



LUBRIFIANT PM - 10006/10021

SAFETY DATA SHEET

(REACH regulation (EC) n° 1907/2006 - n° 2020/878)

SECTION 1 : IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product name : LUBRIFIANT PM

Product code : 10006/10021.

UFI : H060-80JM-300F-G9YE

1.2. Relevant identified uses of the substance or mixture and uses advised against

Lubricant for polishing

1.3. Details of the supplier of the safety data sheet

Registered company name : PRESI S.A.S.

Address : 11 Rue du vercors.38320.EYBENS.France.

Telephone : +33 (0)4.76.72.00.21. Fax : +33 (0)4.76.72.05.84.

presi@presi.com

www.presi.com

1.4. Emergency telephone number : +33 (0)1.45.42.59.59.

Association/Organisation : INRS / ORFILA <http://www.centres-antipoison.net>.

SECTION 2 : HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

In compliance with EC regulation No. 1272/2008 and its amendments.

Flammable liquid, Category 2 (Flam. Liq. 2, H225).

This mixture does not present a health hazard with the exception of possible occupational exposure thresholds (see paragraphs 3 and 8).

This mixture does not present an environmental hazard. No known or foreseeable environmental damage under standard conditions of use.

2.2. Label elements

In compliance with EC regulation No. 1272/2008 and its amendments.

Hazard pictograms :



GHS02

Signal Word :

DANGER

Hazard statements :

H225

Highly flammable liquid and vapour.

Precautionary statements - Prevention :

P210

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P280

Wear protective gloves/protective clothing/eye protection/face protection/hearing protection/ ...

Precautionary statements - Response :

P303 + P361 + P353

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

Precautionary statements - Storage :

P403 + P235

Store in a well-ventilated place. Keep cool.

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2.3. Other hazards

The mixture does not contain substances classified as 'Substances of Very High Concern' (SVHC) $\geq 0.1\%$ published by the European Chemicals Agency (ECHA) under article 57 of REACH: <http://echa.europa.eu/fr/candidate-list-table>

The mixture fulfils neither the PBT nor the vPvB criteria for mixtures in accordance with annexe XIII of the REACH regulations EC 1907/2006.

The mixture does not contain substances $\geq 0.1\%$ with endocrine disrupting properties in accordance with the criteria of the Delegated Regulation (EU) 2017/2100 of the Commission or Regulation (EU) 2018/605 of the Commission.

SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

Composition :

Identification	Classification (EC) 1272/2008	Note	%
CAS: 25265-71-8 EC: 246-770-3 REACH: 01-2119456811-38 DIPROPYLENE GLYCOL		[1]	10 \leq x % < 25
CAS: 64-17-5 EC: 200-578-6 REACH: 01-2119457610-43-0000 ETHANOL	GHS07, GHS02 Dgr Flam. Liq. 2, H225 Eye Irrit. 2, H319	[1]	10 \leq x % < 25
CAS: 78-93-3 EC: 201-159-0 REACH: 01-2119457290-43-XXXX BUTANONE	GHS07, GHS02 Dgr Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 EUH:066	[1]	0 \leq x % < 1
CAS: 67-63-0 EC: 200-661-7 REACH: 01-2119457558-25-XXXX PROPAN-2-OL	GHS07, GHS02 Dgr Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336	[1]	0 \leq x % < 1

Specific concentration limits:

Identification	Specific concentration limits	ATE
CAS: 64-17-5 EC: 200-578-6 REACH: 01-2119457610-43-0000 ETHANOL	Eye Irrit. 2B: H319 C \geq 50%	oral: ATE = 10470 mg/kg BW
CAS: 78-93-3 EC: 201-159-0 REACH: 01-2119457290-43-XXXX BUTANONE		inhalation: ATE = 34 mg/l 4h (vapours)
CAS: 67-63-0 EC: 200-661-7 REACH: 01-2119457558-25-XXXX PROPAN-2-OL		dermal: ATE = 13900 mg/kg BW oral: ATE = 5840 mg/kg BW

Information on ingredients :

(Full text of H-phrases: see section 16)

[1] Substance for which maximum workplace exposure limits are available.



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SECTION 4 : FIRST AID MEASURES

As a general rule, in case of doubt or if symptoms persist, always call a doctor.

NEVER induce swallowing by an unconscious person.

4.1. description of first aid measures

In the event of exposure by inhalation :

Move to fresh air

If symptoms persist, call a physician

In the event of splashes or contact with eyes :

Wash thoroughly with fresh, clean water for 15 minutes holding the eyelids open.

