

TORNADE BIOTECH MENTHE

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 : TORNADE BIOTECH MENTHE
Product code : 103752-103742

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

Degreaser, disinfectant.
Professional use.

1.3. Details of the supplier of the safety data sheet

IPC - 10 Quai Malbert
29200 BREST France
Tél : +33(0)2.98.43.45.44 - Fax : +33 (0)2.98.44.22.53
ipc@groupe-ipc.com

1.4. Emergency telephone number : +33 (0)1 45 42 59 59.

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

Other emergency numbers

United Kingdom : Guy's & St Thomas' Poisons Unit, London: +44 870 243 2241

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 3 (Flam. Liq. 3, H226).
Skin corrosion, Category 1C (Skin Corr. 1C, H314).
Serious eye damage, Category 1 (Eye Dam. 1, H318).

2.2. Label elements

Biocidal detergent mixture (see section 15).

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

Hazard pictograms :



GHS02



GHS05

Signal Word :

DANGER

Product identifiers :

607-743-00-5 L-(+)-LACTIC ACID
EC 500-220-1 D-GLUCOPYRANOSE, OLIGOMÉRIQUES, DÉCYL OCTYL GLYCOSIDES
CAS 1591782-62-5 D-GLUCITOL, 1-DEOXY-1-(METHYLAMINO)-, N-C8-10 ACYL DERIVS.

Hazard statements :

H226 Flammable liquid and vapour.
H314 Causes severe skin burns and eye damage.

Precautionary statements - Prevention :

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P264 Wash hands thoroughly after handling.
P280 Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary statements - Response :

P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

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P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER, a doctor.
Precautionary statements - Disposal :
P501 Dispose of contents/container in accordance with local / regional / national / international regulations.

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 59 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 | % |
|---|---|------|---------------------|
| INDEX: 607-743-00-5 CAS: 79-33-4 EC: 201-196-2 L-(+)-LACTIC ACID | GHS05 Dgr Skin Corr. 1C, H314 Eye Dam. 1, H318 EUH071 | | 2.5 \leq x % < 10 |
| INDEX: 64_17_5A CAS: 64-17-5 EC: 200-578-6 REACH: 01-2119457610-43 ETHANOL | GHS07, GHS02 Dgr Flam. Liq. 2, H225 Eye Irrit. 2, H319 | [i] | 2.5 \leq x % < 10 |
| INDEX: E422 CAS: 56-81-5 EC: 200-289-5 GLYCEROL | | [i] | 1 \leq x % < 2.5 |
| INDEX: 68515_73_1 CAS: 68515-73-1 EC: 500-220-1 REACH: 01-2119488530-36 D-GLUCOPYRANOSE, OLIGOMÉRIQUES, DÉCYL OCTYL GLYCOSIDES | GHS05 Dgr Eye Dam. 1, H318 | | 1 \leq x % < 2.5 |
| INDEX: 1591782_62_5 CAS: 1591782-62-5 REACH: 01-2120028964-50 D-GLUCITOL, 1-DEOXY-1-(METHYLAMINO)-, N-C8-10 ACYL DERIVS. | GHS07, GHS05 Dgr Eye Dam. 1, H318 Acute Tox. 4, H332 | | 1 \leq x % < 2.5 |
| INDEX: 57_55_6 CAS: 57-55-6 EC: 200-338-0 REACH: 01-2119456809-23 PROPYLENE GLYCOL | | [i] | 0.1 \leq x % < 1 |

Specific concentration limits:

| Identification | Specific concentration limits | ATE |
|--|----------------------------------|--|
| INDEX: 64_17_5A CAS: 64-17-5 EC: 200-578-6 REACH: 01-2119457610-43 ETHANOL | Eye Irrit. 2A: H319 $C \geq$ 50% | inhalation: ATE = 51 mg/l 4h oral: ATE = 10470 mg/kg BW |

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| | | |
|---|--|--------------------------|
| INDEX: 1591782_62_5 CAS: 1591782-62-5 REACH: 01-2120028964-50 D-GLUCITOL, 1-DEOXY-1-(METHYLAMINO)-, N-C8-10 ACYL DERIVS. | | oral: ATE = 500 mg/kg BW |
|---|--|--------------------------|

Information on ingredients :

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

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

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 :

In the event of massive inhalation, remove the person to fresh air and keep warm and at rest.

