  
Low volatility, reduction of consumption.  
**ELIMINATION OF SOLVENT EMISSIONS**

Non-flammable, VOC FREE

Easily biodegradable

NSF K1 Certified for Agro-Food industry

Potent Degreasing Fluid reinforced with

Plant based Esters

Non-greasy

Evaporates completely, leaving no oily residue

Can be used Hot or Cold

"Specially formulated for  
Degreasing Parts Washers"

### DESCRIPTION

Solvent degreaser, non-flammable safety cleaning agent, biodegradable, VOC-free, specially formulated potent solvent for use in solvent parts washers. Industrial fluid reinforced with plant-based esters can also be used in all manual degreasing operations with or without mechanical action or by immersion in cold or hot baths up to 158 °F.

**PRODUCT APPROVED FOR THE FOOD INDUSTRY  
IN ACCORDANCE WITH PRINCIPLES OF  
THE HAZARD ANALYSIS AND CRITICAL CONTROL POINT  
(HACCP) SYSTEM ADOPTED BY  
THE CODEX ALIMENTARIUS COMMISSION - ISO 22 000.**

NEUTRALÈNE® BIO 1000 can be used for difficult degreasing operations, either in tanks or in stationary or mobile solvent fountains.



NEUTRALÈNE® BIO 1000 is used for difficult degreasing operations in fixed or mobile degreasing tanks or solvent parts washers.



VOC emission reduction  
Carbon content

**Volatiles organic compounds (VOCs)** are organic chemical compounds whose composition makes it possible for them to evaporate when used under normal atmospheric conditions of temperature and pressure. Therefore, solvents considered as a matter of concern are those which have a vapor pressure greater than 0,01 Kpa at a temperature of 273,15 °K - 4 °F.

### VOC FREE SOLVENT



PRP GWP 0

**EU regulation No 517/2014 of 16 April 2014** on fluorinated greenhouse gases (Directive F. Gases) prohibits use and release of greenhouse gases into the atmosphere with a GWP (global warming potential) of higher than 150. This ban took effect on January 1st, 2018. Solvent compounds, such as the mixture of MFC 365 and 227 Ea, will therefore be banned. **GWP 0** thus guarantees the total absence of greenhouse gases.



K1 - N° 146623  
Food Grade Certified

NSF Category

**K1 Solvent for use in Nonprocessing area products (where there is no possibility of solvent vapors entering into the food processing area) to degrease equipment which are utilized in production zones. (e.g. conveyor bearings and maintenance of other mechanical components, etc.).**



NEUTRALÈNE® BIO 1000 can be used in cold or hot tanks up to 158 °F and in rotating or forward-travelling basket machines.



K1 - N° 156389  
Food Grade Certified



## NEUTRALÈNE® 1079

### ODORLESS CLEANING SOLVENT

**SPECIALLY FORMULATED SOLVENT  
FOR INK, RESIN, VARNISH, FRESH PAINT,  
AND SIMILAR NON-RETICULED FINISHES**

Non-classified Flammable material  
Easily biodegradable

Easy to rinse

Can be used pure or diluted with water.  
Can be used in parts washers  
by immersion or spray washing equipment.



200 L Drum  
Item Code  
515111



20 L Jerrycan  
Item Code  
514986

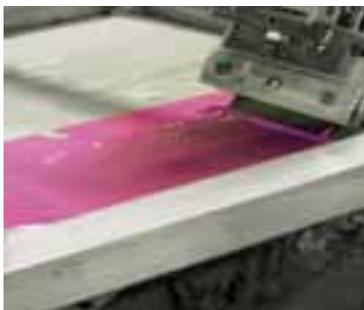


Product guaranteed to contain  
no HC no MOSH-MOASH

Datasheet link: [www.solvantsanscovfreesolvent.com](http://www.solvantsanscovfreesolvent.com)

**NO WARNING LABEL REQUIRED**  
**EUROPEAN REGULATION CLP 1272/2008**  
**SGH - GHS REGULATIONS**

NEUTRALÈNE® 1079 can be utilized in pure form or diluted in water, to clean and eliminate fresh paints, inks and resins in mobile or stationary parts washing machines.



Washing of silk screens, cleaning of silicon elastomer pad printing stamps.



NEUTRALÈNE® 1079 is utilized in difficult cleaning operations. It can be used in mobile or stationary parts cleaning tanks and parts washing machines, in pure form or diluted in water, to clean and eliminate fresh paints, inks and resins.



Elimination of contact adhesives on production lines.

#### DESCRIPTION

An azeotropic mixture and potent solvent for all degreasing jobs, including parts washing in hot or cold baths. Specifically formulated for resins, inks, adhesives, glues, fresh paint and primers. Excellent solvent for Hot-melt adhesives.

#### APPLICATIONS

Rinsing of ink ducks in offset printing and flexography.  
Soaking of spray nozzles of resins, primers, paints, foams, glues.  
Soaking or immersion of stainless steel gravure cylinders, impresson cylinders, rotogravure cylinders.  
Cleaning by cloth of frames of roll to roll machines that apply coatings or printing.  
Cleaning by cloth of resin application machines or paint booths.  
Centrifugal washing of tanks and mixers for resins, monomers, and master mixtures.  
Cleaning by spraying and brushing of manufacturing tanks and mixers.  
Use on solvent parts cleaners, pure or diluted in water, according to the nature of the paints and resins.

NEUTRALÈNE® 1079 is highly recommended for the cleaning of textile belts for silk screen printing, by scraping. It also dissolves contact adhesives, UV cured resins, carboxy alkyl cellulose and nitrocellulose resins, carboxymethyl cellulose, CMC (gelling agents, ophthalmology thickeners, ion exchange resins, water treatment and chromatography).

## NEUTRALENE® 2005

### DEGREASING SOLVENT ULTRA-FAST EVAPORATION

Developed as replacement for  
CFC 113 and HCFC 141 B  
For degreasing, decontamination  
and washing of materials  
sensitive to organic solvents.  
Precision degreasing of Embedded Electronics.  
Aeronautics and Space Industries  
Optics Industry



200 L Drum  
Item Code  
514639



25 L Drum  
Item Code  
514638



5 L Jerrycan  
Item Code  
516621

Datasheet link : [www.solvantultrarapide.com](http://www.solvantultrarapide.com)

KEY DATE	FLASH POINT	EVAPORATION RATE	Kb value SOLVENCY
NEUTRALÈNE® 2005	NON MEASURABLE	6 mn	34



**GUARANTEED FREE FROM GREENHOUSE  
FLUORINATED COMPOUNDS WITH A  
GWP above 150**  
EU Regulation 517/2014 F. Gas Directive  
Prohibited since 01/01/2018



#### DESCRIPTION

Degreaser specifically intended for oil and grease removal. Formulated according to unmeasurable flash point technology, thereby ensuring safety in industrial applications. This product was specifically designed to combine extra-duty cleaning power with the fastest evaporation rate possible. It leaves no residue. It also serves as an excellent surface preparation agent prior to paint, glue and decorative treatments. It is compatible with all metal and most plastics and rubber materials. It contains no stabilizer, thereby avoiding future oxydation problems.

#### APPLICATIONS

##### Degreasing, Cleaning, Washing

Degreasing of precision mechanical components.  
Measurement and laboratory instruments, prior to calibration.  
Output production of parts with mirror polished finish.  
Preparation of components and materials, before packaging.  
Plastics and composites surface preparation.

##### Surface Preparation

Eliminates organic and inorganic pollutants prior to assembly, surface treatments, chemical fixation and painting.  
Cleaning of electronic tracks and surface mounted components.  
CMS.  
Washing of lenses and optics.

##### Industrial maintenance

Degreasing and cleaning of production lines, packaging lines, with very short intervention times.  
Cleaning in clinically sterile clean room surroundings.  
For use on components with complex geometries, exhibiting retention zones and contact area.  
Other assembled materials and components.



1000 L IBC Container  
Item Code  
516622



200 L Drum  
Item Code  
514640



25 L Drum  
Item Code  
514641

## NEUTRALENE® 2012

### FAST EVAPORATING SOLVENT DEGREASER

Developed as a substitute for  
TRI 111 ETHANE in Cold Applications  
Industrial Maintenance and  
Precision Mechanics Degreasing  
Operations with Short Processing Times  
Surface Preparation prior to adhesive,  
decoration and other treatments.  
No Measurable Flash Point

Datasheet link : [www.solvantrapide.com](http://www.solvantrapide.com)

KEY DATE	FLASH POINT	EVAPORATION RATE	Kb value SOLVENCY
<b>NEUTRALÈNE® 2012</b>	NON MEASURABLE	<b>12 mn</b>	<b>64</b>



**GUARANTEED FREE FROM GREENHOUSE  
FLUORINATED COMPOUNDS WITH A  
GWP above 150**  
EU Regulation 517/2014 F. Gas Directive  
Prohibited from 01/01/2018



AIR 0011 Standard specifications  
Aeronautical aptitude certificate No. 072



Cleaning of corrosion protection products  
used in plastic injection moulds.

#### DESCRIPTION

Degreaser specifically intended for oil and grease removal.  
Formulated according to unmeasurable flash point technology,  
thereby assuring more safety in industrial applications.  
The evaporation rate is specially designed for optimal cleaning action  
in conjunction with the fastest evaporation possible.

NEUTRALENE® 2012 leaves no residue. Serves as an excellent surface  
preparation agent.  
NEUTRALENE® 2012 is compatible with all metal, and most plastics  
and elastomers.  
Excellent for cleaning external demolding agents, vaseline, polyvinyl  
alcohol and talcs.  
Contains no stabilizer, thereby avoiding any future oxydation pro-  
blems.  
NEUTRALENE® 2012 can be used in pure form, in cold operations  
and by all manual or industrial processes.

#### APPLICATIONS

##### Cleaning and Degreasing

Excellent solvent for greases, oils, waxes and temporary protection  
products.

Degreasing of metal parts (aluminum, steel, stainless steel, brass,  
casts, magnesium, nickel alloys).

Cleaning of plastic injection molds and printing mechanics.

Degreasing of slide machine tools.

Degreasing of parts after machining and processing.

##### Surfaces Preparation

Eliminates organic and inorganic residues before assembly or before  
surface treatment and before chemical fixing.

##### Industrial Maintenance

Degreasing of all mechanical composites, fluid power,  
power transmission, data transmissions. Automated systems and Ro-  
botics. Packaging and assembly lines.

# NEUTRALENE® 2015

## DEGREASING CLEANING SOLVENT

### EXTRA-DUTY FORTIFIED SOLVENT



GRV 1000 L Container  
Item Code  
515637



200 L Drum  
Item Code  
515638



25 L Drum  
Item Code  
515639

Datasheet link: [www.degraissantpuissant.com](http://www.degraissantpuissant.com)

Specifically formulated for tough degreasing jobs.  
Eliminates carbon deposits and burnt greases  
Dried mineral and vegetable oils and Siccative mineral and vegetable Drying Oils.  
Vegetable resin deposits and contact adhesives.  
Fresh and Residual inks that require Fast Action.  
No Measurable Flash Point

KEY DATA	FLASH POINT	EVAPORATION RATE	Kb value SOLVENCY
<b>NEUTRALÈNE® 2015</b>	NON MEASURABLE	<b>15 mn</b>	<b>117</b>



**GUARANTEED FREE FROM GREENHOUSE FLUORINATED COMPOUNDS WITH A GWP above 150**  
EU Regulation 517/2014 F. Gas Directive Prohibited since 01/01/2018

#### DESCRIPTION

NEUTRALENE® 2015  
Specifically formulated for tough degreasing jobs.  
Non measurable Flash Point.  
Ultra-fast evaporation.  
Solvent power suitable for a wide variety of uses.  
Compatible with most supports.

#### AREAS OF USE

NEUTRALENE® 2015 eliminates all unwanted substances and residues such as maintenance lubricants, cutting oils, temporary coating and protection products, slide varnish for mechanical construction.  
Animal fats, lanoline, tallow, spermaceti oil, sodium tallowate, lard.  
Vegetable Oils, such as palm oil, castor oil, rapeseed oil, sunflower oil and drying oils. Petroleum-based waxes, paraffin waxes and micro-crystalline waxes.  
Glue residues, polymerized seals and washers, adhesive traces and colophony soldering flux.

#### APPLICATIONS

Blending and packaging facilities.  
Mechanical construction, metal processing.  
Maintenance and cleaning in industrial environments.  
Production, assembly, and fitting lines.  
Production of electrical and electronic components.  
Degreasing operations before metrological inspection.  
Degreasing of measuring and test instruments.  
Washing of optics, clock mechanisms, metering equipment, sighting equipment.



Degreasing of mechanical components before inspection



Cleaning of sunflower oil residues on packaging lines.

# SOLVENTS BY NEUTRALENE®

Typical Applications

AL 30  
AL 50  
AL 66

ECO 60

BIO  
1000

1079

2005

2012

2015

VG  
2020



Degreasing with Cloth

● ● ●

● ● ●

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● ● ●



Degreasing with brush

● ● ●

● ● ●

● ● ●

● ● ●

● ● ●

● ● ●

● ● ●

● ● ●



Low-pressure sprayers with water rinse

● ● ●

● ● ●  
from 20 %  
with water

● ● ●  
from 20 %  
with water



Solvent Tanks

● ● ●

● ● ●

● ● ●

● ● ●  
from 50 %  
with water



Ultrasonic Wash

● ● ●

● ● ●  
from 20 %  
with water

● ● ●

● ● ●  
from 10 %  
with water



Immersion Tanks for Cold or Hot operations

● ● ●

● ● ●

● ● ●  
from 50 %  
with water

● ● ●

● ● ●

● ● ●



Rotary basket washing machine

● ● ●

● ● ●

● ● ●



A3 solvent washing machines

● ● ●

● ● ●



Spray Wash machines

● ● ●  
from 20 %  
with water

● ● ●  
from 10 %  
with water

# SAFE DEGREASING SOLVENT

## NEUTRALENE<sup>®</sup> VG 2020



CARBON FOOTPRINT<sup>®</sup>  
1,55 kg Carbon Equivalent

### NO WARNING LABEL REQUIRED

European Regulation CLP 1272/2008  
SGH - GHS Regulations

ORGANIC SOLVENT FOR HEAVY-DUTY INDUSTRIAL CLEANING,  
SPECIALIZED INDUSTRIAL FACILITIES AND STRUCTURES, NETWORKS,  
TANKS, RETENTION SYSTEMS, INDUSTRIAL MAINTENANCE

### 100 % PLANT-BASED = 100% SAFE

BIO-BASED ENVIRONMENTALLY FRIENDLY SOLVENT  
HIGH PERFORMANCE CLEANER AND DEGREASER  
GUARANTEED FREE OF HAZARDOUS OR TOXIC SUBSTANCES  
NON-IRRITATING AND NON-SENSITIZING.

Can be used in Cold operations or on Hot surfaces  
Declassified ATEX zonage.

Highly Effective Solvent. High KB Value < greater than 180.

Optimization of SMP (Solvent Management Plan)  
(IED Guidelines)

Solvent input/output material balance  
Low volatility, reduced consumption.

**REDUCED SOLVENT EMISSIONS**

VOC 0      ODP 0      PRP 0

CLASS NHIW (non-hazardous industrial waste) = Reduced disposal costs.

Freezing point -4 °F. Outdoor storage is authorised.  
Confirmed with no delay. (French Environmental Regulation. Unlabelled product  
ICPE environmental code. Non-polluting product)

Reduction of industrial risk, operating loss and third-party liability.  
(Insurance Code)



IBC 1000 L Container  
Item Code  
515063



200 L Drum  
Item Code  
515062



20 L Jerrycan  
Item Code  
515061

Can be used pure or diluted in water.  
Rapidly dissolves greases, lubricants,  
tar, bitumen, asphalt, heavy hydro-  
carbons, combustion residues.