In the event of swallowing :

In the event of swallowing, if the quantity is small (no more than one mouthful), rinse the mouth with water and consult a doctor.

Keep the person exposed at rest. Do not force vomiting.

Seek medical attention, showing the label.

If swallowed accidentally, call a doctor to ascertain whether observation and hospital care will be necessary. Show the label.

4.2. Most important symptoms and effects, both acute and delayed

No data available.

4.3. Indication of any immediate medical attention and special treatment needed

No data available.

SECTION 5 : FIREFIGHTING MEASURES

Flammable.

Chemical powders, carbon dioxide and other extinguishing gas are suitable for small fires.

5.1. Extinguishing media

Keep packages near the fire cool, to prevent pressurised containers from bursting.

Suitable methods of extinction

In the event of a fire, use :

- sprayed water or water mist
- water with AFFF (Aqueous Film Forming Foam) additive
- halon
- foam
- multipurpose ABC powder
- BC powder
- carbon dioxide (CO₂)

Prevent the effluent of fire-fighting measures from entering drains or waterways.

Unsuitable methods of extinction

In the event of a fire, do not use :

- water jet

5.2. Special hazards arising from the substance or mixture

A fire will often produce a thick black smoke. Exposure to decomposition products may be hazardous to health.

Do not breathe in smoke.

In the event of a fire, the following may be formed :

- carbon monoxide (CO)
- carbon dioxide (CO₂)

5.3. Advice for firefighters

Fire-fighting personnel are to be equipped with autonomous insulating breathing apparatus.



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SECTION 6 : ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Consult the safety measures listed under headings 7 and 8.

For non first aid worker

Because of the organic solvents contained in the mixture, eliminate sources of ignition and ventilate the area.

For first aid worker

First aid workers will be equipped with suitable personal protective equipment (See section 8).

6.2. Environmental precautions

Contain and control the leaks or spills with non-combustible absorbent materials such as sand, earth, vermiculite, diatomaceous earth in drums for waste disposal.

Prevent any material from entering drains or waterways.

6.3. Methods and material for containment and cleaning up

Clean preferably with a detergent, do not use solvents.

6.4. Reference to other sections

No data available.

SECTION 7 : HANDLING AND STORAGE

Requirements relating to storage premises apply to all facilities where the mixture is handled.

7.1. Precautions for safe handling

Always wash hands after handling.

Ensure that there is adequate ventilation, especially in confined areas.

Technical measures / Precautions

Local exhaust ventilation may be required to meet exposure standards in addition to general room ventilation

Fire prevention :

Handle in well-ventilated areas.

Vapours are heavier than air. They can spread along the ground and form mixtures that are explosive with air.

Prevent the formation of flammable or explosive concentrations in air and avoid vapor concentrations higher than the occupational exposure limits.

Prevent the accumulation of electrostatic charges with connections to earth.

The mixture can become electrostatically charged: always ground when decanting. Wear antistatic shoes and clothing and make floors of non-conductive

Use the mixture in premises free of naked flames or other sources of ignition and ensure that electrical equipment is suitably protected.

Keep packages tightly closed and away from sources of heat, sparks and naked flames.

Do not use tools which may produce sparks. Do not smoke.

Prevent access by unauthorised personnel.

Recommended equipment and procedures :

For personal protection, see section 8.

Observe precautions stated on label and also industrial safety regulations.

Packages which have been opened must be reclosed carefully and stored in an upright position.

Prohibited equipment and procedures :

No smoking, eating or drinking in areas where the mixture is used.

7.2. Conditions for safe storage, including any incompatibilities

Keep away from food, drink and animals feeding stuffs

Keep only in the original container

Storage

Keep the container tightly closed in a dry, well-ventilated place.

Keep away from all sources of ignition - do not smoke.

Keep well away from all sources of ignition, heat and direct sunlight.

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Avoid accumulation of electrostatic charges.

The floor must be impermeable and form a collecting basin so that, in the event of an accidental spillage, the liquid cannot spread beyond this area.

Packaging

Always keep in packaging made of an identical material to the original.

7.3. Specific end use(s)

No data available.