In the event of splashes or contact with eyes :

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

Regardless of the initial state, refer the patient to an ophthalmologist and show him the label.

In the event of splashes or contact with skin :

Remove any soiled or splashed clothing immediately.

Watch out for any remaining product between skin and clothing, watches, shoes, etc.

If the contaminated area is widespread and/or there is damage to the skin, a doctor must be consulted or the patient transferred to hospital.

In case of skin contact, rinse with plenty of water for at least 15 minutes. Contact a doctor.

In the event of swallowing :

Do not give the patient anything orally.

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 immediately, 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
- 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

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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

Due to the toxicity of the gas emitted on thermal decomposition of the products, fire-fighting personnel are to be equipped with autonomous insulating breathing apparatus.

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.

Avoid any contact with the skin and eyes.

If a large quantity has been spilt, evacuate all personnel and only allow intervention by trained operators equipped with safety apparatus.

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

Neutralise with an alkaline decontaminant, such as an aqueous solution of sodium carbonate or similar.

If the ground is contaminated, once the product has been recovered by sponging with an inert and non-combustible absorbent material, wash the contaminated area in plenty of water.

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.

Remove and wash contaminated clothing before re-using.

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

Emergency showers and eye wash stations will be required in facilities where the mixture is handled constantly.

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.

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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 out of reach of children.

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.

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.

Recommended storage temperature: + 4°C to + 40°C

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 :

- UK :

| CAS | TWA : | STEL : | Ceiling : | Definition : | Criteria : |
|-----------------------------|------------------------------------|--------|-----------|--------------|------------|
| 64-17-5 ETHANOL | 1000 ppm 1920 mg/m ³ | | | | |
| 56-81-5 GLYCEROL | 10 mg/m ³ | | | | |
| 57-55-6 PROPYLENE GLYCOL | 10 mg/m ³ | | | | |

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

D-GLUCITOL, 1-DEOXY-1-(METHYLAMINO)-, N-C8-10 ACYL DERIVS. (CAS: 1591782-62-5)

Final use:

Exposure method:
Potential health effects:
DNEL :

Workers.

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

Exposure method:
Potential health effects:
DNEL :

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

Final use:

Exposure method:
Potential health effects:
DNEL :

Consumers.

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

Exposure method:
Potential health effects:
DNEL :

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

Exposure method:
Potential health effects:
DNEL :

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

D-GLUCOPYRANOSE, OLIGOMÉRIQUES, DÉCYL OCTYL GLYCOSIDES (CAS: 68515-73-1)

Final use:

Exposure method:
Potential health effects:

Workers.

Dermal contact.
Long term systemic effects.

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DNEL : 595000 mg/kg body weight/day

Exposure method: Inhalation.
Potential health effects: Long term systemic effects.
DNEL : 420 mg of substance/m³

Final use: **Consumers.**
Exposure method: Ingestion.
Potential health effects: Long term systemic effects.
DNEL : 35,7 mg/kg body weight/day

Exposure method: Dermal contact.
Potential health effects: Long term systemic effects.
DNEL : 357000 mg/kg body weight/day

Exposure method: Inhalation.
Potential health effects: Long term systemic effects.
DNEL : 124 mg of substance/m³

ETHANOL (CAS: 64-17-5)

Final use: **Workers.**
Exposure method: Dermal contact.
Potential health effects: Long term systemic effects.
DNEL : 343 mg/kg body weight/day

Exposure method: Inhalation.
Potential health effects: Short term local effects.
DNEL : 1900 mg of substance/m³

Exposure method: Inhalation.
Potential health effects: Long term systemic effects.
DNEL : 950 mg of substance/m³

Final use: **Consumers.**
Exposure method: Ingestion.
Potential health effects: Short term systemic effects.
DNEL : 87 mg/kg body weight/day

Exposure method: Dermal contact.
Potential health effects: Long term systemic effects.
DNEL : 206 mg/kg body weight/day

Exposure method: Inhalation.
Potential health effects: Short term local effects.
DNEL : 950 mg of substance/m³