Can be rinsed with water

Datasheet link :  
[www.ecolsolvantdegraisant.com](http://www.ecolsolvantdegraisant.com)



WGK German Water Hazard  
Class Substance List 1  
Non-hazardous to waters

Primary CEC biodegradability  
21 days at 77 °F L 33 T 82  
superior to 90 %

Readily biodegradable  
OECD 301 A - ISO 7827 over 28 days  
DOC die-away superior to 80 %

Ready and ultimate  
biodegradability OECD 310 C for 28 days  
MITI amended superior to 90 %

Bioaccumulation  
1-Octanol / water ratio OECD 107  
Log Kow inferior to 3



Cleaning and maintenance operations  
at chemical processing plants.



Dissolves and Eliminates  
combustion and soot residues.



Cleaning and maintenance operations  
in Gas Production



RIG WASH for the elimination of Crude oil  
on off-shore drilling platforms.



Cleaning and degreasing operations in  
hot environments, such as the steel and foundry  
industries, forges and glass smelters.



Pipe line cleaning at Refineries



General cleaning and degreasing  
in mining operations



First and second wood processing  
slip agent and odorless sawing lubricant  
substitute for gas oil  
100% SAFE

# NEUTRALENE® VG AL 1

## DEGREASING SOLVENT FOR AGROFOOD INDUSTRY NSF K1 Certified

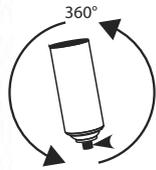
Degreasing Solvent, Cleaning,  
Washing agent and Dissolvent

Guaranteed free of hazardous or toxic substances

Non-irritating and non-sensitizing.

Heavy-duty Organic Solvent  
Reinforced Cleaning and Dissolvent Power.

Expiration  
date  
extended  
**5**  
Years



K1 - N° 155981  
Food Grade Certified

Non-flammable  
Inert Plant-based  
Propellant  
3 %

Active  
ingredient  
97 %



Product guaranteed to contain  
no HC no MOSH-MOASH

520 ml Aerosol  
Item Code  
516255

Datasheet link : [www.solvantvegetalalimentaire.com](http://www.solvantvegetalalimentaire.com)



**PRODUCT APPROVED FOR THE FOOD INDUSTRY  
IN ACCORDANCE WITH PRINCIPLES OF  
THE HAZARD ANALYSIS AND CRITICAL CONTROL POINT  
(HACCP) SYSTEM ADOPTED BY  
THE CODEX ALIMENTARIUS COMMISSION - ISO 22 000.**

NSF Category

**K1 Solvent:** Solvent Cleaner for use in Nonprocessing area products (where there is no possibility of solvent vapors entering into the food processing area) to degrease equipment utilized in production zones. (e.g. conveyor bearings and maintenance of other mechanical components, etc.).



Degreasing and cleaning of saw blades  
before resharpening.

### DESCRIPTION

Degreasing, cleaning solvent, washing, solvent agent.

Guaranteed free of hazardous or toxic substances.

Non-irritating and non-sensitizing.

Heavy-duty Organic Degreaser and Solvent.

Kauri-butanol value (Kb)180.

Highly effective Cleaner and Dissolvent.

Highly wettable, soluble and highly adhesive. Dissolves and eliminates most organic and inorganic pollutants, including inks and fresh resins.

### APPLICATIONS

NEUTRALENE® VG AL 1 is a fast acting plant-based solvent for the removal of organic and non-organic contamination and pollutants, including residues from combustion.

Excellent degreaser for lubricants, which have a tendency to dissipate due to their mineral origin. In response to this problem, iBiotec offers a full range of products guaranteed free of hydrocarbon content and therefore free of mineral oil content.

NEUTRALENE® VG AL 1 dissolves, degreases and eliminates.

NEUTRALENE® VG AL 1 is effective on vegetable or animal fats and oils, triglycerides and fatty acids; phospholipids (soya, rapeseed, sunflower, chicken eggs, bovine milk, fish eggs etc), monoglycerides and diglycerides (commonly used as emulsifiers), unsaponifiables, sterols, tocopherols, pigments and waxes.

Vegetable tars, bitumen of Judea and excess debris.

Calcination and cooking residues.

Liquid inks (Flexo or Helio) and fatty inks (Offset).

### INSTRUCTIONS FOR USE

Spray onto surfaces to be cleaned or degreased (do not spray in excess). Leave to absorb if the pollutant layer is thick. A brush may also be used to spread product. Wipe away with a clean cloth.

## NEUTRALENE® HV 1

### SOLVENT DEGREASER PARTS CLEANING AGENT FOR ELECTRICAL CONTACTS

Removes contaminants  
from electrical equipment and parts

Safe for use on thermoplastics, thermoset resins  
varnishes and conformal coatings.

Fast drying  
Evaporates Quickly



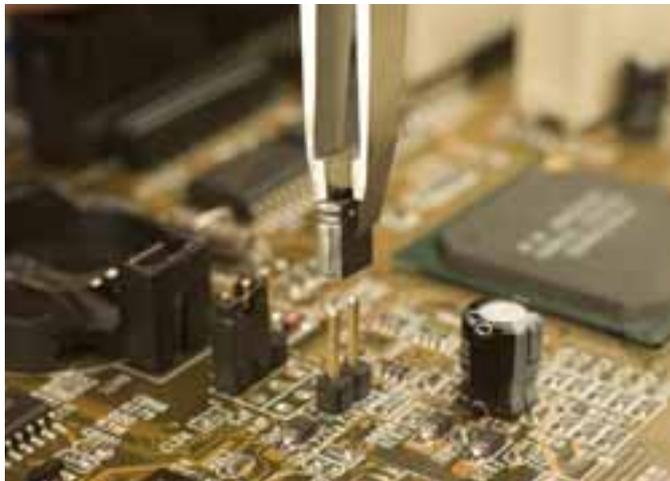
**DIELECTRIC STRENGTH**  
(IEC156 43000 VOLTS)

Expiration  
date  
extended  
**5**  
Years



650 ml Aerosol  
Item Code  
516272

Datasheet link : [www.degraissantsec.com](http://www.degraissantsec.com)



Cleaning of micro-electronic contacts and electronic circuits.



Quick-dry cleaning of electrical contacts.

#### DESCRIPTION

NEUTRALENE® HV1 evaporates quickly and cleanly, leaving no residue that could lead to device malfunction or failure. Highly recommended for cleaning, degreasing and removal of contaminants on metals, composites, glass, ceramic, and rubber and plastic. Eliminates all sorts of organic and inorganic pollutants.

NEUTRALENE® HV1 offers effective cleaning of electronics, electrical components and precision mechanics in the optics, aerospace or aeronautics sectors.

This product is highly recommended for electronics maintenance, rework and repair operations and restores full circuit continuity. NEUTRALENE® HV1 can also be used for surface preparation before operations of welding, gluing, insulating, hot stamping, bonding, and metallization.

#### APPLICATIONS

Maintenance of electric components, such as inputs/outputs, connexions, switches, isolating switches, circuit breakers, circuit boards, rheostats, current stations and generators.

NEUTRALENE® HV1 can be used safely on protective coatings.

Decontamination of connections, busbars, fuse holders, fins on low voltage transformers.

Cleaning of open-cell or pre-block insulators, transformer penetrations, Buchholz relays, pressure gauges and valves.

Cleaning and silicone removal from EHV distribution stations and connectors before manual or infra-red camera inspection.

Cleaning of all direct contacts, potentiometers, keyboards, sliders, rotary contacts.

Servicing of low voltage equipment: telephony, telecommunications, air and sea navigation equipment.

Cleaning of microswitches, semiconductor pads, electronic tracks.

Cleaning of SMC circuits.

#### INSTRUCTIONS FOR USE

Shake the aerosol can vertically for a few moments. Spray at a distance of 20 cm depending on the size of the mechanism to be lubricated. Can be utilized in any position.



Datasheet link : [www.degraisstrapide.com](http://www.degraisstrapide.com)

**Guaranteed  
FREE of  
Neurotoxic n.Hexane**

## NEUTRALENE® V 200



K1 - N° 149055  
Food Grade Certified

### MULTI-PURPOSE HIGH PERFORMANCE SOLVENT

Powerful Solvent for Degreasing and Cleaning

Decontamination and Surface Preparation  
NSF K1 Certified for the Food Industry



Dielectric Solvent (IEC 156 50 000 Volts)  
for decontamination wet-clean process

Effective brake cleaner  
and for handling and hoisting chains

Guaranteed Free from Chlorinated Solvent  
Aromatic compounds, Ketones and n-Hexane

Ultra-Rapid Evaporation  
**9 minutes at 68 °F** zero air flow

**APPROVED FOR THE AGRO-ALIMENTARY INDUSTRY  
IN ACCORDANCE WITH HACCP METHODOLOGY  
(HAZARD ANALYSIS CRITICAL CONTROL POINT)  
ISO 22 000 CODEX ALIMENTARIUS STANDARDS**

NSF Category

**Solvent K1** : Solvent Cleaner for use in Nonprocessing area products (where there is no possibility of solvent vapors entering into the food processing area) to degrease equipment utilized in production zones. (e.g. conveyor bearings and maintenance of other mechanical components, etc.).



Cleaning of grey iron, composites, ceramic and carbon/carbon brake discs.

#### DESCRIPTION

Neutralene® V 200 is used for cleaning and preparation of surfaces. Formulated for speedy evaporation and a very high KB 90 index (solvent power).

Degreasing in mechanics, plastics and industrial maintenance.

Decontamination of inactive electrical equipment.

Cleaning of inks, glues, adhesives and resins.

Cleans and removes excess dirt buildup from brakes and braking system.

Cleans and prepares surfaces before adhesive, paint or decorative operations.

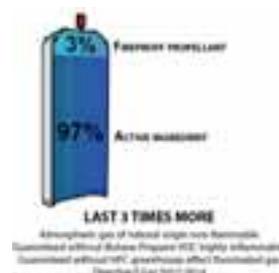
#### INSTRUCTIONS FOR USE

Shake the aerosol can vertically for a few moments.

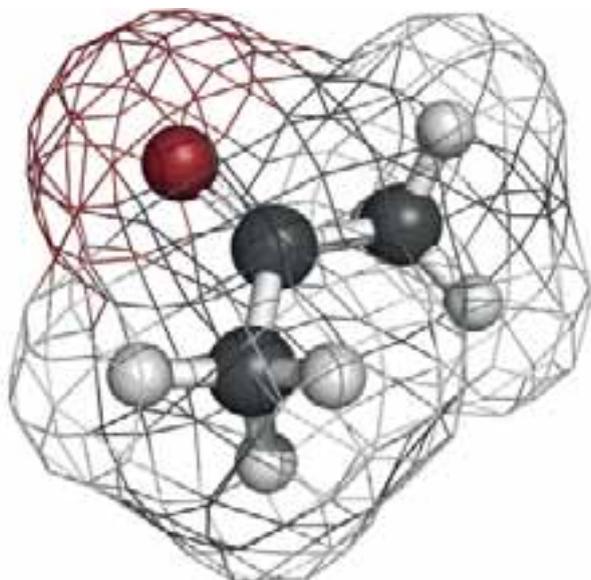
Spray onto the surfaces to be treated until organic and/or inorganic pollutants are removed. Use a cloth to dry by hand if desired.

Aerosol can be sprayed in any position.

Do a trial test on a small portion beforehand if using on plastics that may be sensitive to organic solvents.



650 ml Aerosol Can  
Contains 397 ml  
of the active ingredient  
Regulatory Report:  
**SGS N° RN14-26260.001**  
on Jan. 12, 2015



# ACETONE SUBSTITUTION

Acetone is extremely flammable. With a flash point of  $-0,4^{\circ}\text{F}$ , it is a particularly dangerous solvent to use. In addition, acetone fumes form explosive mixtures in the air.

**With a vapor pressure of 27.4 kPa, acetone, like ether, is highly volatile and requires repeated application in order to obtain efficient cleaning. Though it is economical in terms of cost, significant quantities must be used due to its volatile nature and need for multiple applications.**

Health concerns in using Acetone include:

- Irritation of the skin, nose, throat and lungs.
- Serious Cat.2 eye irritant.
- Central nervous system depression in cases of high exposure.
- Headache, dizziness, intoxication and risk of unconsciousness.
- Nausea, vomiting, hematemesis, metabolic acidosis.
- Cat.3 narcotic effects.
- Specific toxicity for certain organs.
- Obligatory exposure value 500 ppm Art. 4412-149 of the Labour Code.



It also should be noted that storage, implementation or use of extremely flammable liquids must be declared to insurance companies.

Bibliography (English translated from French texts):

[inrs.fr](http://inrs.fr) FT 3 acétone

[vulgaris-medical.com](http://vulgaris-medical.com) Toxicité de l'acétone

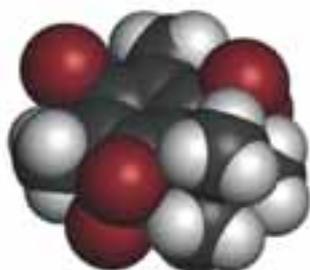
[csst.qc.ca](http://csst.qc.ca) Acétone

Sales and distribution of acetone is prohibited in many countries. Acetone is used for the purification of cocaine. Catalyzed with hydrochloric acid, it is easy to make TATP, a powerful explosive used in terrorist acts.

## NEUTRALENE INFINITY

### CLEANING SOLVENT

### PE, PU, EPOXY, BIS-GMA RESINS



**REPLACEMENT  
FOR NEP  
AND NEP**

**Replaces NMP**

**CAS 872-50-4**

**Synonyms** N.Methyl.2.Pyrrolidone  
M Pyrol  
1-Methylazacyclopentan-2-One

Both NMP and NEP (N.Ethyl.2.Pyrrolidone) CAS 2687-91-4, have been classified by CLP regulation CE 1272/2008 / SGH

**Reprotoxic CMR**

H 360 D May be harmful to fetuses  
H 319 Causes serious eye irritation  
H 315 Causes skin irritation.

#### DESCRIPTION

**INFINITY** is part of an ongoing approach aimed at reducing danger pictograms.

**INFINITY** is a solvent, a dissolvent, a powerful stripping agent for varnishes, paints, polymers, compound polymers and composites, as well as combustion engine residues.

It's also an excellent dissolvent for polymerised anaerobic adhesives and resins.

Its action time is greatly accelerated when hot dipping is applied.

#### APPLICATIONS INSTRUCTIONS FOR USE

**INFINITY** removes most polymers and compound polymers and acts as a stripper, solvent or cleaning agent.

Use pure, cold, by wiping with a cloth or in a dipping basin.

The cleaning speeds of the substrates can be accelerated in hot baths up to 70°C.

**INFINITY** by soaking, dissolves the cured anaerobic adhesives and resins used in chemical fixation.



**IBC GRV 1000 KG**  
Item code  
516860



**Drum 200 KG**  
Item code  
516642



**Container 20 KG**  
Item code  
516690



Datasheet link : [www.substitutnmp.com](http://www.substitutnmp.com)

# NEUTRALENE® RG 30



20 L Jerrycan  
Item Code  
516612



5 L Jug  
Item Code  
516628



1 L Bottle  
Item Code  
516629

## IMMEDIATE REPLACEMENT FOR ACETONE

### AREAS OF USE

Cleaning rollers, de-icers and application tools for the implementation of polyester resins and epoxies.

Lamination, fiberglass molding, coatings, sheet molding and bulk moulding compounds for injection and compression moulding. MMC (mineral moulding compounds), CIC (continuous impregnated compounds), under-coating, coating, primaires, varnish, laquage, inks, glues, adhesives, top coating, gelcoat, paint, and processes such as fiberglass spray lay-up, vacuum bag moulding, and filament winding.

Neutralene RG 30 has an optimized evaporation rate allowing effective action even on highly reactive resins having a short TECAM gel time of a few minutes.

Datasheet link: [www.substitutacetone.com](http://www.substitutacetone.com)

KEY DATA	FLASH POINT	EVAPORATION RATE	Kb value SOLVENCY
<b>NEUTRALENE® RG 30</b>	<b>86 °F</b>	<b>4,30 mn</b>	<b>&gt;150</b>

### UPR RESINES

Aliphatic Homopolymers PGA PLA PGL PCL PHA PHB  
Aliphatic co-polyesters PEA PBS  
Semi-aromatic co-polyesters FBT PTT PEN  
Homo and aromatic co-polyesters Polyacrylates  
Hybrid polyester polyesters - Epoxies

### EPOXY RESINS

Epichlorohydrin ECH  
BPA Bisphenol  
Aliphatic Glycol  
Phenolic novolacs  
O Cresols  
Hydantoins (ureaglycols)  
Brominates, acrylates

### EPOXY HARDENERS

PDDM MDA Polyisocyanates  
Aliphatic amines  
Base anhydrides  
TGIC (triglyceride isocyanates)



NEUTRALENE RG 30 is an azeotrope with a distillation point of 257 °F. It can easily be recovered, distilled and reused, without loss of its physicochemical properties.