SECTION 8 : EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Occupational exposure limits :

- European Union (2022/431, 2019/1831, 2017/2398, 2017/164, 2009/161, 2006/15/CE, 2000/39/CE, 98/24/CE) :

CAS	VME-mg/m3 :	VME-ppm :	VLE-mg/m3 :	VLE-ppm :	Notes :
78-93-3	600	200	900	300	-

- ACGIH TLV (American Conference of Governmental Industrial Hygienists, Threshold Limit Values, 2010) :

CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :
64-17-5		1000 ppm		A3	
78-93-3	200 ppm	300 ppm		BEI	
67-63-0	200 ppm	400 ppm		A4; BEI	

- Germany - AGW (BAuA - TRGS 900, 02/2022) :

CAS	VME :	VME :	Excess	Notes
25265-71-8		100 E mg/m3		2(II)
64-17-5		200 ppm 380 mg/m3		4(II)
78-93-3		200 ppm 600 mg/m3		1(I)
67-63-0		200 ppm 500 mg/m3		2(II)

- Canada / Ontario (Control of exposure to biological or chemical agents, regulation 491/2009) :

CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :
67-63-0	200 ppm	400 ppm	-	-	-

- Canada / Quebec (Regulations on occupational health and safety) :

CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :
64-17-5		1000 ppm		C3	
78-93-3	50 ppm 150 mg/m3	100 ppm 300 mg/m3			
67-63-0	200 ppm	400 ppm			

- France (INRS - Outils 65 / 2021-1849, 2021-1763, decree of 09/12/2021) :

CAS	VME-ppm :	VME-mg/m3 :	VLE-ppm :	VLE-mg/m3 :	Notes :	TMP No :
64-17-5	1000	1900	5000	9500	-	84
78-93-3	200	600	300	900	*	84
67-63-0	-	-	400	980	-	84

- Japan (JSOH, Recommendation of occupational exposure limits 2021-2022) :

CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :
78-93-3	200 ppm 590 mg/m3				
67-63-0	400 ppm 980 mg/m3				

- Switzerland (Suva 2021) :

CAS	VME	VLE	Valeur plafond	Notations
25265-71-8	140 ppm	280 ppm		

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64-17-5	500 ppm 960 mg/m3	1000 ppm 1920 mg/m3		
78-93-3	200 ppm 590 mg/m3	200 ppm 590 mg/m3		
67-63-0	200 ppm 500 mg/m3	400 ppm 1000 mg/m3		

- USA / NIOSH IDLH (National Institute for Occupational Safety and Health, Immediately Dangerous to Life or Health Concentrations) :

CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :
64-17-5	-	-	3300	-	-
78-93-3	200 ppm 590 mg/m3	300 ppm 885 mg/m3			
67-63-0	400 ppm 980 mg/m3	500 ppm 1225 mg/m3			

- UK / WEL (Workplace exposure limits, EH40/2005, Fourth Edition 2020) :

CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :
64-17-5	1000 ppm 1920 mg/m3				
78-93-3	200 ppm 600 mg/m3	300 ppm 899 mg/m3		Sk. BMGV	
67-63-0	400 ppm 999 mg/m3	500 ppm 1250 mg/m3			

Derived no effect level (DNEL) or derived minimum effect level (DMEL):

PROPAN-2-OL (CAS: 67-63-0)

Final use:

Exposure method:
Potential health effects:
DNEL :

Exposure method:
Potential health effects:
DNEL :

Final use:

Exposure method:
Potential health effects:
DNEL :

Exposure method:
Potential health effects:
DNEL :

Exposure method:
Potential health effects:
DNEL :

Workers.

Dermal contact.
Long term systemic effects.
888 mg/kg body weight/day

Inhalation.
Long term systemic effects.
500 mg of substance/m3

Consumers.

Ingestion.
Long term systemic effects.
26 mg/kg body weight/day

Dermal contact.
Long term systemic effects.
319 mg/kg body weight/day

Inhalation.
Long term systemic effects.
89 mg of substance/m3

BUTANONE (CAS: 78-93-3)

Final use:

Exposure method:
Potential health effects:
DNEL :

Exposure method:
Potential health effects:

Workers.

Dermal contact.
Long term systemic effects.
1161 mg/kg body weight/day

Inhalation.
Long term systemic effects.