Exposure method: Inhalation.
Potential health effects: Long term systemic effects.
DNEL : 114 mg of substance/m³

Predicted no effect concentration (PNEC):

PROPYLENE GLYCOL (CAS: 57-55-6)

Environmental compartment: Soil.
PNEC : 50 mg/kg

Environmental compartment: Fresh water.
PNEC : 206 mg/l

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| | |
|---|--|
| Environmental compartment: PNEC : | Sea water. 26 mg/l |
| D-GLUCITOL, 1-DEOXY-1-(METHYLAMINO)-, N-C8-10 ACYL DERIVS. (CAS: 1591782-62-5) | |
| Environmental compartment: PNEC : | Soil. 36.6 mg/kg |
| Environmental compartment: PNEC : | Fresh water. 10 mg/l |
| Environmental compartment: PNEC : | Sea water. 1 mg/l |
| Environmental compartment: PNEC : | Intermittent waste water. 50 mg/l |
| Environmental compartment: PNEC : | Fresh water sediment. 94 mg/kg |
| Environmental compartment: PNEC : | Marine sediment. 9.4 mg/kg |
| D-GLUCOPYRANOSE, OLIGOMÉRIQUES, DÉCYL OCTYL GLYCOSIDES (CAS: 68515-73-1) | |
| Environmental compartment: PNEC : | Soil. 0,654 mg/kg |
| Environmental compartment: PNEC : | Fresh water. 0.176 mg/l |
| Environmental compartment: PNEC : | Sea water. 0.0176 mg/l |
| Environmental compartment: PNEC : | Intermittent waste water. 0.27 mg/l |
| Environmental compartment: PNEC : | Fresh water sediment. 1,516 mg/kg |
| Environmental compartment: PNEC : | Marine sediment. 0,152 mg/kg |
| Environmental compartment: PNEC : | Waste water treatment plant. 560 mg/l |
| 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 |

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Environmental compartment: Marine sediment.
PNEC : 2.9 mg/kg

Environmental compartment: Waste water treatment plant.
PNEC : 580 mg/l

8.2. Exposure controls

Personal protection measures, such as personal protective equipment

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 with protective sides accordance with standard ISO 16321.

In the event of high danger, protect the face with a face shield.

Prescription glasses are not considered as protection.

Individuals wearing contact lenses should wear prescription glasses during work where they may be exposed to irritant vapours.

Provide eyewash stations in facilities where the product is handled constantly.

- Hand protection

Use suitable protective gloves that are resistant to chemical agents in accordance with standard EN ISO 374-1.

Gloves must be selected according to the application and duration of use at the workstation.

Protective gloves need to be selected according to their suitability for the workstation in question : other chemical products that may be handled, necessary physical protections (cutting, pricking, heat protection), level of dexterity required.

Type of gloves recommended :

- Nitrile rubber (butadiene-acrylonitrile copolymer rubber (NBR))

- Body protection

Avoid skin contact.

Wear suitable protective clothing.

Suitable type of protective clothing :

In the event of substantial spatter, wear liquid-tight protective clothing against chemical risks (type 3) in accordance with EN14605/A1 to prevent skin contact.

In the event of a risk of splashing, wear protective clothing against chemical risks (type 6) in accordance with EN13034/A1 to prevent skin contact.

Wear suitable protective clothing and, in particular, an apron and boots. These items of clothing shall be maintained in good condition and cleaned after use.

Suitable type of protective boots :

In the event of minor spatter, wear protective boots or half-boots against chemical risks in accordance with standard EN13832-2.

In the event of prolonged contact, wear boots or half-boots with liquid-chemical-resistant and waterproof soles and uppers in accordance with standard EN13832-3.

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.

SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical state

Physical state : Fluid liquid.

Colour

Colorless to pale yellow

Odour

Odour threshold : Not stated.

Mint

Melting point

Melting point/melting range : Not specified.

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Freezing point

Freezing point / Freezing range :

Boiling point or initial boiling point and boiling range

Boiling point/boiling range : Not specified.

Flammability

Flammability (solid, gas) : Not stated.

Lower and upper explosion limit

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

:

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

:

Flash point

Flash Point Interval : 23°C <= FP <= 55°C

Auto-ignition temperature

Self-ignition temperature : Not specified.