The distillation point can be lowered by about 30 % when using a vacuum distiller. The distillation is then complete and extremely fast, at 194 °F.





# **CORROSION PROTECTION**

Technical Aerosols

Penetrating fluids for complex geometries

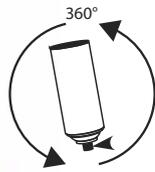
Products specially designed for Plastic linjection

Products visible upon application

Long-term protection Wax

High Performance Cold Galvanizing Compound

Touch-up Cold Galvanizing Compound



Neutralizes Fingerprints



Non-flammable  
Inert Plant-based  
Propellant  
3 %

Active  
ingredient  
97 %



Corrosion Protection for Punching tools

Datasheet link: [www.fluideanticorrosion.com](http://www.fluideanticorrosion.com)

## PROTECT FL 100 PROTECT FL 100 BLUE

### OIL FOR LONG-TERM PROTECTION AGAINST CORROSION

#### PROTECT FL 100

Protection of all Metals  
Forms a thin protective film  
that can be removed with solvents.

Resists drying out.

Neutralizes corrosion caused by fingerprints.

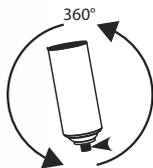
Penetrating to reach  
complex geometries and parts.

#### PROTECT FL 100 BLUE

Blue-tinted and visible upon application  
on flat surfaced parts.

Non-penetrating and stainless at start-up.

Protection for molds, cutting tools,  
punching tools prior to storage.



Corrosion Protection for plastic injection molds.

#### DESCRIPTION

Non-oily corrosion protection for long-term storage, resists drying out and provides U.V. resistance.

Water proof and water repellent, can be used on wet surfaces. Corrosion protection after machining with soluble oils.

Assures protection against humidity, including motors or electrical components. Provides protection for parts and components exposed to manual manipulation and sensitive to acids which come from contact with hands.

#### AREAS OF USE

Protection of molds in foundry, glassmaking, plastic injection and extrusion blow molding

Parts made by cutting machines.

Precision mechanics parts.

Prototypes.

Punching tools, dies and templates.

General Maintenance.

Marine Industry and Navy.

Preventive maintenance.

#### INSTRUCTIONS FOR USE

Shake the aerosol can vertically for a few moments.

Spray on clean surfaces, at room temperature and at a distance of 25 cm. Aerosol can be used in all positions.

## PROTECT CR 250

### LONG-LASTING CORROSION INHIBITOR WAX-BASED AEROSOL SPRAY

Expiration date extended  
**5**  
Years



650 ml Aerosol  
Item Code 516245

25 L Drum  
Code Article  
515262

Datasheet link: [www.cireanticorrosion.com](http://www.cireanticorrosion.com)



Corrosion protection by immersion of tube bundles.



Protection of machinery during long distance Cargo Shipping.

Salt Spray Exposure Tests:  
ISO 9227 1056 hours RI 5  
Excellent Corrosion and Oxidation Resistance for Damp, Humid, Salty, Polluted Conditions and the Harshest Environments.  
Ideal for Unsheltered Storage and International Cargo Shipping.  
Provides a Protective Shield for Engines and Chassis underbody.

#### DESCRIPTION

Effective Corrosion Inhibitor Spray that provides a thin wax coating and conforms with **ISO RIO** classification.  
Under most circumstances, it's not necessary to eliminate this film which has lubricating characteristics. Removal of the product is not necessary in any subsequent lubrication to components that require greasing prior to assembly or operation.  
In cases when removal of the product is deemed necessary, it is advised to use **NEUTRALENE® ECO 60**.  
Can be applied to vertical surfaces.  
This product can be seen by the eye when applied manually or by low pressure spray.  
Stable and practically odorless product.  
No photo-chemical reactivity, non-irritating, very low surface tension.  
Can be used on all metals.  
Compatible with most plastic and rubber materials.  
PROTECT CR 250 is effective for all long-term corrosion protection applications.

#### AREAS OF USE

- Punching tools
- Plastic injection molds
- Molds for glass industry
- Prototypes
- Precision mechanic parts
- Corrosion Protection and shielding procedures
- General maintenance
- Navy and Marine Industry
- Production of machinery
- Difficult to reach components and parts

#### SECURITY RECOMMANDATIONS

This product is similar to a cold surface treatment and should be sprayed onto a service that has been degreased and has no traces of oxidation or rust. All traces of oil or dirt must be removed and can be done effectively by cleaning with a solvent.

Shake the can until the pea is released. Apply at a distance of about 15 cm from the surface. Do not pump aerosol after use.



Technical Director

# HIGH PERFORMANCE GALVANIZING SPRAY

## «COLD GALVANISATION» or «MAKE-UP» ?

Much has been written about « cold-galvanizing » products. Both manufacturers and distributors publish material that is for the most part, marketing and sales-oriented.

For economic reasons, the vast majority of these aerosols are packaged using liquefied butane or propane gas. Aside from the danger of these extremely flammable and explosive gases, with a flash point of -72,4 °F, concentration of the active galvanizing ingredient is very low, at around 20-30%. This results in low production cost and, in turn, a moderate retail price. However, since only a small surface area can be treated, the real cost is not obvious.

Manufacturers rarely comment on this point, apart from some of the more reputable ones who advertise 1.2 m<sup>2</sup> to 1.8 m<sup>2</sup> of surface coverage. Simply weighing an aerosol before using it can reveal the true facts. The primary function of a cold-galvanizing product is to protect against corrosion. There exist a standardized method to test the performance of an anti-corrosion agent which is specified in ISO 9227 and ISO 4623-3. Few manufacturers guarantee the performance of their products because they consider that galvanizing products are used mostly for touch-up work, which people in the industry commonly refer to as "make-up". In addition, very rarely do they support the effectiveness of their products with tests conducted by certified laboratories.

Our approach is quite different at iBiotec.

Non-flammable propellant: **3 %** (registered patent of packaging procedure), Active Ingredient: **97 %**, Surface coverage: **10 m<sup>2</sup>** per aerosol, net weight: **522 grammes**, Salt spray test: ISO 9227: **2808 h**.

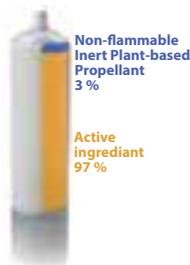
**ANALYSIS REPORT BY INTERTEK LABORATORIES**  
 (with COFRAC and ISO 17.025 certification)  
 N°PVA-CHL-R14-0135D-A01 dated 07.28.2014  
 This lab report can be sent to you upon simple request.

Temperature resistance : **+1022 °F**. Dust dry after **4 minutes**. Touch Dry after **7minutes**.  
**Galva ZN+** is more than an ordinary metallic zinc coating; it is clearly the anti-corrosion market leader in terms of price and quality.

**COVERAGE BY AEROSOL 10 M<sup>2</sup> NET WEIGHT 522 GR -58 °F + 1022 °F**



650 ml Aerosol  
Item Code  
514878

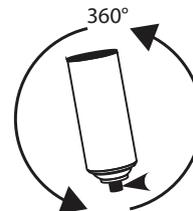


Non-flammable  
Inert Plant-based  
Propellant  
3 %

Active  
ingredient  
97 %



650 ml Aerosol  
Item Code  
514863



650 ml Aerosol  
Item Code  
514880

DATASHEET LINKS:

[www.galvanisantultrabrillant.com](http://www.galvanisantultrabrillant.com)

[www.galvanisantbrillant.com](http://www.galvanisantbrillant.com)

[www.galvanisantmat.com](http://www.galvanisantmat.com)

# **ZN METAL**

## **COLD GALVANISING AEROSOL**

Expiration date extended  
**5**  
Years



650 ml Aerosol  
Item Code  
515550

### **Special «Touch-up» Formula**

**3 FINISHES AVAILABLE**

**Bright metallic finish   Normal Metallic   Matte Metal**

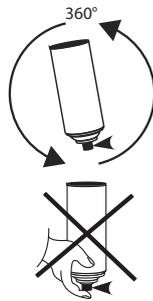
Superior Anti-Corrosion and Mechanical Performance

**Dust Dry in 4 minutes**

**Touch Dry in 7 minutes**

**Fully cured in 24 heures**

Corrosion resistance ISO 9227 - ISO 4628-3 > 3000 h R11



Aerosol can be used at any angle: 360° range

No Need to Purge.

The nozzle does not gum up or clog.



Ideal for Threaded Assemblies

MIL A 907 ED TEST

Torque resistance on threaded assemblies

Tightening torque 80 N/m

Slackening torque 80 N/m

Temperature resistance TEST 1022 °F

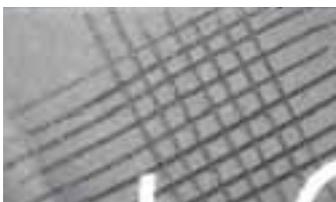
No damage to film when loosened



RICHSEN STAMPING TEST ISO 1520

Completely resists distortion

Folding and bending operations possible after treatment



Completely resistant to scoring and peeling  
Cross-hatch test ISO 2409



Zn METAL is compatible with  
Welding operations



Zn METAL can be painted



# **MULTI-PURPOSE PENETRATING FLUIDS**

Heavy Duty Anti-Seize

Penetrating Fluid for Food Industry

MoS<sup>2</sup> based Anti-Seize Lubricant

Biodegradable Penetrating Fluid

“12 Functions/Multiple Usage” Fluid

100 % Vegetable based Penetrating Fluid

## DP 6

### AEROSOL

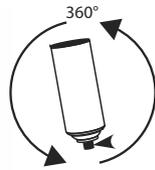
#### 6 Key Functions

Rapid action anti-seize  
Extra-penetrating, fast-acting  
Anti-wear lubricant SRV Test 0,095  
Corrosion protection in  
Static and Dynamic Operations  
Cleans oils, greases, inorganique pollutants  
Tars and Asphalt

#### IMPROVES MTB F AND M

(Mean Time Between Failures and Maintenance)

Expiration date extended  
**5**  
Years



Non-flammable  
Inert Plant-based  
Propellant  
3 %

Active  
ingredient  
97 %



Datasheet Link: [www.degrissant6fonctions.com](http://www.degrissant6fonctions.com)



DP6 Powerful Anti-Seizing action for corrective maintenance

#### DESCRIPTION

DP 6 iBiotec is multi-functional penetrating fluid, deoxidant, lubricant, anti-corrosion agent, cleaner and tar remover. A clean colorless non-greasy product, DP 6 is guaranteed free of Silicon and Phosphoric acid and chlorinated solvents. Eliminates heavy or light hydrocarbons. Gets rid of scale and the need for scrubbing. Inhibits oxidation. Prevents spark erosion and resin formation. Neutral product, free acidic or basic impurities. Does not contain any oxidizing or reducing agents. Stable with excellent surface tension. Aromatic pine scent rather than an unpleasant petroleum odor. Does not possess photochemical reactivity and is non-irritating. Water repellent, suitable for use in humid or wet environments. Safe to use on metal, plastics, rubber and painted surfaces.

#### AREAS OF USE

Telescopic Antennas  
Cleaning, reviving and stripping of surfaces.  
Nuts, bolts, screws, threads, ball joints and bearings, guides and axes.  
Locks and chains.  
Sheathed Cables.  
Electro-mechanical contacts.  
Tar removal from motor-vehicle body.  
Hinges.  
Columns.  
Removes resin form machine tool slide guides.  
Removal of grease from chains.  
Removal of rusty grease in bearings.  
General cleaning.

#### INSTRUCTIONS FOR USE

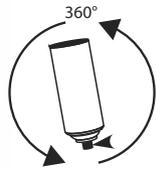
Shake aerosol can for a few seconds before spraying onto area to be treated, avoiding excess. This aerosol product can be held in any position during treatment.

# MULTI-PURPOSE PENETRATING FLUIDS

# DP 10

## AEROSOL PENETRATING FLUID 10 FUNCTIONS

Expiration date extended  
**5**  
Years



Non-flammable  
Inert Plant-based  
Propellant  
3 %

Active  
ingredient  
97 %



H1 - N° 152375  
Food Grade Certified



H1 - N° 149304  
Food Grade Certified



650 ml Aerosol  
Item Code  
514861



20 L Jerrycan  
Item Code  
515050

NSF H1 Certified for Food Industry  
Highly Biodegradable  
CEC L33 T 82, OCDE 301 A  
Penetrates, Cleans, Loosens, Dilutes,  
Removes Rust, Tar, Asphalt and Adhesives  
Lubricates, Resists Corrosion  
Revitalizes elastomers

Datasheet link: [www.degrippant10fonctions.com](http://www.degrippant10fonctions.com)



**PRODUCT APPROVED FOR THE FOOD INDUSTRY  
IN ACCORDANCE WITH PRINCIPLES OF  
THE HAZARD ANALYSIS AND CRITICAL CONTROL POINT  
(HACCP) SYSTEM ADOPTED BY  
THE CODEX ALIMENTARIUS COMMISSION - ISO 22 000.**

NSF Category

**Solvent K1** : Solvent Cleaner for use in Nonprocessing area products (where there is no possibility of solvent vapors entering into the food processing area) to degrease equipment utilized in production zones. (e.g. conveyor bearings and maintenance of other mechanical components, etc.).



Preventive Maintenance in the Food Industry

### DESCRIPTION

A clean colorless product, DP 10 is guaranteed free of Silicon and Phosphoric acid and chlorinated solvents. Eliminates heavy or light hydrocarbons. Prevents gumming. Neutral product, based on vegetal natural esters. Stable with excellent surface tension. Does not possess photochemical reactivity. Compatible for use with all plastic or rubber materials, and non-aggressive to painted surfaces.

### APPLICATIONS

Bolts, nuts, screws, ball joints and bearings, pins. Removes resin from machine tool slide guides. Swing axes. Sheathed Cables. Electro-mechanical contacts. Hinges. Guide rails. Spindles. Slide tool. Telescopic antennas. Removal of grease from chains. Mechanical engineering industry. Maintenance facilities. Automobile service centers. Farms and Wineries, Agricultural Industry. Transport Industry. Cement Industry.

### INSTRUCTIONS FOR USE

Shake before use. This aerosol product can be held in any position during treatment.

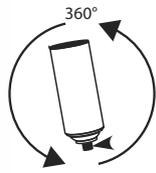


Lubrication for slide tools and lathes, cross slide, rail, carriage, saddle, screws and rods and pulleys.

# DP 3 MoS<sup>2</sup>

## MoS<sup>2</sup> PENETRATING LIQUID

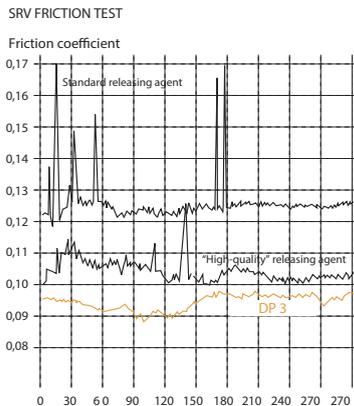
Expiration date extended  
**5**  
Years



Non-flammable  
Inert Plant-based  
Propellant  
3 %

Active  
ingredient  
97 %

Datasheet link : [www.degrippantmos2.com](http://www.degrippantmos2.com)



### FRICION COEFFICIENT ACCORDING TO THE SRV TEST

The SRV test method determines a coefficient for friction.

A lower coefficient:

- = lower energy consumption.
- = easier demounting.
- = less noise during operation.

Shown in the graph above, DP 3 MoS<sup>2</sup> guarantees a reduced and almost constant rate of friction. As you can see along the DP MoS<sup>2</sup> line, there is an absence of the peaks that represent grip problems. The peaks in the chart above reveal that certain penetrating liquids, such as the "classic" and the so-called "high quality" ones, actually have very poor lubricating power.