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DNEL : 600 mg of substance/m3

Final use:

Exposure method:
Potential health effects:
DNEL :

Consumers.
Ingestion.
Long term systemic effects.
31 mg/kg body weight/day

Exposure method:
Potential health effects:
DNEL :

Dermal contact.
Long term systemic effects.
412 mg/kg body weight/day

Exposure method:
Potential health effects:
DNEL :

Inhalation.
Long term systemic effects.
106 mg of substance/m3

ETHANOL (CAS: 64-17-5)

Final use:

Exposure method:
Potential health effects:
DNEL :

Workers.
Dermal contact.
Long term local effects.
343 mg/kg body weight/day

Exposure method:
Potential health effects:
DNEL :

Inhalation.
Long term systemic effects.
950 mg of substance/m3

Exposure method:
Potential health effects:
DNEL :

Inhalation.
Short term local effects.
1900 mg of substance/m3

Final use:

Exposure method:
Potential health effects:
DNEL :

Consumers.
Ingestion.
Long term systemic effects.
87 mg/kg body weight/day

Exposure method:
Potential health effects:
DNEL :

Dermal contact.
Long term systemic effects.
206 mg/kg body weight/day

Exposure method:
Potential health effects:
DNEL :

Inhalation.
Long term systemic effects.
114 mg of substance/m3

Exposure method:
Potential health effects:
DNEL :

Inhalation.
Short term local effects.
950 mg of substance/m3

DIPROPYLENE GLYCOL (CAS: 25265-71-8)

Final use:

Exposure method:
Potential health effects:
DNEL :

Workers.
Dermal contact.
Long term systemic effects.
84 mg/kg body weight/day



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Exposure method: Inhalation.
Potential health effects: Long term systemic effects.
DNEL : 238 mg of substance/m³

Final use:

Exposure method: Ingestion.
Potential health effects: Long term systemic effects.
DNEL : 24 mg/kg body weight/day

Exposure method: Dermal contact.
Potential health effects: Long term systemic effects.
DNEL : 51 mg/kg body weight/day

Exposure method: Inhalation.
Potential health effects: Long term systemic effects.
DNEL : 70 mg of substance/m³

Predicted no effect concentration (PNEC):

PROPAN-2-OL (CAS: 67-63-0)

Environmental compartment: Soil.
PNEC : 28 mg/kg

Environmental compartment: Fresh water.
PNEC : 140.9 mg/l

Environmental compartment: Sea water.
PNEC : 140.9 mg/l

Environmental compartment: Intermittent waste water.
PNEC : 140.9 mg/l

Environmental compartment: Fresh water sediment.
PNEC : 552 mg/kg

Environmental compartment: Waste water treatment plant.
PNEC : 2251 mg/l

Environmental compartment: Fresh water predators (oral).
PNEC : 160 mg/kg

BUTANONE (CAS: 78-93-3)

Environmental compartment: Soil.
PNEC : 22.5 mg/kg

Environmental compartment: Fresh water.
PNEC : 55.8 mg/l

Environmental compartment: Sea water.
PNEC : 55.8 mg/l

Environmental compartment: Intermittent waste water.
PNEC : 55.8 mg/l



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Environmental compartment: PNEC :	Fresh water sediment. 284.7 mg/kg
Environmental compartment: PNEC :	Waste water treatment plant. 709 mg/l
Environmental compartment: PNEC :	Fresh water predators (oral). 1000 mg/kg
ETHANOL (CAS: 64-17-5)	
Environmental compartment: PNEC :	Soil. 0.63 mg/kg
Environmental compartment: PNEC :	Fresh water. 0.96 mg/l
Environmental compartment: PNEC :	Sea water. 0.79 mg/l
Environmental compartment: PNEC :	Intermittent waste water. 2.75 mg/l
Environmental compartment: PNEC :	Fresh water sediment. 3.6 mg/kg
Environmental compartment: PNEC :	Marine sediment. 2.9 mg/kg
Environmental compartment: PNEC :	Waste water treatment plant. 580 mg/l
Environmental compartment: PNEC :	Fresh water predators (oral). 380 mg/kg
DIPROPYLENE GLYCOL (CAS: 25265-71-8)	
Environmental compartment: PNEC :	Soil. 0.0253 mg/kg
Environmental compartment: PNEC :	Fresh water. 0.1 mg/l
Environmental compartment: PNEC :	Sea water. 0.01 mg/l
Environmental compartment: PNEC :	Intermittent waste water. 1 mg/l
Environmental compartment: PNEC :	Fresh water sediment. 0.238 mg/kg
Environmental compartment: PNEC :	Marine sediment. 0.0238 mg/kg
Environmental compartment:	Waste water treatment plant.

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PNEC :	1000 mg/l
Environmental compartment:	Salt water predators (oral).
PNEC :	313 mg/kg

8.2. Exposure controls

Personal protection measures, such as personal protective equipment

Pictogram(s) indicating the obligation of wearing personal protective equipment (PPE) :



Use personal protective equipment that is clean and has been properly maintained.

Store personal protective equipment in a clean place, away from the work area.