Decomposition temperature

Decomposition point/decomposition range : Not specified.

pH

pH : 2.25 +/- 0.2.
Slightly acidic.

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 : 1,015 +/- 0,05

Method for determining the density :

ISO 649-2 (Laboratory glassware - Density hydrometers for general purposes - Part 2:
Test methods and use).

Relative vapour density

Vapour density : Not stated.

Particle characteristics

The mixture does not contain nanoforms.

9.2. Other information

No data available.

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.

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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.

Avoid :

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

10.5. Incompatible materials

Keep away from :

- bases

10.6. Hazardous decomposition products

The thermal decomposition may release/form :

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

SECTION 11 : TOXICOLOGICAL INFORMATION

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

11.1.1. Substances

a) Acute toxicity :

PROPYLENE GLYCOL (CAS: 57-55-6)

Oral route : LD50 > 5000 mg/kg body weight
Species : Rat

Dermal route : LD50 > 2000 mg/kg body weight
Species : Rabbit

D-GLUCITOL, 1-DEOXY-1-(METHYLAMINO)-, N-C8-10 ACYL DERIVS. (CAS: 1591782-62-5)

Oral route : LD50 = 500 mg/kg body weight
Species : Rat
OECD Guideline 423 (Acute Oral toxicityAcute Toxic Class Method)

Dermal route : LD50 > 2000 mg/kg body weight
Species : Rat
OECD Guideline 402 (Acute Dermal Toxicity)

Inhalation route (Dusts/mist) : LC50 5 mg/l
Species : Rat
OECD Guideline 436 (Acute Inhalation Toxicity: Acute Toxic Class (ATC) Method)
Duration of exposure : 4 h

D-GLUCOPYRANOSE, OLIGOMÉRIQUES, DÉCYL OCTYL GLYCOSIDES (CAS: 68515-73-1)

Oral route : LD50 <= 5000 mg/kg body weight
Species : Rat
OECD Guideline 401 (Acute Oral Toxicity)

Dermal route : LD50 > 2000 mg/kg body weight
Species : Rabbit
OECD Guideline 402 (Acute Dermal Toxicity)

ETHANOL (CAS: 64-17-5)

Oral route : LD50 = 10470 mg/kg body weight
Species : Rat
OECD Guideline 401 (Acute Oral Toxicity)

Dermal route : LD50 > 2000 mg/kg body weight

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Species : Rabbit
OECD Guideline 402 (Acute Dermal Toxicity)

Inhalation route (n/a) :

LC50 = 51 mg/l
Species : Rat
Duration of exposure : 4 h

b) Skin corrosion/skin irritation :

No data available.

c) Serious damage to eyes/eye irritation :

No data available.

d) Respiratory or skin sensitisation :

No data available.

e) Germ cell mutagenicity :

No data available.

f) Carcinogenicity :

No data available.

g) Reproductive toxicant :

No data available.

h) Specific target organ systemic toxicity - single exposure :

No data available.

i) Specific target organ systemic toxicity - repeated exposure :

No data available.

j) Aspiration hazard :

No data available.

11.1.2. Mixture

11.1.2.1 Information on hazard classes

a) Acute toxicity :

Oral route : No data available.

Dermal route : No data available.

Inhalation route (Dusts/mist) : No data available.

b) Skin corrosion/skin irritation :

May cause irreversible damage to the skin; namely, visible necrosis through the epidermis and into the dermis, following exposure between one and four hours.

Corrosive reactions are typified by ulcers, bleeding, bloody scabs, and, by the end of observation at 14 days, by discolouration due to blanching of the skin, complete areas of alopecia, and scars.

c) Serious damage to eyes/eye irritation :

No data available.

d) Respiratory or skin sensitisation :

No data available.

e) Germ cell mutagenicity :

No data available.

f) Carcinogenicity :

No data available.

g) Reproductive toxicant :

No data available.

h) Specific target organ systemic toxicity - single exposure :

No data available.

i) Specific target organ systemic toxicity - repeated exposure :

No data available.

j) Aspiration hazard :

No data available.