Highly penetrating, 24,2 dynes/cm  
Rapid Action Release capability  
Optimal Release Torque:  
MIL A 907 E10 40N/m  
Superior Lubrication  
MoS<sup>2</sup> super fine finest 2,5µ  
SRV test 0.09  
SHELL 4 BALL TEST imprint:  
0.52, ICS 3100 DaN  
Prevents wear and Helps maintain  
smooth operation with less noise.

### DESCRIPTION

Contains active ingredient MoS<sub>2</sub> (Molybdenum disulfide) for thin-filmed, robust lubrication.  
Guaranteed free of Silicon and Phosphoric acid.  
This product is an effective descaler.  
Eliminates heavy or light hydrocarbons. Prevents gumming.  
Prevents spark erosion and resin formation.  
Neutral product, free acidic or basic impurities.  
Does not contain any oxidizing or reducing agents.  
Stable with excellent surface tension.  
Aromatic pine scent rather than an unpleasant petroleum odor.  
Does not possess photochemical reactivity and is non-irritating.  
Very low surface tension.  
Water repellent, suitable for use in humid or wet environments.  
Compatible for use with all plastic or rubber materials, non-aggressive to painted surfaces.  
High self ignition point: above 446 °F.  
Very safe product according to customer service satisfaction.

### APPLICATIONS

Bolts, nuts, screws, ball joints and bearings, pins.  
Removes resin from machine tool slide guides.  
Swing axes.  
Sheathed Cables.  
Electro-mechanical contacts.  
Hinges.  
Guide rails  
Spindles.  
Slide tool.  
Telescopic antennas.  
Cleaning, reviving and stripping of surfaces.  
General cleaning.  
Removal of grease from chains.  
Removal of rusty grease in bearings.

### INSTRUCTIONS FOR USE

Shake aerosol can for a few seconds before spraying onto area to be treated, avoiding excess. This aerosol product can be held in any position during treatment.

# IMPACT

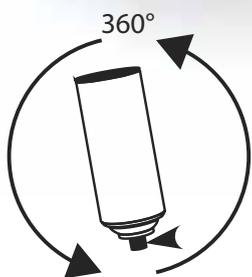
THE AGRO-SOURCED PARADOXICAL PRODUCT  
DEGREASER, ANTI-ADHERENT  
AND LUBRICANT - ALL IN ONE

12  
ACTIONS  
FOR  
1000  
APPLICATIONS



Non-flammable  
Inert Plant-based  
Propellant  
3 %

Active  
ingredient  
97 %



100 % Plant-Based  
PENETRATING FLUID SPRAY

RELEASE AGENT, ANTIOXIDANT, LUBRICANT,  
DEGREASING AGENT, TAR REMOVER,  
ANTI-ADHESION, MOLD RELEASE,

Expiration  
date  
extended

5  
Years

# 12 ACTIONS FOR 1000 APPLICATIONS

## HEAVY DUTY DEGREASING SOLVANT

Kauri Butanol Index (KBI) 180

## HIGHLY SOLUBILITY AND CLEANING POWER

High wettability,

High solubility parameters and binding force to dissolve and eliminate most organic and inorganic pollutants, including fresh inks and resins.

## EXCELLENT LUBRICATING AND ANTI-WEAR PROPERTIES

Friction Test SRV 0,12.

Lowers energy consumption, eases demounting, reduces operational noise levels.

## DEEPLY PENETRATING FORMULA

Low surface tension: 23,4 Dynes/cm

## EFFECTIVE OXIDATION INHIBITOR

Tested according to MIL A 907 ED,  
loosening torque 12Nm

## RAPID TAR REMOVING ACTION

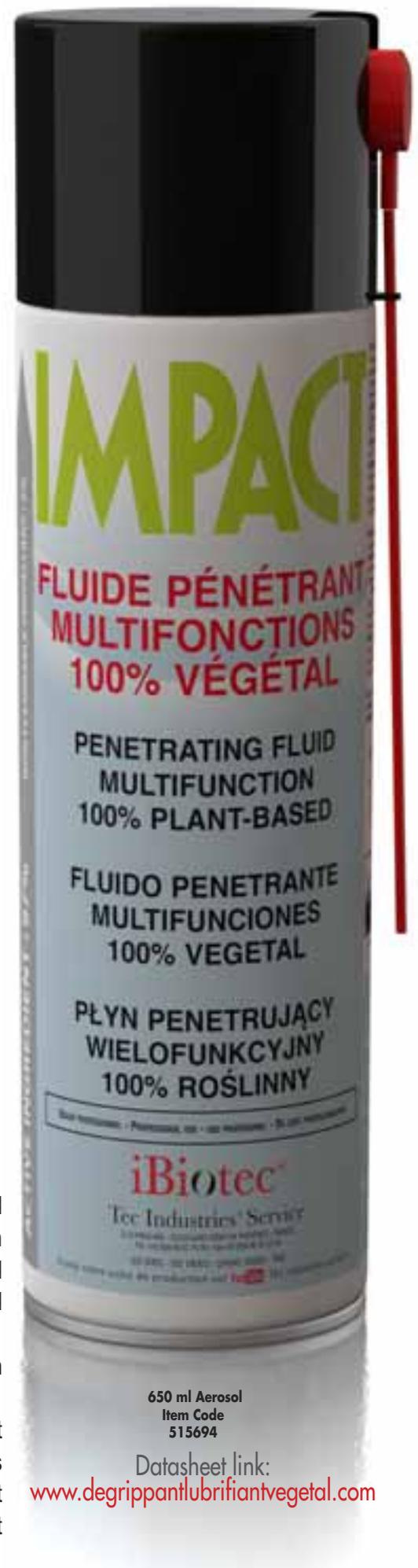
Bitumen Removal Test 40 g at 68 °F 3'15

## ANTI-CORROSION PROPERTIES

Most aerosol manufacturers or private label companies of penetrating fluids and release agents with oxidation inhibitors proclaim anti-corrosion properties, as well. In reality, the performance of a product to resist corrosion is defined by ISO 9227 and ISO 4623-3 standards. Therefore, shouldn't such products be tested and evaluated quantitatively?

Unfortunately, this is not the case and the corrosion resistance of those products is, in fact, very weak.

iBiotec IMPACT leaves an oxidation resistant film which is not photosensitive, doesn't dry out and thus protects against corrosion during shortened periods of time. Just as most other products on the market, its purpose is not to protect metals against atmospheric, chemical or thermal attack in the long term. Whatever the case, it is best to use the most appropriate product for the job at hand.



650 ml Aerosol  
Item Code  
515694

Datasheet link:

[www.degrippantlubrifiantvegetal.com](http://www.degrippantlubrifiantvegetal.com)



Mechanical parts in Fluid Systems operations



Mechanical components in Power transmissions



Primary and Secondary Wood Processing



Welding anti-spatter



Removal of metal swarf from machining



Cleaning and restoration of elastomers and rubber materials.



Data information Systems mechanical parts



General Maintenance and servicing facilities



All industrial specialty and decorative printing jobs



Garages and body repair shops for light and heavy repair, special equipment and fleet transport.



Sheet metal transformation operations



# Release Agents

Silicone- based Release Agent

Silicone-Free Release Agent

Release Agent for Composites

Release Agent for Plastic injection

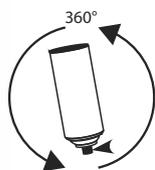
Release Agent for extrusion, injection molding and blow molding

Release Agent for Agro-Food Industry

# RELEASE AGENTS



H1 - N° 146622  
Food Grade Certified



## DEMOPLAST® 750

### SILICONE-FREE NON-OILY MOLD RELEASE AGENT

NSF H1 Certified for use in the Food Industry  
Plastic injection Mold release  
Anti-adhesive in Lost wax foundries  
Mold Release for Composites,  
for compression of particle board panels  
Compatible with  
Paint coating and Welding operations  
and all other Surface treatments  
Excellent finish after mold release

Datasheet link: [www.demoulantsanssilicone.com](http://www.demoulantsanssilicone.com)

**SUITABLE FOR MATERIALS INTENDED FOR  
FUTURE TREATMENTS INCLUDING PAINT COATINGS  
CHEMICAL SURFACE TREATMENT, BONDING, DECORATION  
OR METAL COATING.**

**SUITABLE FOR ALL PLASTICS, INCLUDING TRANSPARENT  
OR HEAVILY LOADED ONES.**

**ELIMINATES ALL STAINS, STREAKS, WRINKLES, ORANGE  
PEEL EFFECT.**

**LEAVES A SUPERIOR FINISH ON SURFACES TREATED.**

**PRODUCT APPROVED FOR THE FOOD INDUSTRY  
IN ACCORDANCE WITH PRINCIPLES OF  
THE HAZARD ANALYSIS AND CRITICAL CONTROL POINT  
(HACCP) SYSTEM ADOPTED BY  
THE CODEX ALIMENTARIUS COMMISSION - ISO 22 000.**

### DESCRIPTION

DEMOPLAST® 750 is a mold release agent for plastics. Ideal for molding operations with post-finishing steps such as painting, silk screen printing, bonding, or any decoration.

DÉMOPLAST® 750 has excellent non-stick and lubrication properties, making it an ideal mold release for all manufacturing processes: injection, extrusion, blow molding, thermoforming or press moulding.

DÉMOPLAST® 750 eases mold release from materials such as polyamides, ABS, polyurethanes, epoxies, polyesters, and rubbers. It leaves a very thin, dry film, which does not run. This leads to:

- Easy demolding, even for the most complicated geometries.
- A superior surface finish on the demolded parts (avoiding surface defects such as roughness, streaks, and wrinkles).

Compatible with most plastics, rubbers, and metallic surfaces.

DÉMOPLAST® 750 will not generate corrosion on molds.

DÉMOPLAST® 750 facilitates ejection, eliminates problems such as superficial voids and spider web defects on the surface, and produces very excellent surface finish without roughness, streaks, wrinkles or stains.

DÉMOPLAST® 750 works well as a non-stick agent in the treatment of precision mold castings in the "lost wax" process.

### APPLICATIONS

**PLASTIC and RUBBER Industry:** Plastic and Rubber mold release, particularly plastics intended for finishing operations (painting, silk screen printing, bonding, or any decoration).

**FOOD Industry:** Anti-adhesive treatment of molds, lubrication of belt systems, treatment of guides and cutters of skin-pack operations.

**PAPER Industry :** Treatment of press platens in paper mills

**PRINTING Industry:** Treatment of cutting mechanisms.

**PACKAGING Industry:** Treatment of belts and guides.



Laser handles



Connectors and Threaded adapters



Computer body



Valve body

## RELEASE AGENTS

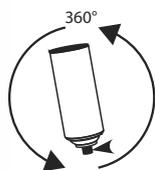


H1 - N° 146626  
Food Grade Certified

Expiration date extended

4

Years



# DEMOPLAST<sup>®</sup> SIL 850

## MULTI-PURPOSE NON-STICKY SILICONE AEROSOL

Lubricates, releases molds, waterproofs, polishes and protects metal and non-metal surfaces.

NSF H1 certified for Food Industry  
Biologically inert, odorless, non-staining, non-sticky lubricating film for the protection of all metal and non-metal surfaces, such as thermoset, thermoplastic elastomers, wood, stone or concrete.

Datasheet link: [www.demoulantlubrifiantsilicone.com](http://www.demoulantlubrifiantsilicone.com)

**PRODUCT APPROVED FOR THE FOOD INDUSTRY  
IN ACCORDANCE WITH PRINCIPLES OF  
THE HAZARD ANALYSIS AND CRITICAL CONTROL POINT  
(HACCP) SYSTEM ADOPTED BY  
THE CODEX ALIMENTARIUS COMMISSION - ISO 22 000.**

NSF Category

**H1 Food-Grade Lubricant** : May be used in applications where incidental food contact may potentially occur. Can be used as a corrosion inhibitor, to prevent tank lid seals from sticking and as a lubricant for equipment in food processing areas.



Slip agent used on conveyors in PET and Vacuum Skin Pack operations.



Bottling, Capping

### DESCRIPTION

Multi-purpose, non-greasy spray for difficult mold release and lubrication in a clean operational environments.

Colorless, odorless, clean lubricating film with non-staining and anti-stick properties.

Repels Water and adds luster to surfaces.

Especially effective in providing resistance to mold and fungus growth. Leaves a polished sheen on parts removed from molds.

Provides shielding against sparks and welding spatters on materials not intended for coating or painting processes.

Can be used on all materials such as wood, plastics, elastomers, rubber, vinyl, steel, carbon steel, chrome steel, and light or copper alloys.

**Guaranteed Free of : CFC, T111, Dichloromethane, Tetrachloroethylene, Trichloroethylene and aromatic compounds.**

### APPLICATIONS

**AUTOMOBILE INDUSTRY:** Polishes, renews natural and imitation leathers, lubricates electronic mechanisms and protects locks against frost.

**CONSTRUCTION INDUSTRY:** Promotes water repellency and beading effect. Waterproofs stones, concrete, roofing framework, structural work, agglomerate materials.

**FOOD PROCESSING:** Anti-adhesive treatment of molds, threads, tube punching machinery for cork stoppers and conveyor belt lubrication.

**PLASTIC INDUSTRY:** Plastic and Rubber mold release agent.

**LEATHER INDUSTRY:** Waterproofs, lubricates and conditions.

**MECHANICS:** Anti-Adhesive processes for welding nozzles, parts and sheet metals.

**ELECTRONICS INDUSTRY:** Harsh environment protection for non-welded materials.

**PAPER MILLS:** Processing of insulating materials.

**Pharmaceutica :** Anti-adhesion pour granulating, capping and compression.

**Wood:** Treatment of press plates.

**PRINTING:** Treatment of automated paper cutters / punch and matrices.

**PACKAGING :** Used in Blister packing and Skin packing processes.

## RELEASE AGENTS



Datasheet Link: [www.demoulantplastique.com](http://www.demoulantplastique.com)

**PRODUCT APPROVED FOR THE FOOD INDUSTRY  
IN ACCORDANCE WITH PRINCIPLES OF  
THE HAZARD ANALYSIS AND CRITICAL CONTROL POINT  
(HACCP) SYSTEM ADOPTED BY  
THE CODEX ALIMENTARIUS COMMISSION - ISO 22 000.**

NSF Category - 20 L

**H1 Food-Grade Lubricant** : May be used in applications where incidental food contact may potentially occur. Can be used as a corrosion inhibitor, to prevent tank lid seals from sticking and as a lubricant for equipment in food processing areas.

## DEMOPLAST<sup>®</sup> 795

### RELEASE AGENT FOR 2D AND 3D EXTRUSION BLOW MOLDING

Improved distribution of substances used to produce complex technical parts.



Mold Release of complex geometries processed in blow molding of polyalphaolefin (Aeronautical Industry).

## DEMOPLAST<sup>®</sup> 780 HT

### SILICONE-FREE NON-STICK LUBRICANT MOLD RELEASE

Ideal for rubber, thermoplastic elastomers, thermoset and composites.  
Formulated for loaded, porous, laminated materials,  
Anti-adhesions for hot molds and complex parts  
NSF H1 - 20 L CERTIFIED for FOOD Industry  
May be painted, welded and is compatible with any other surface treatment.

#### DESCRIPTION

Special plastic mold release for hot runner systems.  
Multi-purpose product formulated for use as a substitute for silicones in difficult demolding operations.  
Allows for coating operations: painting, silk screen printing and other decorative processes.  
Colourless, odorless product. Non-sticking at interfaces.  
May be used as a lubricating agent in clean rooms, but also in compression, waterproofing, surface or polishing operations and as an anti-spatter in welding.  
May be used on all materials, such as steel, plastics, elastomers, and wood.  
May also be used on surfaces before painting to inhibit the adverse effect of silicones.  
Guaranteed Free of CFC, T111, Dichloromethane, Tetrachloroethylene, and Trichloroethylene.  
Also free of benzene and aromatic compounds.