Never eat, drink or smoke during use. Remove and wash contaminated clothing before re-using. Ensure that there is adequate ventilation, especially in confined areas.

- Eye / face protection

Avoid contact with eyes.

Use eye protectors designed to protect against liquid splashes

Before handling, wear safety goggles in accordance with standard EN166.

Safety goggles

- Hand protection

Wear suitable protective gloves in the event of prolonged or repeated skin contact.

Type of gloves recommended :

- Natural latex
- Nitrile rubber (butadiene-acrylonitrile copolymer rubber (NBR))
- PVC (polyvinyl chloride)
- Butyl Rubber (Isobutylene-isoprene copolymer)

- Body protection

Work clothing worn by personnel shall be laundered regularly.

After contact with the product, all parts of the body that have been soiled must be washed.

As required, wear a face mask, impervious protective clothing, and safety boots (when handling drums)

SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical state

Physical state : Fluid liquid.

Colour

Color: Light, cloudy

Odour

Odour threshold : Not stated.

Odour: Alcohol

Melting point

Melting point/melting range : Not specified.

Freezing point

Freezing point / Freezing range : Not stated.

Boiling point or initial boiling point and boiling range

Boiling point/boiling range : > 35°C

Flammability

Flammability (solid, gas) : Not stated.



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Lower and upper explosion limit

Explosive properties, lower explosivity limit (%) Not stated.

:

Explosive properties, upper explosivity limit (%) Not stated.

:

Flash point

Flash Point Interval : FP < 23°C

Auto-ignition temperature

Self-ignition temperature : Not specified.

Decomposition temperature

Decomposition point/decomposition range : Not specified.

pH

pH : Not stated.

Neutral.

pH (aqueous solution) : Not stated.

Kinematic viscosity

Viscosity : Not stated.

Solubility

Water solubility : Soluble.

Fat solubility : Not stated.

Partition coefficient n-octanol/water (log value)

Partition coefficient: n-octanol/water : Not stated.

Vapour pressure

Vapour pressure (50°C) : Not relevant.

Density and/or relative density

Density : < 1

Relative vapour density

Vapour density : Not stated.

Particle characteristics

The mixture does not contain nanoforms.

9.2. Other information

VOC (g/l) : 192.70

9.2.1. Information with regard to physical hazard classes

No data available.

9.2.2. Other safety characteristics

No data available.

SECTION 10 : STABILITY AND REACTIVITY

10.1. Reactivity

No data available.

10.2. Chemical stability

This mixture is stable under the recommended handling and storage conditions in section 7.

10.3. Possibility of hazardous reactions

When exposed to high temperatures, the mixture can release hazardous decomposition products, such as carbon monoxide and dioxide, fumes and nitrogen oxide.

10.4. Conditions to avoid

Any apparatus likely to produce a flame or to have a metallic surface at high temperature (burners, electric arcs, furnaces etc.) must not be allowed on the premises.



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Avoid :

- accumulation of electrostatic charges.
- heating
- heat
- flames and hot surfaces
- frost

10.5. Incompatible materials

Keep away from :

- strong acids
 - oxidising agents
- Strong acids (exothermy)

10.6. Hazardous decomposition products

The thermal decomposition may release/form :

- carbon monoxide (CO)
- carbon dioxide (CO₂)

Incomplete combustion produces toxic gases, such as CO, CO₂, various forms of hydrocarbons, aldehydes, etc..., and soots

SECTION 11 : TOXICOLOGICAL INFORMATION

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Splashes in the eyes may cause irritation and reversible damage

11.1.1. Substances

Acute toxicity :

PROPAN-2-OL (CAS: 67-63-0)

Oral route :

LD50 = 5840 mg/kg bodyweight/day
Species : Rat
OECD Guideline 401 (Acute Oral Toxicity)

Dermal route :

LD50 = 13900 mg/kg bodyweight/day
Species : Rabbit
OECD Guideline 402 (Acute Dermal Toxicity)

Inhalation route (Vapours) :

LC50 > 25 mg/l
Species : Rat
OECD Guideline 403 (Acute Inhalation Toxicity)
Duration of exposure : 4 h

BUTANONE (CAS: 78-93-3)

Oral route :

LD50 > 2193 mg/kg bodyweight/day
Species : Rat
OECD Guideline 423 (Acute Oral toxicity Acute Toxic Class Method)

Dermal route :

LD50 > 5000 mg/kg bodyweight/day
Species : Rabbit
OECD Guideline 402 (Acute Dermal Toxicity)

Inhalation route (Vapours) :

