

iBiotec®

**MANUFACTURER OF TECHNICAL AEROSOLS AND PRODUCTS FOR INDUSTRY
PROCESSES - MRO - MAINTENANCE
ALTERNATIVE SOLVENTS 100% SAFE**

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VÉGÉLUB® AL

**Multifunctional technical fluid
for food safety**

**Mould release agent, Anti-adhesive and Lubricant
H1 3H, MOSH-free, POSH-free, MOAH-free**



**Nonfood Compounds
Program Listed H1, 3H
Registration 165585**



**RECOMMENDATION EU 84/2017
GUARANTEED WITHOUT HC,
WITHOUT MOSH/POSH,
WITHOUT MOAH**

**Analysis report available on request
21/080024 LC GC-FID DIN/EN 16995**



PROPERTIES	STANDARDS	VALUES	UNITS
Appearance	Visual	Clear	-
Colour*	Visual	Yellow	-
Odour	Olfactory	Light	-
Density at 25°C	NF EN ISO 12185	913	kg/m ³
Refractive index	ISO 5661	1.4720	-
Freezing point	ISO 3016	-18	°C
Solubility in water	-	0	%
Kinematic viscosity at 40°C	NF EN 3104	36	cSt
Acid value	EN 14104	<0.1	mg(KOH)/g
Water content	NF ISO 6296	<10	ppm
FIRE SAFETY PROPERTIES			
PROPERTIES	STANDARDS	VALUES	UNITS
Flash point (vacuum)	NF EN 22719	without	°C
Lower explosive limit	-	without	% (by volume)
Upper explosive limit	-	without	% (by volume)
TOXICOLOGICAL PROPERTIES			
PROPERTIES	STANDARDS	VALUES	UNITS
Anisidine value	NF ISO 6885	<6	-
Peroxide value	NF ISO 3960	<10	meq(O ₂)/kg
TOTOX (anisidine value + 2x peroxide value)	-	<26	-
CMR, irritating and corrosive substance content	CLP Regulation	Total absence	%
Residual methanol content from transesterification	GC-MS	0	%
Emissions of hazardous, CMR, irritant, corrosive compounds at 160°C.	GC-MS	0	%
ENVIRONMENTAL PROPERTIES			
PROPERTIES	STANDARDS	VALUES	UNITS
Water endangering	WGK Germany	0	class
Primary biodegradability CEC 21 days at 25°C	L 33 T 82	over 90	%
Easy biodegradability OECD 301 A over 28 days Disappearance of the DOC	ISO 7827	over 90	%
Easy and ultimate biodegradability OECD 301 C over 28 days Biodegradation at 67 days	Modified MITI	100	
Biodegradability 301 F manometric respirometry test 28 days	OECD 301 F	>70 GLP certification	%
Bioaccumulation n-octanol water partition coefficient	OECD 107	less than 1	log Kow
Vapour pressure at 20°C	-	0	hPa

VOC (Volatile Organic Compounds) content	-	0	%
Solvent content	-	0	%
Environmentally hazardous substances content	-	0	%
Content of compounds with a GWP	-	0	%
Content of compounds with an ODP	-	0	%
Carbon balance, life cycle analysis	ISO 14040	0.80	Carbon Equivalent Kg

DESCRIPTION

New generation formulation of modified esters of vegetable origin. Product guaranteed animal-free.
Reduced friction and wear. Anti-oxygen, anti-corrosion, non-drying, totally stable.

APPLICATIONS

VEGELUB® AL has a wide range of operating temperatures from -20°C to +150°C and can therefore be used in freezing or baking plants.

Non-stick treatment and lubrication of conveyor belts and moulds. Worm gear.

Lubrication of knives, rotary knives, dividers, blades, slicers, guillotines, boning benches, rockers and guides.

Lubrication of information transmissions, cams and pushbuttons.

Sheet metal forming by shearing and stamping, of packaging components, rings and tyre removal devices.

USE OPTIMISATION

The installation of a lubrication system has an extremely fast return on investment. The optimum hydrodynamic quantity is 2 x Ra. Ra being in microns, the mean surface roughness value of the substrates in contact (hollow peaks).

Microlubrication is a technique of supplying a precise quantity of a liquid in a process. It is also called **MQL** or **Minimum Quantity Lubrication**.

Considerable reduction in quantities used.

Is part of a 5 S method.

Part of Lean Management: muda, muri, mura.

Reduced FE response times. Reduced risk of error. Reduced risk of foreign bodies in food due to lack of dissociable equipment.

No solvent, no vapour emissions, no organo-volatile emissions.

USES

Microlubrication is used in operations such as:

- machining (sawing, drilling, boring, tapping, milling, broaching, turning)
- shearing and stamping (strip lubrication, direct input into the tool)
- forming (tube bending, swaging) – forging and moulding
- corrosion protection
- lubrication of conveyors
- lubrication of machine elements
- lubrication of assembly operations, installation of rubber elements
- marking
- gluing
- agri-food

ADVANTAGES

Precise and reliable, microlubrication reduces to a minimum the quantities of consumables used.

TECHNOLOGIES

There is a considerable difference between spray systems and microlubrication systems.

A spray system distributes a liquid whose flow rate is regulated by an **adjustable nozzle**.

Spraying is generally used to cover large areas or for high flow rates.

In a **microlubrication** system, the dosage is calibrated by a **volumetric micropump** whose displacement is usually adjustable. The flow rate is a function of the displacement and the stroke rate of the micropump. The flow rate ranges from 77 mm³ per hour to more than 1.4 litres per hour.

Once dosed, the liquid can be:

- fed through a tube to a point for soaking a felt or for drip feeding
- sprayed through a nozzle
- sprayed from the inside of a spindle or tube.

The nozzles are connected to the micropumps by hoses:

- these are single and carry an oil mist. One micropump can supply several
- coaxial nozzles that carry oil and air separately. One micropump is associated with each nozzle.

In the latter case:

- the spray fineness of the nozzles is adjustable
- the oil distribution between the nozzles is perfect
- **air pollution is normally non-existent**. It is very rarely necessary to generate fog.

MATERIALS

Here are links to:

- [microlubrication](#) systems
- spraying [systems](#)
- [microlubrication](#) nozzles
- spray [nozzles](#)

PRESENTATIONS

Drum 200 L

Can 20 L



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Consulter la fiche de données de sécurité.

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