#### APPLICATIONS

Plastic injection treatment of hot molds.  
2D and 3D extrusion blow molding, non-stick for complex shapes.  
Mold release agent for polymers, thermosets and thermoplastics, including elastomers.  
Treatment of press platens in paper mills, cardboard mills, wood, abrasive cellulose fibres, recycled products.  
Slip agent for skins on PU cores in automotive manufacturing.  
Non-stick for polyurethane foam.  
Non-stick agent for mouldings, aluminium, ZamaK, lead.  
Demoulding of porous materials with mineral loads.  
Treatment of core boxes in pressure casting.  
Lubrication of guides, high-speed conveyors in the food industry.  
Treatment of cutters, shaping tools for blister packing and shells.  
High-speed stretching of PE films.

# NEOLUBE<sup>®</sup> SIL 2272



H1 - N° 149259  
Food Grade Certified



20 L Jerrycan  
Item Code  
515385

Datasheet link: [www.siliconensf.com](http://www.siliconensf.com)

- MULTI-PURPOSE**
- LUBRICANT**
- MOLD RELEASE**
- ANTI-ADHESION**
- WATER REPELLANT**
- PROTECTS**
- POLISHES**
- NON GREASY**



Long-term protection of porous concrete and stone.  
Waterproofs, Prevents foaming, Stain and Graffiti resistant

## **MULTI-PURPOSE LIQUID SILICONE FLUID**

Lubricants, Releases, Anti-adhesive,  
Waterproofs, Protects, Polishes  
Compatible and applicable with All Materials  
NSF H1 certified for Food Industry  
Application by low pressure spray  
makes product easy to use and control

### **DESCRIPTION**

This multi-purpose product can be used for all difficult demolding operations and lubrication problems in clean environments. It is clear, colorless and practically odorless and has been formulated with specific non-adhesive properties. Also may be used as a waterproofing agent and a shine/polishing agent. It gives a satin to glossy finish to surfaces of demolded parts. In addition, it is useful as an anti-spatter agent during welding on parts or sheets which are not intended for subsequent painting or coating operations. It is suitable for use on all materials, including wood, plastics, steel, carbon steel, chrome steel, and light or copper alloys. This product provides strong protection against the formation of mildew and fungus. Insulating fluid with high dielectric strength at 14 kV.mm-1. Coefficient of thermal expansion: 9/9.10-4 (cm<sup>3</sup>/cm<sup>3</sup>) in °F.

### **APPLICATIONS**

**AUTOMOTIVE INDUSTRY:** Use as a polish, renovator of natural or imitation leather. Lubrication of electrical mechanisms. Treatment of locks to prevent freezing.  
**CONSTRUCTION INDUSTRY:** Waterproofing of stones and concrete. Provides beading effect. Effective treatment of fiberboard and woodwork.  
**FOOD INDUSTRY:** Non-stick treatment of molds, mesh, nets, threads and in sealing corks and lubricating belts.  
**PLASTIC INDUSTRY:** Extrusion of rubber and all plastic materials.  
**LEATHER INDUSTRY:** Waterproofing of natural and imitation leather.  
**HOSPITALS:** Lubrication of equipment in patient rooms and operating rooms, such as medical railings, trolleys, shelving and traction devices.  
**FOUNDRIES:** Treatment of hot boxes, core boxes, general use, resin-shell mold casting, light alloys in Reboul wax.  
**MECHANICAL APPLICATIONS:** Anti-adhesive treatment for welding nozzles, parts and sheet metal.  
**ELECTRICAL ENGINEERING**  
Coating of porous insulators, capacitors, demolding of insulating casting compounds.  
**ELECTRONICS:** Harsh environments treatment for non-weldable parts.  
**PAPER MILLS:** Insulating treatment for paper and paper-based products.  
**PUBLIC WORKS MANAGEMENT:** Public furniture upkeep.  
**PHARMACEUTICAL PRODUCTS:** Non-stick for granulation, encapsulation, compression.  
**WOOD:** Treatment of press platens.  
**TEXTILES:** Extrusion of nylon wires.  
**WRAPPING, CANNERIES:** Treatment of transfer belts, sealing jaws.  
**PRINTING:** Treatment of cutters and dies.  
**PACKAGING:** Treatment of blister packing and skin pack dies.



# **INDUSTRIAL CLEANING / DEGREASING AGENTS**

Industrial cleaning / degreasing agent  
Degreasing cleaner for Mechanical Applications  
Industrial Floor Degreasing Cleaner  
Corrosive Inhibitor and Degreasing Cleaner  
Motorized Vehicle Degreasing Cleaner  
Food industry Degreasing Cleaner  
Non-hazardous Green Degreasing Cleaner  
HC, MOSH & MOAH FREE Degreasing Cleaner  
Degreasing Cleaner for Industrial Washing Systems

## DETERNET

### CONCENTRATED CLEANER DEGREASER CONTAINS 12% ACTIVE INGREDIENTS

Multipurpose Cleaner  
May be applied Neat  
or Diluted onto Any Surface  
Non-flammable, Biodegradable  
Non-toxic, Solvent-free  
Dual action Cleaning and Degreasing Agent  
Wipes clean, no rinsing required



750 ml Spray  
Item Code  
515226



5 kg Jerrycan  
Item Code  
515994

Datasheet link: [www.detergentflash.com](http://www.detergentflash.com)

#### CONCENTRATED CLEANER DEGREASER

##### MULTIPURPOSE CLEANER

**MAY BE APPLIED NEAT  
OR DILUTED ONTO ANY SURFACE**

**NON-FLAMMABLE, BIODEGRADABLE**

**NON-TOXIC, SOLVENT-FREE**

**DUAL ACTION CLEANING AND DEGREASING AGENT**

**WIPES CLEAN, NO RINSING REQUIRED**



Ideal for cleaning machine housings, tools, control room windows and  
in removal of soluble oil projections or leaks.

#### DESCRIPTION

DETERNET provides top-tier performance for most industrial cleaning operations.

Non-Flammable and Biodegradable, it contains no toxic substances and no trace of hydrocarbons.

DETERNET's strength as a scale-remover makes it ideal for frequent sanitary cleaning.

DETERNET concentrated formula may be used on any type of surface.

#### APPLICATIONS

DETERNET eliminates dust, oil and grease stains and deposits.

Efficient and versatile in industrial maintenance, public institutions, public works and house cleaning services.

#### INSTRUCTIONS FOR USE

Clean by cloth, brush or as a spray. Can be used diluted or undiluted.

May also be used in hot or cold high-pressure washing systems and in ultrasound tanks, by cold or hot immersion up to 140 °F.

#### PRECAUTIONS FOR USE

Do not discard into a wastewater sanitation system after use.

This product can freeze. Do not use on brightly finished parts or substrates of light alloy at concentrations exceeding 5%. Do not use undiluted or repeatedly on painted surfaces that are old or weakly cross-linked.

Wipe surface with cloth before adhesive operations.

Compatible with all materials which are not sensitive to water.

## BIOCLEAN® SAFE

### DEGREASING AND CLEANING AGENT FOR INDUSTRIAL APPLICATIONS

#### DEGREASING CLEANER FOR INDUSTRIAL USE CONTAINS 12% ACTIVE INGREDIENT

Triple action Cleaning, Descaling  
and Degreasing Power  
Can be used Pure or Diluted  
Non-toxic and solvent free  
Non-flammable and Biodegradable  
Eliminates oil, grease,  
inorganic contaminants and dust



Datasheet link: [www.detergentdesecurite.com](http://www.detergentdesecurite.com)



Cleaning and degreasing assembly line stations.

#### DESCRIPTION

BIOCLEAN® SAFE is formulated to respond to most industrial cleaning operations.

Nonflammable, BIOCLEAN® SAFE contains no toxic substances or hydrocarbon traces.

BIOCLEAN® SAFE is reinforced with descaling power for frequent cleaning.

BIOCLEAN® SAFE provides highly concentrated cleaning of all surfaces. Eliminates dust, oil and grease stains and deposits.

#### APPLICATIONS

Industrial maintenance and cleaning of wheels and rims of lightweight and heavy duty vehicles.

#### INSTRUCTIONS FOR USE

May be used pure or diluted in water.

Clean by cloth, brush or spray.

Refer to page 78 for percentages and instructions for use.

#### PRECAUTIONS FOR USE

Do not discard into a wastewater sanitation system after use.

This product can freeze.

Do not use on brightly finished parts or substrates of light alloy at concentrations exceeding 5%.

Do not use undiluted or repeatedly on painted surfaces that are old or weakly cross-linked.

Wipe surface with cloth before adhesive operations.

Compatible with all materials that are not sensitive to water.



A1 - N° 146624  
Food Grade Certified

## BIOCLEAN® AL HP

### DEGREASING CLEANER FOR TOUGH JOBS

#### CONCENTRATED FORMULA WITH 22% ACTIVE INGREDIENTS

NSF A1 Certified for the FOOD INDUSTRY

Effective cleaner for all surfaces, floors, equipment and machinery, fermentation quarters, packaging units and conveyor lines.

Powerhouse Wetting, Degreasing, Descaling



1000 kg IBC Container  
Item Code  
514941



200 kg Drum  
Item Code  
514648



20 kg Jerrycan  
Item Code  
514647



Product guaranteed to contain  
no HC no MOSH-MOASH

Datasheet link: [www.detergentnettoyant.com](http://www.detergentnettoyant.com)



Automated production lines in the Pharmaceutical Industry.



Packaging lines in the Food Industry.

#### DESCRIPTION

BIOCLEAN® AL HP is a highly concentrated alkaline cleaner specifically formulated for heavy cleaning jobs in industrial applications.

Effective removal of all animal, vegetable and mineral based contaminants.

BIOCLEAN® AL HP is especially recommended for the removal of natural contaminants like oil, grease and heavy and light hydrocarbons. Ideal for periodic cleaning of facility floors, equipment, drilling platforms, storage areas, and emergency cleanings in industrial settings and accidental spills.

BIOCLEAN® AL HP powerfully cleans and descales of inorganic particles and burnt residues.

It could be used to clean hot water heaters and to remove liquid inks, such as in flexography.

#### INSTRUCTIONS FOR USE

Dilute BIOCLEAN® AL HP in running water at a percentage between 2% and 20%, depending on the need of the cleaning job.

May be applied with cloth, brush or spray followed by high or low pressured rinse. Can also be used in brush wash machines or Ultrasound cleaning systems.

#### PRECAUTIONS FOR USE

Test before use on coated or weakly cross-linked painted surfaces.

Use pure to strip inorganic glass.

Do not use on highly polished lights alloys at a concentration higher than 5% in water.

## BIOCLEAN® SL 200

### DEGREASING CLEANER FORMULATED FOR FLOORS



Datasheet link: [www.detergentsol.com](http://www.detergentsol.com)

**CONTAINS 30 % ACTIVE INGREDIENTS**

**CLEANS, DEGREASES AND WASHES  
PAINTED FLOORS IN RESIN OR CONCRETE**

**DOES NOT DULL SHINE OF COATED SURFACES**

**STABLE IN HARD WATER**

**LIGHT FOAM ALLOWS FOR MONITORING OF WATER FLOW  
IN AUTOMATIC WASH SYSTEMS**

**DRIES WITHOUT MARKS**



Cleaning of floors with walk behind scrubbers or rider scrubbers, equipped with water flow control.

### 26 % ACTIVE INGREDIENT CONCENTRATED FORMULA

May be applied manually, with high pressure equipment or with brush-wash systems.

Light foam allows for visual control of water flow.

No rinsing or drying required

Non-slippery

Effective against all contaminants, including Inks and Resines.

Dilution functional from 2 % in water

### DESCRIPTION

BIOCLEAN® SL 200 is a complex cleaner that is particularly suitable for cleaning highly polluted surfaces of low porosity. Equipped with descaling power for effective removal of organic and inorganic pollution. Low foaming formula.

### APPLICATIONS

Cleaning, degreasing and washing of painted industrial floors, both resin and concrete. Suited for highly soiled floors in busy industrial areas.

May be used with brush cleaning systems, high pressure cleaners or motorized floor scrubbers.

Efficient for cleaning drainage channels and gutters and for manual cleaning of stainless steel or painted production line equipment.

### PRECAUTIONS FOR USE

Do not use on shiny light alloy parts or substrates in concentration above 5 %.

BIOCLEAN® SL 200 may be used from 3 à 10 % dilution in water, according to the level of contamination.



Eliminates Tire  
and Skid Marks



Eliminates greases and lubricants.

## BIOCLEAN<sup>®</sup> MECA 300

### SUPER CONCENTRED CLEANER FOR USE ON MECHANICAL PARTS



Datasheet link: [www.detergentmecanique.com](http://www.detergentmecanique.com)

**CONTAINS 40 % ACTIVE INGREDIENTS**

**CLEANS, DEGREASES AND WASHES  
PAINTED FLOORS IN RESIN OR CONCRETE**

**WON'T DULL SHINE OF COATED SURFACES**

**STABLE IN HARD WATER**

**LIGHT FOAM ALLOWS FOR MONITORING OF WATER FLOW  
IN AUTOMATIC WASH SYSTEMS**

**DRIES WITHOUT MARKS**



Degreasing, cleaning and washing mechanical components in ultrasonic cleaning with piezoelectric or magnetostrictive transducers.

Cleaner, Degreaser  
40 % Active Ingredients  
Contains Anti-Corrosion Agent  
Eliminates grease, oils, lubricants,  
cable and wire-drawing soaps,  
and protective waxes.  
May be used in immersion parts washers,  
soak tanks, ultrasonic tanks,  
cold or warm cleaning systems  
with scrapers, wipers, squeegee blades  
felt or by wiping clean.

#### DESCRIPTION

Extremely active on all pollution such as oil, grease, wax, inorganic pollution. Usable pure or diluted.  
Usable on a cloth, with a brush, spray washers, in cold or warm temperatures, in ultrasonic vibration cleaning machines or high or low pressure spray cleaning systems.

#### APPLICATIONS

Cleaning of metal parts, painted or coated surfaces and plastic materials.  
Degreasing of mechanical parts, surface preparation before painting. Degreasing of plastic injection molds, in glass-making and in welding applications. Tool and Die machining. Removes lubricants used for pulling cables through immersed or bundled conduits. Degreases and cleans power transmissions.

#### PRECAUTIONS OF USE

Do not use on shiny light alloy parts or substrates in concentration above 5 %.  
Test before use on coated or weakly cross-linked surfaces.  
Do not discard into a wastewater sanitation system after use.



Degreasing and cleaning of parts in basket washers with translational or rotational mechanical movement.



Degreasing of mechanical components in cold or hot immersion.

## BIOCLEAN® C 350

### HIGHLY CONCENTRATED DETERGENT CLEANER SPECIALLY FORMULATED FOR VEHICLE BODIES BODY SHOPS



1000 kg IBC Container  
Item Code  
515737



200 kg Drum  
Item Code  
514650



20 kg Jerrycan  
Item Code  
514649

Datasheet link: [www.detergentcarrosserie.com](http://www.detergentcarrosserie.com)

**DYNAMIC BLEND OF SURFACE ACTING AGENTS  
EFFECTIVE WETTING, EMULSIFYING,  
FOAMING AND SCALE REMOVAL.**

**GUARANTEED FREE OF NTA CMR CAT. 2 H351 H302 H319  
FREE OF DTPA H319 H332 H361  
FREE OF EDTA H318 H373 H302 H332  
GUARANTEED SOLVENT-FREE AND PHOSPHATE-FREE**

**HIGHLY CONCENTRATED FORMULA  
WORKS FROM 2% DILUTION IN WATER**

**SUITABLE FOR USE ON ALL SURFACES:  
METALS, PAINTS, GLASS,  
THERMOPLASTIC AND THERMOSET MATERIALS**

**FAST DRYING, NO RINSING REQUIRED  
SHINES AND PREVENTS STATIC**



Contains 40% active ingredients  
Guaranteed free of NTA, EDTA and DTPA  
Rapid action formula  
Works with all washing systems  
Cleans, washes, removes scale  
Removes traffic film / road grime  
Leaves high gloss finish  
Suitable for all painted surfaces,  
Cars, vans, trucks and HGV bodies and parts  
Public transport vehicles,  
External coatings, framework, gelcoats

#### DESCRIPTION

BIOCLEAN® C 350 is a highly concentrated cleaning detergent. Its self-activated formula washes and cleans vehicles exposed to extremely dirty and highly polluted environments. Particularly recommended for cleaning tarp and light-colored vehicles, on which road grime and traffic film is highly visible. Very effective, even for the worst grime: marks left by fuel, oils, tar, insects, etc.