LC50 = 34 mg/l
Species : Rat
Duration of exposure : 4 h

ETHANOL (CAS: 64-17-5)

Oral route :

LD50 = 10470 mg/kg bodyweight/day
Species : Cat

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	OECD Guideline 401 (Acute Oral Toxicity)
Dermal route :	LD50 > 2000 mg/kg bodyweight/day Species : Rabbit OECD Guideline 402 (Acute Dermal Toxicity)
Inhalation route (Vapours) :	LC50 51 OECD Guideline 403 (Acute Inhalation Toxicity)
DIPROPYLENE GLYCOL (CAS: 25265-71-8)	
Oral route :	LD50 > 5000 mg/kg bodyweight/day Species : Rat OECD Guideline 401 (Acute Oral Toxicity)
Dermal route :	LD50 > 5010 mg/kg bodyweight/day Species : Rabbit
Inhalation route (Dusts/mist) :	LC50 > 2.34 mg/l Species : Rat OECD Guideline 403 (Acute Inhalation Toxicity)
Skin corrosion/skin irritation :	
BUTANONE (CAS: 78-93-3)	Species : Rabbit OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
ETHANOL (CAS: 64-17-5)	Species : Rabbit OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
PROPAN-2-OL (CAS: 67-63-0)	OECD Guideline 404 (Acute Dermal Irritation / Corrosion) Effect observed : Erythema score OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
DIPROPYLENE GLYCOL (CAS: 25265-71-8)	OECD Guideline 404 (Acute Dermal Irritation / Corrosion) Species : Rabbit EPA OPP 81-5 (Acute Dermal Irritation)
Serious damage to eyes/eye irritation :	
PROPAN-2-OL (CAS: 67-63-0)	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
BUTANONE (CAS: 78-93-3)	Species : Rabbit OECD Guideline 405 (Acute Eye Irritation / Corrosion)
ETHANOL (CAS: 64-17-5)	Species : Rabbit



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OECD Guideline 405 (Acute Eye Irritation / Corrosion)

Species : Rabbit
OECD Guideline 405 (Acute Eye Irritation / Corrosion)

Species : Rabbit
OECD Guideline 405 (Acute Eye Irritation / Corrosion)

Species : Rabbit
OECD Guideline 405 (Acute Eye Irritation / Corrosion)

Respiratory or skin sensitisation :

PROPAN-2-OL (CAS: 67-63-0)
Buehler Test :

Non-sensitiser.
Species : Guinea pig
OECD Guideline 406 (Skin Sensitisation)

BUTANONE (CAS: 78-93-3)
Buehler Test :

Non-sensitiser.
Species : Guinea pig
OECD Guideline 406 (Skin Sensitisation)

DIPROPYLENE GLYCOL (CAS: 25265-71-8)
Buehler Test :

Non-sensitiser.
Species : Guinea pig
OECD Guideline 406 (Skin Sensitisation)

ETHANOL (CAS: 64-17-5)
Local lymph node stimulation test :

Non-Sensitiser.
Species : Mouse
OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)

Guinea Pig Maximisation Test (GMPT) :

Non-sensitiser.
Species : Guinea pig

Germ cell mutagenicity :

PROPAN-2-OL (CAS: 67-63-0)

No mutagenic effect.

Mutagenesis (in vivo) :

Negative.
Species : Mouse
OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)

Mutagenesis (in vitro) :

Negative.
Species : Bacteria
OECD Guideline 471 (Bacterial Reverse Mutation Assay)

DIPROPYLENE GLYCOL (CAS: 25265-71-8)

No mutagenic effect.

Carcinogenicity :

PROPAN-2-OL (CAS: 67-63-0)
Carcinogenicity Test :

Negative.



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No carcinogenic effect.
Species : Mouse
OECD Guideline 451 (Carcinogenicity Studies)

DIPROPYLENE GLYCOL (CAS: 25265-71-8)
Carcinogenicity Test :

Negative.
No carcinogenic effect.
Species : Rat

Reproductive toxicant :

PROPAN-2-OL (CAS: 67-63-0)
No toxic effect for reproduction
Study on fertility :

Species : Rat
OECD Guideline 414 (Prenatal Developmental Toxicity Study)

DIPROPYLENE GLYCOL (CAS: 25265-71-8)
No toxic effect for reproduction

11.1.2. Mixture

Respiratory or skin sensitisation :

Inhalation of vapours may cause irritation of the respiratory system in very susceptible persons

Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and absorption through the skin