#### APPLICATIONS

Cleans vehicle bodies, as well as chassis, sideboards, frames and longerons.  
Recommended for use in heated removal procedures of polymer-based protective wraps on new vehicles.  
Cleans machine-tool frames/mounts and inspection windows in PMMA.  
May be used with automatic deodorizing floor cleaners.  
Degreasing and cleaning of refuelling zones, particularly effective for diesel fuel and light or heavy fuel pollution.

#### ADVICE AND PRECAUTIONS FOR USE

When applying manually by spray wash, work from the bottom upwards.  
When rinsing with a high pressure system, set the rinsing pressure to 120 bars.  
Proceed from the top downwards, to prevent dirt from being redeposited.

Do not use on aluminium substrates or on polished steel surfaces at concentrations above 3 % diluted in water.



## BIOCLEAN® ML 700

### CONCENTRATED CLEANING AGENT for INDUSTRIAL WASHING SYSTEMS

CONTAINS 75 % ACTIVE INGREDIENTS

GUARANTEED  
PHOSPHATE SODIUM HYDROXYDE  
NTA EDTA DTPA  
**FREE**

NON FOAMING ANTI CORROSION

**CLEANING AGENT FREE OF STRONGLY ALCALINE,  
CORROSIVE OR OXYDIZING AGENTS.**

#### DESCRIPTION

BIOCLEAN® ML 700 detergent, with 75% active ingredients, is non-foaming and prevents corrosion. This product is completely stable, even in hard water. It is used in cleaning and degreasing all metals, plastics or composites. It has low pH level and does not contain strongly alkaline, oxidizing or corrosive substances. Excellent corrosion inhibitor (HERBERT test) from 10% dilution in water, including cast iron and all steel grades.

#### APPLICATIONS

Degreasing, cleaning and washing of all mechanical components or machined parts in medium or high pressure spray washing machines, rotating or translating basket machines, ultrasonic, piezoelectric or magneto-stretchable tanks. Removal of soluble and whole cutting oils. Releases waxes and organic or inorganic pollutants.

#### INSTRUCTIONS FOR USE

Effective from 10% dilution in water depending on the level and type of soiling.



200 kg drum  
Item Code  
516598



20 kg Jerrycan  
Item Code  
516597

Datasheet link: [www.machinedelavageindustriel.com](http://www.machinedelavageindustriel.com)

**DEGREASING IN INDUSTRIAL WASH SYSTEMS  
MEDIUM AND HIGH PRESSURE SPRAYS  
ROTATING BASKETS OR TRANSLATION  
IN PIEZO-ELECTRIC AND MAGNETO-STRICTIVE  
ULTRASONIC BOXES**

**HIGHLY ACTIVE DEGREASING  
FROM 10% DILUTION IN WATER**

**TOTALLY STABLE IN HARD WATER**

**CORROSION INHIBITOR FOR ALL GRADES OF STEEL  
FROM 5% DILUTION IN WATER**



Ultrasonic bins



Spray washing machines



Basket washers in rotation or in translation

# BIOCLEAN® VG 55

**SUPER SAFE / SUPER CONCENTRATED**  
**THE FIRST ULTRA-CONCENTRATED**  
**INDUSTRIAL DETERGENT**  
**CONTAINS 55 % ACTIVE INGREDIENTS**  
**BIO-SOURCED SURFACTANTS**  
**FROM MARINE AND PLANT ORIGINS**

**NO WARNING LABELS**  
**NO DANGER SYMBOLS**

CLP/GHS REGULATION 1272 2008

Guaranteed NTA-free, DTPA-free and EDTA-free

No solvents, phosphates or sodium hydroxide (lye)

Easily and quickly biodegradable, VOC free, regulated pH

High Performance wetting, dissolving, emulsifying, degreasing and cleaning

## THE MEETING OF GREEN CHEMICALS AND BLUE CHEMICALS

European Regulation CLP 1272/2008, in effect since June 1st, 2015, and the UN Globally Harmonized System of Classification and Labeling of Chemicals (GHS) have had a major impact on the marketing of chemical products worldwide. Today, practically all chemical products are obliged to integrate hazard pictograms and precautionary statements onto their labels.

Jacques P. TARDIF



Technical Director

This EC Directive also concerns industrial detergents.

Our laboratories developed **BIOCLEAN VG 55 SUPER SAFE / SUPER CONCENTRATED**, the first detergent absent of any WARNING LABELS and completely RISK-FREE.

This innovation unites our expertise in the fields of both GREEN and BLUE chemistry.

**BIOCLEAN® VG 55** is a concentrated formula based on Coconut Oil Fatty Acids and Marine Polysaccharides.

Moreover, **BIOCLEAN® VG 55** is totally free of the chelating and sequestering agents:

EDTA, ethylene diamine tetraacétique, classe H 318, H 373, H 302, H 332

DTPA, acide diethylene triamine penta acétique, classe H 319, H 332, H 361

NTA, acide nitrilotriacétique **CMR** category 2, classe H 351, H 302, H 319

**BIOCLEAN® VG 55** naturally contains absolutely no solvents or phosphates.

**BIOCLEAN® VG 55** combines an ideal and dynamic blend of wetting, dispersing, emulsifying, degreasing and cleaning agents, to achieve top-knotch cleaning operations.

This high performance detergent is concentrated with 55% active ingredients, thus avoiding the expense of transporting water and thereby, reducing the carbon footprint of the product within the context of ISO standard 14 040. This method is particularly advantageous for overseas shipping.

Clear and odorless, **BIOCLEAN® VG 55** is intended for formulators and distributors who in turn, dilute our product with water from 25% to 75%, producing a final concentration of 14% of active ingredients. The result is a concentration that can then be used from 2%. Adding a fragrance or a dye, which may have an environmental impact on the final product, remains an option in terms of marketing.



1000 kg IBC Container  
Item Code  
515734



200 kg Drum  
Item Code  
515767



20 kg Jerrycan  
Item Code  
515769



Datasheet link:  
[www.detergentindustriel.com](http://www.detergentindustriel.com)

# BIOCLEAN® INDUSTRIAL CLEANING / DEGREASING AGENTS

- MODES D'UTILISATION -

**BIOCLEAN®  
SAFE**

**BIOCLEAN®  
AL HP**

**BIOCLEAN®  
SL 200**

**BIOCLEAN®  
MECA 300**

**BIOCLEAN®  
C 350**

**BIOCLEAN®  
ML 700**

**BIOCLEAN®  
VG 55**  
SUPER SAFE  
SUPER CONCENTRATED



Low pressure brush and spray

● ● ●  
from 10 %  
with water

● ● ●  
from 5 %  
with water

● ● ●  
from 5 %  
with water

● ● ●  
from 0,5 %  
with water



High pressure systems

● ● ●  
from 10 %  
with water

● ● ●  
from 8 %  
with water

● ● ●  
from 5 %  
with water

● ● ●  
from 1 %  
with water



Floor cleaning equipment

● ● ●  
from 8 %  
with water

● ● ●  
from 1 %  
with water

● ● ●  
from 1 %  
with water



Brush Frame systems

● ● ●  
from 5 %  
with water

● ● ●  
from 1 %  
with water



Jet spray Tunnels

● ● ●  
from 6 %  
with water

● ● ●  
from 1 %  
with water



Hot foam strayers.

● ● ●  
from 2 %  
with water

● ● ●  
from 0,5 %  
with water



Ultrasound Tanks

● ● ●  
from 10 %  
with water

● ● ●  
from 5 %  
with water

● ● ●  
from 5 %  
with water

● ● ●  
from 5 %  
with water

● ● ●  
from 1 %  
with water



Rotary basket or rack system washers

● ● ●  
from 5 %  
with water

● ● ●  
from 5 %  
with water



Spray jet washers

● ● ●  
from 5 %  
with water

● ● ●  
from 5 %  
with water



# ANTI-SPATTER WELDING

Anti-spatter for Weld Nozzles and Sheets

Anti-adhesive for Weld Spatter

Water-based Anti-Spatter

# ANTI-SPATTER WELDING



## AS 10

### WATER BASED ANTI SPATTER SPRAY

Non-flammable, Solvent-free,  
No fumes, VOC-free  
Prevents Corrosion and Rust  
No Need for Surface Prep Degreasing  
for additional operation to welded parts  
Welding, Soldering, Brazing  
Arc Welding, MIG et MAG, CO<sub>2</sub>,  
Argon, ATAL or combined methods

#### For Welding Nozzles, Jigs, Plates and Parts.

**Non-flammable,  
Solvent-free,  
No fumes,  
Prevents Corrosion and Rust  
Zero or very limited surface prep needed  
for additional operations to welded parts**



#### DESCRIPTION

Anti-Spatter Spray provides weld prep protection on parts, panels and fixtures.  
Suitable for all sized nozzles and all orifices or thread sizes, including high intensity operations.  
Does not stain and rinses easily.  
Anti-corrosive. Will not rust metal parts.  
Silicone-Free, Metal-free, Graphite-free and Solvant-free.  
This anti-spatter agent may be used on all surfaces and is suitable for all methods of welding, soldering, brazing, manual or fully automated Arc Welding, MIG et MAG, CO<sub>2</sub>, Argon, ATAL or combined methods. It allows for the reworking of defects and does not contribute to weld cracking.

#### AREAS OF USE

Mechanical engineering.  
Electro-welded material.  
Electric motors.  
Shipbuilding.  
Railway construction.  
Automotive engineering.  
Manufacture of welded rolled nozzles.  
Machines Manufacturing.





Datasheet link: [www.antiadherentgrattons.com](http://www.antiadherentgrattons.com)

## For Welding Nozzles and Plates

**Non-flammable**

**Effective with All Nozzle Sizes**

**Works on Vertical and Horizontal surfaces**

**Suitable for Welding / brazing,**

**Arc Welding, including automatic techniques**

**No effect on weld seam and does not generate cracks.**

**Prevents Corrosion and Rust**



# AS 50

## PREVENTS ADHESION OF WELD-SPATTER NON-FLAMMABLE WORKS ON WELD GUNS, NOZZLES, TORCH HEADS SHEETS AND FIXTURES

Anti-weld Spatter Spray  
Reduces defects and damage  
to workpieces, welding nozzle  
and other accessories.

Suitable for all sized nozzles,  
and all Welding methods,  
including Automatic techniques.

No effect on weld seam.

Does not generate cracks.

Allows for trouble-free reworking of defects  
and finishing processes.

## DESCRIPTION

Non-flammable, anti weld-spatter spray.

Advised for all solder wire diameter sizes, nozzles and tips of all orifice sizes, including high intensity techniques.

Does not stain, odorless. Prevents rusting of metallic parts.

Free of silicon, metallic particles and graphite.

Effective protection of welding nozzles for continuous periods of operation, facilitating economic, uninterrupted welding.

Works on Vertical and Horizontal surfaces.

Can be used with a wide range of welding, brazing and soldering technical, in manual, semi-automated and fully-automated welding applications; PAW, TIG, GTAW, MAG, MIG, GMAW with ARC, Pressurized CO<sub>2</sub>, FCAW, SMAW, SAW and flash butt welding.

Allows for the reworking of defects and does not generate weld cracks. Insures the protection against corrosion and rust of parts before reworking or finishing.

## AREAS OF USE

Protection of metallic sheets from weld spatter and corrosion.

Protection of nozzles and tips of all orifice sizes.

Mechanical engineering.

Electro-welded material.

Electric motors.

Shipbuilding.

Railway construction.

Manufacturing of welded tubes and industrial piping.

Manufacturing of machinery, tanks and silos.

## INSTRUCTIONS FOR USE

Shake can vertically for a few moments.

Spray at a distance of about 15 cm from the surfaces to be protected from spatter.

Spray onto cooled nozzles.

For future applications, clean surface with a plant-based solvent.

This aerosol spray can be used in any position.



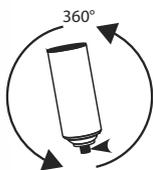
# **SAFETY, SECURITY AND CHECKS**

Gas Leak Detector

Dry Inert Gas Dust Spray

Smoke Alarm Detector Tester

Expiration date extended  
**5**  
Years



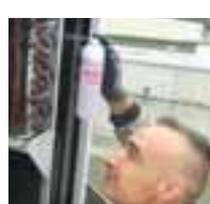
**Gel Formula for tracing leaks on vertical surfaces.**  
**Effective detection of mini leaks and leaks under low pressure.**  
**Excellent surface tension enables the product to remain in place for detection of all leaks.**  
**Non-corrosive**

# DETECT 1000

## MULTI-GAS LEAK DETECTION SPRAY

Non-corrosive, Oxygen-Safe  
Suitable for all materials  
Gel Formula for tracing leaks on elevated or vertical surfaces.  
Can be used on pure oxygen conduits and connections up to 150 bars.  
Highly sensitive and excellent precision in locating source of leaks.  
Great superior to electronical detection devices.

Datasheet link: [www.detecteurdefuites.com](http://www.detecteurdefuites.com)



I use iBIOTEC DETECT 1000 for finding the exact location of refrigerant leaks. Electronic detectors give only a basic overall localization of leaks. The advantage of IBIOTEC DETECT 1000 is that the pressure remains constant, even in a low temperature environments. The leak detector I used previously didn't pump well when it was cold and produced very few bubbles.



I often work high up on a stool or a ladder, which is not easy. Finally, a leak detector product that you don't have to worry about dripping into your eyes when you're looking for a leak on ceiling area pipe-lines. Also, it's easy to apply this product on just the area where I want it to go.



The aluminum aerosol spray is a great idea - but more importantly for us at PAC, is the 4-year lifespan of this leak detection spray. We have several vans which are mobilized for troubleshooting. I put an aerosol in each vehicle. The detection of gas leaks is not an job we're called to do on a daily basis but you always need the product on hand just in case. Being able to keep it for 4 years is a huge advantage.



I have nothing but praise for this product. Checking a new installation in a cafeteria or checking a compressed air pipe connection for leakage are two very different jobs. This product is perfect for either situation. It even helped locate a leak on a gas line at 16 bars.



Kudos go to TEC INDUSTRIES SERVICE for their innovative gas leak detector IBIOTEC DETECT 1000. After so many aerosol cans being pierced in my toolbox by screwdrivers, I'm happy to finally find one that's rust proof and tough enough for my toolbox!

### DESCRIPTION

A natural characteristic of the liquid and gaseous fluid in an aerosol is to seek escape from their containers. This is true, especially, if the container has a slight deformation and thus results in leakage. The sealing power of a container corresponds to its ability to contain the fluid enclosed within it. The measure of its ability to do so is defined by its opposite - that is to say, the permeability of the container - or rather, the extent to which it allows its contents to escape or leak. There are two easy and convenient ways to distinguish the sealing properties of different containers, containing the same fluid:

**Volumetric sealing power:** Relating to the continuous surface of a container.

**Sealing Power of an assembly:** Relating to the junction of two continuous surfaces, distributed between static seals and dynamic seals, in translation or in rotation.

It should be noted that, because of their particular molecular nature, a "perfect" seal is impossible to obtain, especially with gaseous contents.

To specify "absolute watertightness" is an unrealistic expression and should be prohibited. However, very high degrees of sealing can be achieved. The quality of sealing power can be defined in three classes, as follows: rigorous, relative, controlled.

It should be noted that in most cases, a leak is random and very often it can change over time. It will not always be the same at the beginning or at the end of a mechanism's life. For this reason, it's important to specify the maximum acceptable limits and to carry out permanent checks.

DETECT 1000 allows the measurement of all sorts of gas leaks and is part of a general method that does not require any special equipment.



Datasheet link: [www.soufflantdepoussierant.com](http://www.soufflantdepoussierant.com)

**Compressed Air Dusting Spray**  
**Non-flammable**  
**Dry blast of Inert Gas**  
**Dries and removes dust,**  
**dirt and other loose contaminations**



87,5 % of hard disk computer breakdowns are due to dust and 20,4 % of these occur during the first 3 years of operation.