11.2. Information on other hazards

SECTION 12 : ECOLOGICAL INFORMATION

12.1. Toxicity

No known effects

12.1.1. Substances

PROPAN-2-OL (CAS: 67-63-0)
Fish toxicity :

LC50 = 9640 mg/l
Species : Pimephales promelas
Duration of exposure : 96 h
OECD Guideline 203 (Fish, Acute Toxicity Test)

Crustacean toxicity :

EC50 = 9714 mg/l
Species : Daphnia magna
Duration of exposure : 24 h
OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)

Algae toxicity :

ECr50 > 100 mg/l
Species : Scenedesmus subspicatus
Duration of exposure : 72 h

Duration of exposure : 7 days

BUTANONE (CAS: 78-93-3)
Fish toxicity :

LC50 = 2993 mg/l
Species : Pimephales promelas
Duration of exposure : 96 h

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	OECD Guideline 203 (Fish, Acute Toxicity Test)
Crustacean toxicity :	EC50 = 308 mg/l Species : <i>Daphnia magna</i> Duration of exposure : 48 h OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Algae toxicity :	ECr50 = 1972 mg/l Species : <i>Pseudokirchnerella subcapitata</i> Duration of exposure : 72 h OECD Guideline 201 (Alga, Growth Inhibition Test)
ETHANOL (CAS: 64-17-5)	
Fish toxicity :	LC50 = 13000 mg/l Species : <i>Oncorhynchus mykiss</i> Duration of exposure : 96 h OECD Guideline 203 (Fish, Acute Toxicity Test)
Crustacean toxicity :	EC50 = 858 mg/l Species : <i>Artemia salina</i> Duration of exposure : 6 h OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Algae toxicity :	ECr50 = 275 mg/l Species : <i>Chlorella vulgaris</i> Duration of exposure : 72 h OECD Guideline 201 (Alga, Growth Inhibition Test)
	EC10 mg/l Species : <i>Chlorella vulgaris</i> Duration of exposure : 72 h OECD Guideline 201 (Alga, Growth Inhibition Test)
DIPROPYLENE GLYCOL (CAS: 25265-71-8)	
Fish toxicity :	LC50 = 46500 mg/l Species : <i>Pimephales promelas</i> Duration of exposure : 96 h OECD Guideline 203 (Fish, Acute Toxicity Test)
Crustacean toxicity :	EC50 > 100 mg/l Species : <i>Daphnia magna</i> OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Algae toxicity :	ECr50 > 100 mg/l Species : <i>Scenedesmus subspicatus</i> Duration of exposure : 72 h OECD Guideline 201 (Alga, Growth Inhibition Test)
Aquatic plant toxicity :	Species : Others

12.1.2. Mixtures

No aquatic toxicity data available for the mixture.



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12.2. Persistence and degradability

The product should be partially or slowly biodegradable

12.2.1. Substances

PROPAN-2-OL (CAS: 67-63-0)

Biodegradability : Rapidly degradable.
DBO5/DCO = 0.53

BUTANONE (CAS: 78-93-3)

Biodegradability : Rapidly degradable.

ETHANOL (CAS: 64-17-5)

Biodegradability : Rapidly degradable.

DIPROPYLENE GLYCOL (CAS: 25265-71-8)

Biodegradability : no degradability data is available, the substance is considered as not degrading quickly.

12.3. Bioaccumulative potential

No known potentialities

12.3.1. Substances

PROPAN-2-OL (CAS: 67-63-0)

Octanol/water partition coefficient : log K_{ow} = 0.05

DIPROPYLENE GLYCOL (CAS: 25265-71-8)

Octanol/water partition coefficient : log K_{ow} = -0.462
REACH Method A.8 (Partition Coefficient)

Bioaccumulation : BCF < 4.6
Species : Cyprinus sp. (Fish)
OECD Guideline 305 (Bioconcentration: Flow-through Fish Test)

12.4. Mobility in soil

Do not discharge into surface water or sanitary sewer system

12.5. Results of PBT and vPvB assessment

No data available.

12.6. Endocrine disrupting properties

No data available.

12.7. Other adverse effects

No data available.

German regulations concerning the classification of hazards for water (WGK, AwSV Annex I, KBws) :

WGK 1 : Slightly hazardous for water.

SECTION 13 : DISPOSAL CONSIDERATIONS

Proper waste management of the mixture and/or its container must be determined in accordance with Directive 2008/98/EC.

13.1. Waste treatment methods

Do not pour into drains or waterways.

Waste :

Waste management is carried out without endangering human health, without harming the environment and, in particular without risk to water, air, soil, plants or animals.