## NEUTRALENE<sup>®</sup> SD

### CANNED AIR DUSTER

Non-flammable  
Dry blast of Inert Gas  
Eliminates moisture, particles, dust on optics,  
electronic devices, clocks, watches,  
and other time keeping devices,  
photograph and cinematographic equipment,  
Reprography,  
Measurement and analysis equipment,  
Guaranteed  
Ether-Free  
Butane-Free  
Propane-Free

#### DESCRIPTION

Multi-purpose duster-cleaner eliminates moisture, dust, lint and other particles from areas difficult to access, complex geometries and parts sensitive to cleaning solvents.

Provides a clean, precise blasts of spray with no loss of pressure.

Non-flammable and safe.

Can be used on devices during operation.

Guaranteed Free of Butane and Propane and Ether.

#### APPLICATIONS

Optical instruments and Electronic devices

Photograph and cinematographic equipment

Office equipment, keyboards, trackball, mouse, and screens

Telephones and DVD players

Measurement and lab analysis equipment

Printing and Reprography

Clocks, watches and other time keeping devices

#### INSTRUCTIONS FOR USE

Do not shake before use.

Spray one blast at a time or about 20 cm from surface.

Continue by short repeated blasts of spray.

Spray can be used in any position.



Precision cleaning and particle removal from optics and frames.

Expiration date extended  
**5**  
Years



Datasheet link: [www.gaztestdaaf.com](http://www.gaztestdaaf.com)

**2 nozzles are included with each aerosol spray:**

- 1. for use with pole and bowl**
- 2. for manual use**



**Simulates the same type of smoke as that recognised at the start of a fire**

**Guarantees continual performance of smoke detectors and ensures the highest safety standards.**

**Large Industrial format:**

**250 ml Net Volume for 5" Test : 100**

**Can be used manually or by dispenser pole**

**Non-flammable, effective**

**Environmentally-safe smoke detector testing**



## DETECT GEF 2000

### TEST GAS

**for the maintenance of SMOKE and FIRE ALARMS**

**with central surveillance systems (SSI) Fire Safety Systems DAAF approved (CE, EN 14 604, NF)**

For older ionized smoke detectors or new optical or photoelectric devices.  
Smoke simulator for functional or operational tests.  
Non-flammable, non-greasy, environmentally friendly  
Guaranteed FREE of flammable and explosive butane and propane  
Guaranteed Free of fluorinated greenhouse gas HFC 134 Directive F Gas 517.2014

Installation of autonomous smoke detectors in residential houses and dwellings is an obligation of the MORANGE law since March 8th, 2015. Due to a lack of supply of devices, this obligation was postponed until 1st January 2016 by the MACRON law.

Ionic autonomous smoke detectors, which were installed as a matter of urgency, are now prohibited and considered very dangerous to human health due to a patch of Americium 243, which emits radioactive charged particles, being contained within their ionization chambers. The directive of November 18th 2011, which detracts from article 1333-2 of the Public Health Code, had not been taken into account in 2015.

Autonomous smoke detector owners – including fire detection professionals and maintenance operators – are hereby required to replace devices dated prior to 31st December 2017 with optical or photo-optical detectors.

As these detectors must be declared with insurance companies, it is important to consider what would happen in the event of disaster or installation failure. If such an event were to happen, it would be too late to read the ever-famous Insurance Code. Added to that is the fact that a very large number of test gas aerosols on the market are filled with dangerous butane-propane propellant gases. Extremely flammable and explosive, it is quite surprising that such a flammable gas for testing fire detectors is still allowed on the market. Unfortunately, the large number of serious accidents that occur due to gas leaks in buildings is far too common. And yet, it is interesting that butane and propane aerosols have been banned from sale in supermarkets for many years.

Butane and propane present the same dangers in the home environment as at industrial sites with deliberate emissions. Since butane/propane is described as a very volatile gaseous organic compound (VOC), its emissions are regulated in industrial settings for environmental reasons. As a toxic and pathological risk to the human organism, penetration of VOC's into the body is likely to produce various toxic metabolites that spread into the organs by reaction with proteins or nucleic acids.

On the basis of the existing evidence, fire protection professionals have begun using gas aerosols which contain a non-inflammable propellant: HFC 134 a. HFC 134 a has a global warming potential of 1300 – almost ten times greater than the maximum limit (150) authorised by the Directive F.GAZ 517/2014; a directive which, as of January 1st 2018, will prohibit the production of this gas and its marketing, and mandate that all packages that contain it be withdrawn from the market and destroyed.

DETECT GEF 2000, developed by iBiotec, now offers a long-term solution. Non-flammable, zero PRP and zero ODP, it can be used with all types of detectors.



# **PAINT STRIPPERS**

Paint Stripper for Sealing Surfaces

Paint Stripper for Graffiti

Paint Stripper for paints, resin and varnish

Paint Stripper for Injection Molds

Plant-based Paint Stripper Fluid



Datasheet link : [www.decapantecologique.com](http://www.decapantecologique.com)

GUARANTEED FREE OF  
METHYLENE CHLORIDE - NEP - NMP

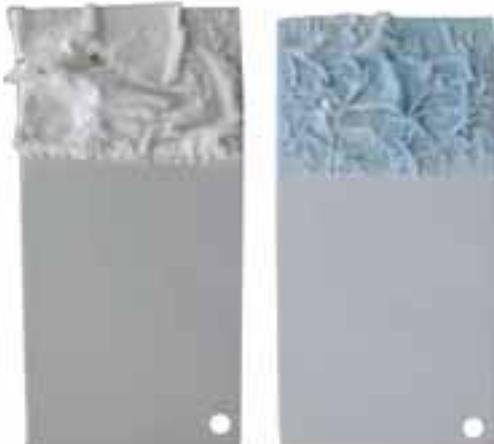
FREE OF CAUSTIC SODA  
FREE OF FORMIC ACID

NON-FLAMMABLE  
BIODEGRADABLE

FAST STRIPPING OF  
ALL PAINTS, RESINS, VARNISHES

ON ALL BASE SURFACES, ALL MATERIALS

GUARANTEED ACID-FREE  
NO RISK OF METAL CORROSION



## DECAP STRIP VG

### PLANT-BASED STRIPPER FLUID

#### DESCRIPTION

There are specific stripping methods for every combination of coating and substrate. The choice of a stripping technique, whether chemical, pyrolytic or mechanical, depends on specific criteria:

- the nature of the base (paint bases)
- the size of the object to be stripped
- surface accessibility of the area to be stripped
- and, in certain cases, whether or not it is possible to remove a part for shipping to a specialist.

#### CHEMICAL STRIPPING

In most cases, stripping ingredients act very quickly on a wide variety of paints containing CMR (Carcinogenic, Mutagenic, Reprotoxic) substances, such as Methylene Chloride, NMP or NEP.

**DECAP STRIP VG** is an innovative quick action stripper, based on bio-sourced plant-based derivatives. This product is often used for ecological chemical stripping.

**DECAP STRIP VG** is a non-flammable, easily biodegradable, PR- Free solvent and is classified as a contributor to the reduction of VOC emission.

Powder and liquid paints and coatings

Naturally drying

Alkyds

Cellulose-based

Polyester

Synthetic Rubber

Phenolic Resins

Vinyl

Aminoplasts

Acrylics

Polyurethanes

Polycarbamides

**DECAP STRIP VG** can also be used to remove photocatalytic "intelligent" paints and varnishes, electro-magnetic insulators, photochromes, Lotus effect water repellents and technical varnishes for glazing.



# PAINT STRIPPERS



Datasheet Link : [www.decapantfort.com](http://www.decapantfort.com)

**Paint Remover / Stripper**  
**Thixotropic Stripping Compound**  
**May be used on vertical surfaces**  
**Reinforced**  
**Fast Action Formula**



## DECAP 5000

### FAST ACTING STRIPPER SPRAY

SPECIALLY FORMULATED FOR REMOVING THE TOUGHEST COATINGS:  
EPOXY, POLYURETHANES AND OTHER HIGH STRENGTH COATINGS,  
HARDENED GASKETS AND SEALS.  
GEL CONSISTENCY ADHERES TO VERTICAL SURFACES  
HEAVY DUTY  
FAST ACTION

#### DESCRIPTION

**DECAP 5000** is an extremely active stripper for multi-layered paints, highly cross-linked surfaces and tough jobs, such as :

**DECAP 5000**, a thixotropic compound, allows for no-run application on vertical surfaces..

Presented in aerosol spray for precise application to reach difficult areas.

**DECAP 5000** is Phenol-FREE and acid formic-FREE

#### AREAS OF USE

AUTOMOTIVE ENGINEERING - Removal of polysulfide joints, silicone casings.

CONSTRUCTION, BUILDING - Removal of polysulfide joints on double-glazed windows.

CHEMICAL INDUSTRIES - Removal of temporary markings.

LOCAL GOVERNMENTS, PUBLIC SPACES - Graffiti Removal.

#### INSTRUCTIONS FOR USE

Shake vertically before use.

Spray DECAP 5000 about 15 cm from the surface to be treated, let stand until the paint separates from the surface. Scrap clean with spatula.

Repeat the operation as needed.

Aerosol can be used in all positions. Do not use on plastic materials that may be sensitive to organic solvents without first testing compatibility.

# PAINT STRIPPERS

Expiration date extended  
**5**  
Years



Non-flammable  
Inert Plant-based  
Propellant  
3 %

Active  
ingredient  
97 %

## DECAP 1000

### PAINT STRIPPING REMOVER FREE OF CHLORINATED SOLVENTS NMP and NEP FREE

For all paints including powder, varnish, resin, UV resin, graffiti, one-component coatings and two-component coatings and thermoset.

Heavy Duty paint remover,  
Gel formula

Effective for use on Vertical Surfaces.  
Removal of styrene residues  
on plastic injection molds.

Datasheet link: [www.decapantaerosol.com](http://www.decapantaerosol.com)

**Gel formula for  
Improved efficiency on vertical surfaces**

**Free from Chlorinated Solvents  
Zero N-Methyl-2-pyrrolidone**

**Suitable for all types of coatings  
single-pack, dual-pack  
Thermoset, UV polymerisable**

**Powerful remover  
Ultra-fast acting**

**Remover, Descaler  
For steel and aluminium molds  
In the plastics industry**

#### DESCRIPTION

DECAP 1000 is specifically formulated for cleaning and stripping mold impressions. It is recommended for removal of processing agents during injection molding operations: it eliminates silicones, paintable silicones, esters, waxes, but also amalgams of minerals such as stearates used in admixture with polystyrene and polyamide granules.

DECAP 1000 also suitable for the removal of deposits generated during processing. For example, for use in rapid mold cooling operations, where the constituents of low molecular weight plastics - Oligomers - freeze more slowly than their counterparts of high molecular weight and are deposited on the surface of the molds.

Anti-Corrosive. Removes all residues, including rust.

DECAP 1000 is suited for the cleaning of vents and ejector guides.

#### INSTRUCTIONS FOR USE

Apply the product on the molds to be cleaned. Leave for a few minutes. Wipe to remove dissolved residues.



Removal and descaling of thermoplastic residues and thermosets in plastic injection.



# CLEANING AND HYGIENE

Foaming aerosol Cleaner

Stainless Steel Cleaner

Label Removal Aerosol Spray

Brake cleaner spray 3 functions

## BIOCLEAN® HP

### HEAVY DUTY FOAM CLEANER AEROSOL SPRAY



650 ml Aerosol  
Item Code  
516246

Datasheet link : [www.moussennettoyante.com](http://www.moussennettoyante.com)

Powerful Degreaser – Cleaner – Descaler  
Fast Action Removal of Heavy Hydrocarbons,  
Tar, Mineral Oil, Vegetable Oil,  
Combustion residues and Soot.  
Ideal for ALL types of surfaces,  
including polycarbonate surfaces.  
Odorless, Non-allergenic and Toxic-Free

#### DESCRIPTION

Biotec **BIOCLEAN® HP** aerosol is multi-purpose: degreaser, cleaner, descaler.

The powerful scrubbing power of this Foam Cleaner removes even the toughest dirt stains, such as tars, bitumens and animal or vegetable fats.

Leaves treated surfaces with a satin shine finish, including on polished aluminum and stainless steel surfaces. **BIOCLEAN® HP** may also be used on transparent glass or plastic surfaces, after adequate wiping.

**BIOCLEAN® HP** Aerosol Cleaning Foam can be applied to ALL materials; plastics, metals and coated or painted surfaces. Pre-testing painted surfaces with water-based paints is recommended.

This product produces a compact foam that clings to vertical surfaces for effective cleaning.

**BIOCLEAN® HP** is static resistant, non-flammable and odorless.

#### APPLICATIONS

Cleaning of molds. Cleaning of industrial boilers and burner parts. Forklift cleaning. Cleaning of engine blocks. Conveyor Belt Cleaning and Transfer. General cleaning of all marine dead waters or stagnant waters.

Cleaning screens, keyboards, computer cases.

Mechanical degreasing.

General Industrial maintenance.

Cleaning and renovation of machine tool racks. Cleaning and renovation of furniture, including melamine faced chipboard and office equipment.

#### DIRECTIONS FOR USE

Shake aerosol container well for a few moments. Spray approximately 5 to 10 cm from the surface to be cleaned. This product is highly activated and is effective immediately. Wipe with a clean cloth until streaks and stains disappear. It is advised to perform a trial test on poorly reticulated or powdered paints.

This aerosol product can be used at any angle.

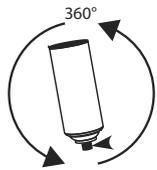


Expert cleaning and disinfection of polycarbonate visors and respirators after operational procedures.



Ideal for cleaning seats on public transport, public areas, cinemas and conference rooms.

# BIOCLEAR<sup>®</sup> INOX AL



Expiration date extended  
**5**  
Years



650 ml Aerosol  
Item Code  
515757



H1 - N° 153946  
Food Grade Certified



20 L Jerrycan  
Item Code  
516630

Datasheet Link : [www.nettoyantinox.com](http://www.nettoyantinox.com)

## CLEANING LUBRICANT FOR STAINLESS STEEL

Restores shine and brilliance  
to Stainless Steel Surfaces  
May be used on all grades of stainless steel:  
austenitic, magnetic, ferritic (304 L 441 430)  
Hot and Cold rolled,  
annealed and highly polished  
(directly by the rollers )  
Brushed (Scotch Brite specified or other),  
Satin finish, Bead blast  
NSF certified for Food Industry  
Codex for pharmaceutical  
and cosmetics industries  
Removes dirt, grease, finger marks,  
leaves a protective film  
Tasteless and Odorless



Cleaning of lift interiors and doors,  
Luxury hotels or following inspection operations,  
and scheduled servicing inspections.



Shines tanks and equipment in wineries.



Cutting and Prep stations in professional kitchens.

### BIOCLEAR<sup>®</sup> INOX AL

4 Main Functions:

- TO CLEAN**
- TO NEUTRALISE**
- TO PROTECT**
- TO POLISH**

BIOCLEAR<sup>®</sup> INOX AL is guaranteed to produce results without the use of silicone or any aggressive or corrosive substances.

#### Active Ingredient

CODEX compliant Pharmacopée France 10th version  
US Pharmacopoeia  
British Pharmacopoeia BP 2001  
EEC regulation 2011/10/EC  
For use in the Pharmaceutical and Cosmetics Industries

NSF H1 approved for direct food contact  
US FDA CFR 21 172.878  
US FDA CFR 21 178.3620  
For use in Food Industry



BIOCLEAR<sup>®</sup> INOX AL cleans and shines  
chromium steel and also  
chromium platings.

## BIOSANE NF 100

### BRAKE CLEANER SPRAY 3 FUNCTIONS



Datasheet Link : [www.nettoyantfreins.com](http://www.nettoyantfreins.com)

**BRAKE CLEANER** and all components of braking systems, clutches, diesel injectors, oil filters, flow meters...

**MECHANICAL COMPONENT DEGREASER**, guides, joints, chains, bearings, rollers, slides, bearings...

**ELECTRICAL CONTACTS CLEANER**, desoxidant, cleaning of electronic tracks, CMS components

**PREPARATION OF SURFACES**, before bonding, chemical fixing, coating, paint, varnish, surface treatment

**CLEANER FOR PLASTIC MATERIALS**, composite technical parts, thermosets, thermoplastics, PVC joinery

**CLEANER FOR HYDRAULIC HOSES**, mandatory checks for detecting oil and fracture primer leaks

Compatible with all metals, all plastics except polystyrene, all rubbers, elastomers (hoses), has no effect on polymerised paints.

**DEGREASER DUST REMOVER PARTICLE REMOVER**

**RAPID EVAPORATION RATE**

+

**MAXIMUM EFFICIENCY**

**GUARANTEED FREE OF ACETONE,  
CHLORINATED SOLVENTS AND AROMATICS**

#### DESCRIPTION

BIOSANE NF 100 is a mixture of high-index KB solvents, used to clean and maintain all brake system components. Platelets, cylinder disks, caliper segments, drums.

It is compatible and effective on all types of brakes, including cast iron, composite, ceramic and carbon/carbon

Fatty residues

They come mainly from brake fluids, cardanic greases, cylinders and pistons, accidental oil leaks from the vehicle itself or the roadway.

Dusts

Mainly from the roadway or chassis, climatic pollution, sludge or traffic.

Particles

These are the famous PF 10s; they come from brake pad wear, but also from tyre wear and road surfaces.

#### APPLICATIONS

BIOSANE NF 100 rapid evaporation and its very high solvent power mean it has many other uses:

Carburettor and clutch cleaning

Oil filter degreasing, cleaning diesel injectors, flow meters and rims

Electrical contacts, electronics when switched off

Preparation of surfaces before bonding, before painting, before decorating

Degreasing mechanical components, guides, chains, joints, bearings, rollers, etc.

Degreasing assemblies with complex shapes

Degumming slides of machine tools and press tool ball columns

Cleaning plastics, technical parts, PVC joinery, etc.





Datasheet link: [www.decolleetiquette.com](http://www.decolleetiquette.com)

**Rapidly removes automatic adhesive labels  
self-laminating labels  
by soaking, penetrating and dissolving action.**

**Particularly effective on permanent and semi-permanent  
synthetic adhesives and cold temperature labels  
composed of highly durable materials.**

**Also eliminates stickers, thumbnails,  
adhesive tapes, marking tapes,  
residual traces of adhesives, transfers (VOID)  
or traces of contact glues, markers  
or felt tips on non-porous media**

**Number of uses X 3**

**Atmospheric non-flammable Plant-based propellant gas  
FREE of extremely flammable Butane, Propane and COV  
Guaranteed FREE of fluorinated HFC greenhouse gases**

**Directive F. Gases 5017.2014**



# NEUTRALENE® LABEL STRIPPER

**LABEL AND STICKER  
REMOVER  
EFFECTIVE ON  
PERMANENT MARKER  
AND FELT TIP PEN STAINS**

Guaranteed without ketones  
and without aromatics.

Based on orange peel extract.

## DESCRIPTION

Combined power of solvents, specifically formulated to remove labels by penetrating, dissolving and cleaning away glue from all stickers and labels.

Effective on all types of materials, including plastics and rubber.

It is recommended to perform a trial test on polystyrene et polycarbonate supports which may be sensitive to organic solvents. Spray directly on the label, let penetrate for a few minutes before removal. Repeat the operation if necessary.

On sensitive materials, use a soft cloth to wipe away glue residue.

For labels made with highly waterproof finishing - such as Kapton - slightly scratch the label beforehand so as to promote good absorption of the product.



Exceptional Circumstances for Glass Bottles

For a long time, milk and casein derivatives were used in the wine industry to attach labels to bottles. Casein, used to clarify wine, was readily available in many wineries.

The value of a wine is often based on its packaging and, over time, modern adhesive methods for labeling wine have often replaced more traditional "dry" methods.

NEUTRALENE® Label Stripper is recommended for "adhesive" labels rather than the traditional "dry" labels. Adhesive labels are easy to recognize since they often have a matt, satin or glossy finish.

In the case of hollow glass recovery and recycling facilities, aerosol use is unsuitable, since large quantities of labels must be removed rapidly. In this case, the bottles should be soaked in a bath prior to washing operations.

In some countries belonging to the European Community, such as Germany, bottle recycling is mandatory. In others, such as Spain, bottle recycling is reserved for empty bottles of value, such as 1200 gram sized bottles and engraved bottles.

iBiotech developed NEUTRALENE® 1079 specifically for the treatment and immersion cleaning of hollow glass. It can be used in cold, hot, pure or water-diluted operations. It is water-rinseable, biodegradable, VOC-free, odorless and is free of warning labels or hazardous pictograms. NEUTRALENE® 1079 also has no effect on ABS, allowing for large load recycling of office equipment.  
[www.solvantssanscovfreesolvent.com](http://www.solvantssanscovfreesolvent.com)

# THREAD LOCKS ANAEROBICS



50 ml Burette  
Item code  
516193



50 ml Burette  
Item code  
516192



50 ml Burette  
Item code  
516191

Datasheet Link: [www.freinfilet.com](http://www.freinfilet.com)

## Mechanical fasteners by threaded joints

Inadequate tightening torque,  
Inadequate geometric ratios,  
Differences in the grades of the materials,  
Frequent variations in the temperature or load,  
Joints subject to vibrations or shocks  
are all factors that lead to stress relaxation in metal, loss of tension, and loosening of the threaded joints

LOCK threaded locks ensure a constant holding force, even during mechanised tightening at an angle, at the screw's elastic limit,  
Fills the voids regardless of the roughness of the contact surfaces,  
Consequently ensures the tightness of the joints,  
Prevents oxidation generated by external agents,  
and corrosion of surface tribo-contacts (Hertzian contacts) generated by vibratory phenomena causing Pitting

## Choose a threaded lock

- Depending on the desired ease or resistance to loosening
- Depending on the temperature
- Depending on the grade of the steel in contact
- Depending on the external agents in contact with the joints, oil, glycols, solvents, etc.

The 3 LOCK products meet every need.



# LOCK IT! Threaded locks

Low, medium and high resistance



## LOCK B 15 Low Resistance Locking

for easy disassembly with all common manual tools, loosening torque **15N/m**

## LOCK R 25 Medium Resistance Locking

for disassembly with all standard professional tools, loosening torque **25N/m**

## LOCK V 29 High Resistance Locking

for disassembly with suitable tools or after sublimation phase at **+250°C temperature, loosening torque 29 N/m**

## APPLICATIONS

Locking on threaded elements: threaded joints, screwed joints, rigid, removable or non-removable, bolts (screws + nuts), blind or threaded through holes, studs, axes including through pins.

The threadlock polymerises in the absence of air and in the presence of metal particles. Once set, the threadlock holds the fastener firm against loosening forces, vibration and shock.

## BASIC CONCEPTS ON TIGHTENING TORQUES

While the clamping precision class is small (Class D) in industrial maintenance, the same does not apply in mechanical engineering. This simple reminder of the calculation of tightening torques comes from standard NF E 25.030.1 Screwed Fastener Joints (ISO 898 1&2 and ISO 3506 1&2)

The necessary dimensional and mechanical data to know are:

- Diameter of the screw
- Diameter of the through hole
- Thread pitch
- Side on flat of nut
- Constraint rate
- Class (tightening quality) desired

The necessary dynamic values to know are:

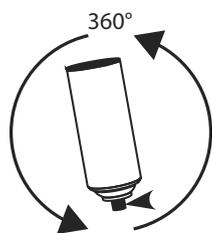
- Tightening torque
- Equivalent resistant section
- Initial tension in the screw

The friction coefficient value is generally determined by the lubrication of the joint

- $\mu$  0.10 adapted lubrication
- $\mu$  0.15 summary lubrication
- $\mu$  0.20 dry mounting

Advantageously, the thread locks replace the lubricants, but above all, prevent the joint becoming unscrewed. A threadlock cannot be used in the case of very high temperatures over 250°C and up to temperature extremes of 1200°C. Then it must be replaced by joint pastes and aluminium, copper, nickel or ceramic joints.

# ECONOMICAL AND TECHNICAL HIGH-PERFORMANCE PRODUCTS



**iBiotec**<sup>®</sup>  
LA MARQUE D'UN FABRICANT

iBiotec Innovation: An aerosol spray with specially designed valves that allow the product to be used at any angle.



Non-flammable  
Inert Plant-based  
Propellant  
3 %

Active  
ingredient  
97 %

Plant-based Propellant.

Inert, Bacteriostatic, Non-Flammable and Fire-Resistant.

For use in food, pharmaceutical and medical industries.

Unlimited availability.

**PATENT 904 0 1968.4.**



Pad-printed cap by : [www.arcom-serigraphie.com](http://www.arcom-serigraphie.com)

The FEA European Aerosol Federation, which provides technical standards for the European aerosol industry, indicates a 2 year minimum mandatory expiration date - with no possibility of extension. Therefore, manufacturers always place a 2 years limit on their DLU products.

Expiration  
date  
extended

**5**

Years

iBiotec carries out extended oven tests at 122 °F, enabling product stability verification and quality control of the valve and internal state of the aerosol can.

iBiotec is responsible for the development of a new method which extends the life-span of aerosol containers and thus, exceeds the guidelines set by FEA regulations.

This iBiotec innovation increases by 2.5 the life-span of aerosol products. The test protocol, developed by iBiotec, has now been accepted by FEA.

**Guaranteed  
FREE of  
Neurotoxic n.Hexane**

iBiotec Toxic Substances Control. iBiotec guarantees strict conformity to the current rules and regulations set forth concerning toxic substances and will conform to any which will be declared in the future.



iBiotec develops products that comply with principles of the Hazard Analysis and Critical Control Point (HACCP) system but also adopted by the Codex Alimentarius Commission.

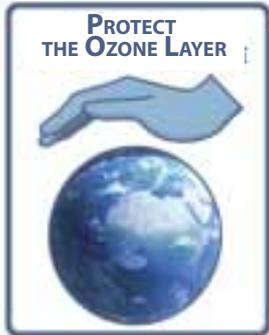
Our products can also be used in all other industrial sectors.

Our primary focus: The reduction occupational risks.



Product guaranteed to contain  
no HC no MOSH-MOASH

In accordance with the EU COMMISSION Recommendation 2017/84 from January 16, 2017 regarding the monitoring of mineral oil hydrocarbons in foods and in materials and articles intended for food contact.



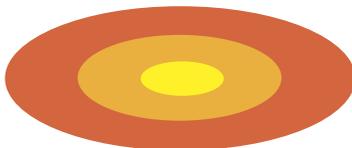
ODP Ozone depletion potential.  
PDO Potentiel de destruction de la couche d'ozone).  
Potential of a gas to destroy the ozone layer in the upper atmosphere.  
Chlorofluorocarbons (CFCs) and brominated Chlorofluorocarbons (BFCs) have a high ODP therefore are NOT used by iBiotec.



**EU regulation No 517/2014 of 16 April 2014** on fluorinated greenhouse gases (Directive F. Gases) prohibits use and release of greenhouse gases into the atmosphere with a GWP (global warming potential) above 150. This ban took effect on January 1st, 2018.

Solvent compounds, such as the mixture of MFC 365 and 227 Ea, will therefore be banned. **GWP 0** this guarantees the total absence of greenhouse gases.

LIFE CYCLE ANALYSIS  
ISO 14 040



CARBON FOOTPRINT®

Logo and trademark registered by Ademe. The carbon footprint refers to the total amount of greenhouse gas emissions produced throughout the life cycle of a product before it is placed on the market, as well as, the accounting of direct or indirect emissions from an activity or a site. It must take into account the emissions resulting from human activity such as harvesting, trituration, esterification, manufacturing, transport and waste management. It imposes a thorough understanding and accountability of a product's life cycle and the full range of its environmental effects according to ISO 14040 LCA (life-cycle analysis). Balance sheets are established according to the current ISO 14064 series of International Standards for environmental management. **4.57kg Eq C / 1 ton.**



Our policy: Risk-Free Solutions and Support.



Primary biodegradation according to CEC L 33 T 82. Easy biodegradability according to OECD 301 A, ISO 7827. Ready Biodegradable as defined by the OCDE 310 C Modified MITI. Classified as hazardous for water according to the WGK list, German standard. Bioaccumulation, octanol-water partitioning index (log KOW) based on OECD 107.



Agrosourced solvents and lubricants come from the wood, cereals or oilseed sectors. IBiotec guarantees the use of saturated raw materials without compounds dangerous for man and the environment. Some solvents called agrosolvents, green solvents or bio-solvents are toxic for man and the environment. We guarantee a residual methanol content of Zero resulting from transesterification.



VOC emission reduction  
Carbon content

VOC Defined:

Any substance or organic mixture that during use, exist in a gaseous state or evaporates easily under usual conditions of temperature and pressure. Therefore, solvents are would be taken into consideration if they have a vapor pressure greater than 0.01 Kpa at a temperature of 293 15 K (68 °F). NOTE: Butane-propane mixtures used as a propellant in aerosols are considered VOC.



For more than 7 years, iBiotec has been enforcing a programme aimed at reducing petroleum products in its formulas, in favour of raw materials of plant or marine origin, renewable. iBiotec is committed to reduced use of non-renewable fossil-based energies.

# WARNING

## Regulatory Monitoring CHOOSING THE RIGHT PROPELLANT

iBiotec offers a full range of aerosol products filled and packaged with atmospheric and natural non-flammable compressed gases.

Some of our formulas, however, still call for the use of a liquefied gas, such as **HFC-134a**. CFC production was banned in 1995. HCFC production was banned more gradually, beginning in 2007. Some HCFC had a slight ozone depletion potential (ODP), but significant global warming potential (GWP). These propellant gases were naturally replaced by HFC, mainly HFC-134a.

EU Regulation 517/2014 from April 16, 2014 on fluorinated greenhouse gases (F. Gas Directive) banned atmospheric discharges of fluorinated gases with a GWP above 150 - this measure applies to HFC-134a.

The ban came into effect on January 1st 2018.

Aerosol packaging companies, as well as those who market products containing HFC-134a, are banned from using this gas. In addition, distributors, technical wholesalers, industrial suppliers and trade specialists are required to destroy these products.

Most aerosol manufacturers have naturally turned to the substitute gas HFC-152a, with a GWP of 124 rather than 150. This gas has the same basic characteristics as HFC-134a, except that it is extremely flammable. This alternative gas is not a long-term solution. Representatives from 197 countries of the 1987 Montreal Protocol are planning to phase out all HFCs, regardless of their GWP. (COP 22 November 2016)

France is opting for an accelerated ban.

In order to offer a durable solution to our clients and distributors, iBiotec has developed a fourth-generation gas, not only free of HFC-152 but free of all HFCs. This non-flammable gas has zero ODP and very little GWP.

**iBiotec** established a policy long ago focused on non-toxic and environmentally safe products and production. Today, as always, iBiotec continues to innovate **solutions for the future**.

iBiotec, in collaboration with specialized organizations and agencies, regularly publishes technical research and studies for improvement in dealing with toxicology and environmental safety for humans and the environment.

### **iBiotec publications and research:**

REGLEMENTARY RISK AND DANGERS OF AQUEOUS CLEANING SYSTEMS - [www.fontainesbiologiques.com](http://www.fontainesbiologiques.com)

TEST GAS FOR FIRE ALARMS AND SMOKE DETECTORS - [www.gaztestdaaf.com](http://www.gaztestdaaf.com)

NEAR ZERO QUANTUM FRICTION - [www.pateblancheceramique.com](http://www.pateblancheceramique.com)

Development, Formulation, Manufacturing, Packaging

100 % MADE IN FRANCE



# iBiotec®

MMCC® microchem®

[www.ibiotec.fr](http://www.ibiotec.fr)

## *Developer of Innovative Application-Specific Solutions*

Visit our website to learn more about our full range of products,  
to consult our data sheets and to download documents:

[www.ibiotec.fr](http://www.ibiotec.fr)



**2000** TECHNICAL PRODUCTS TO SUIT YOUR NEEDS