Recycle or dispose of waste in compliance with current legislation, via a certified collector or company.

Do not contaminate the ground or water with waste, do not dispose of waste into the environment.

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Respect the local and national regulations

Soiled packaging :

Empty container completely. Keep label(s) on container.

Give to a certified disposal contractor.

Respect the local and national regulations

SECTION 14 : TRANSPORT INFORMATION

Transport product in compliance with provisions of the ADR for road, RID for rail, IMDG for sea and ICAO/IATA for air transport (ADR 2023 - IMDG 2022 [41-22] - ICAO/IATA 2023 [64]).

14.1. UN number or ID number

1170

14.2. UN proper shipping name

UN1170=ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)

14.3. Transport hazard class(es)

- Classification :



3

14.4. Packing group

III

14.5. Environmental hazards

-

14.6. Special precautions for user

ADR/RID	Class	Code	Pack gr.	Label	Ident.	LQ	Provis.	EQ	Cat.	Tunnel
	3	F1	III	3	30	5 L	144 601	E1	3	D/E

IMDG	Class	2°Label	Pack gr.	LQ	EMS	Provis.	EQ	Stowage Handling	Segregation
	3	-	III	5 L	F-E. S-D	144?223	E1	Category A	-

IATA	Class	2°Label	Pack gr.	Passager	Passager	Cargo	Cargo	note	EQ
	3	-	III	355	60 L	366	220 L	A3 A58 A180	E1
	3	-	III	Y344	10 L	-	-	A3 A58 A180	E1

For limited quantities, see part 2.7 of the OACI/IATA and chapter 3.4 of the ADR and IMDG.

For excepted quantities, see part 2.6 of the OACI/IATA and chapter 3.5 of the ADR and IMDG.

14.7. Maritime transport in bulk according to IMO instruments

No data available.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Classification and labelling information included in section 2:

The following regulations have been used:

- EU Regulation No. 1272/2008 amended by EU Regulation No. 2022/692 (ATP 18)

Container information:

No data available.

Restrictions applied under Title VIII of Regulation (EC) No. 1907/2006 (REACH):

The mixture does not contain any substance restricted under Annex XVII of Regulation (EC) No. 1907/2006 (REACH):
<https://echa.europa.eu/substances-restricted-under-reach>.



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Explosives precursors :

The mixture does not contain any substance subject to Regulation (EU) 2019/1148 on the marketing and use of explosives precursors.

Particular provisions :

No data available.

German regulations concerning the classification of hazards for water (WGK, AwSV Annex I, KBws) :

WGK 1 : Slightly hazardous for water.

15.2. Chemical safety assessment

No data available.

SECTION 16 : OTHER INFORMATION

Since the user's working conditions are not known by us, the information supplied on this safety data sheet is based on our current level of knowledge and on national and community regulations.

The mixture must not be used for other uses than those specified in section 1 without having first obtained written handling instructions.

It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations.

The information in this safety data sheet must be regarded as a description of the safety requirements relating to the mixture and not as a guarantee of the properties thereof.

Wording of the phrases mentioned in section 3 :

H225	Highly flammable liquid and vapour.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
EUH066	Repeated exposure may cause skin dryness or cracking.

Abbreviations and acronyms :

LD50 : The dose of a test substance resulting in 50% lethality in a given time period.

LC50 : The concentration of a test substance resulting in 50% lethality in a given period.

EC50 : The effective concentration of substance that causes 50% of the maximum response.

ECr50 : The effective concentration of substance that causes 50% reduction in growth rate.

REACH : Registration, Evaluation, Authorization and Restriction of Chemical Substances.

ATE : Acute Toxicity Estimate

BW : Body Weight

DNEL : Derived No-Effect Level

PNEC : Predicted No-Effect Concentration

UFI : Unique formulation identifier.

STEL : Short-term exposure limit

TWA : Time Weighted Averages

TMP : French Occupational Illness table

TLV : Threshold Limit Value (exposure)

AEV : Average Exposure Value.

ADR : European agreement concerning the international carriage of dangerous goods by Road.

IMDG : International Maritime Dangerous Goods.

IATA : International Air Transport Association.

ICAO : International Civil Aviation Organisation

RID : Regulations concerning the International carriage of Dangerous goods by rail.

WGK : Wassergefährdungsklasse (Water Hazard Class).

GHS02 : Flame

PBT: Persistent, bioaccumulable and toxic.

vPvB : Very persistent, very bioaccumulable.

SVHC : Substances of very high concern.