11.1.2.2 Other information

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11.2. Information on other hazards

Endocrine disrupting properties

The mixture does not contain any substance evaluated as an endocrine disruptor with effects on human health.

SECTION 12 : ECOLOGICAL INFORMATION

12.1. Toxicity

12.1.1. Substances

D-GLUCITOL, 1-DEOXY-1-(METHYLAMINO)-, N-C8-10 ACYL DERIVS. (CAS: 1591782-62-5)

Fish toxicity : LC50 > 100 mg/l
Species : Danio rerio
Duration of exposure : 96 h
OECD Guideline 203 (Fish, Acute Toxicity Test)

Crustacean toxicity : EC50 > 100 mg/l
Species : Daphnia magna
Duration of exposure : 48 h
OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)

D-GLUCOPYRANOSE, OLIGOMÉRIQUES, DÉCYL OCTYL GLYCOSIDES (CAS: 68515-73-1)

Fish toxicity : LC50 > 100 mg/l
Species : Brachydanio rerio
Duration of exposure : 96 h

NOEC > 1 mg/l
Species : Brachydanio rerio

Crustacean toxicity : EC50 > 100 mg/l
Species : Daphnia magna
Duration of exposure : 48 h

NOEC > 1 mg/l
Species : Daphnia magna

ETHANOL (CAS: 64-17-5)

Fish toxicity : LC50 = 13000 mg/l
Species : Oncorhynchus mykiss
Duration of exposure : 96 h
OECD Guideline 203 (Fish, Acute Toxicity Test)

Crustacean toxicity : EC50 = 5012 mg/l
Species : Ceriodaphnia dubia
Duration of exposure : 48 h

12.1.2. Mixtures

No aquatic toxicity data available for the mixture.

12.2. Persistence and degradability

The surfactants contained in this preparation comply with the biodegradability criteria as laid down in Regulation (EC) No 648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of Member States and will be provided with their request or at the request of a detergent manufacturer.

12.2.1. Substances

PROPYLENE GLYCOL (CAS: 57-55-6)

Biodegradability : Rapidly degradable.

D-GLUCITOL, 1-DEOXY-1-(METHYLAMINO)-, N-C8-10 ACYL DERIVS. (CAS: 1591782-62-5)

Biodegradability : Rapidly degradable.

D-GLUCOPYRANOSE, OLIGOMÉRIQUES, DÉCYL OCTYL GLYCOSIDES (CAS: 68515-73-1)

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Biodegradability : Rapidly degradable.

ETHANOL (CAS: 64-17-5)
Biodegradability : Rapidly degradable.

12.3. Bioaccumulative potential

No data available.

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

No data available.

12.6. Endocrine disrupting properties

The mixture does not contain any substance evaluated as an endocrine disruptor with environmental effects.

12.7. Other adverse effects

No data available.

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.

Soiled packaging :

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

Give to a certified disposal contractor.

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 2025 - IMDG 2024 [42-24] - ICAO/IATA 2026 [67]).

14.1. UN number or ID number

2924

14.2. UN proper shipping name

UN2924=FLAMMABLE LIQUID, CORROSIVE, N.O.S.
(ethanol, l-(+)-lactic acid)

14.3. Transport hazard class(es)

- Classification :



3+8

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 | FC | III | 3+8 | 38 | 5 L | 274 | E1 | 3 | D/E |

| IMDG | Class | 2°Label | Pack gr. | LQ | EMS | Provis. | EQ | Stowage Handling | Segregation |
|------|-------|---------|----------|----|-----|---------|----|------------------|-------------|
| | | | | | | | | | |

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| | | | | | | | | | |
|--|---|---|-----|-----|----------|---------|----|-------------------|---|
| | 3 | 8 | III | 5 L | F-E, S-C | 223 274 | E1 | Category A SW2 | - |
|--|---|---|-----|-----|----------|---------|----|-------------------|---|

| IATA | Class | 2°Label | Pack gr. | Passager | Passager | Cargo | Cargo | note | EQ |
|------|-------|---------|----------|----------|----------|-------|-------|---------|----|
| | 3 | 8 | III | 354 | 5 L | 365 | 60 L | A3 A803 | E1 |
| | 3 | 8 | III | Y342 | 1 L | - | - | A3 A803 | 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. 2023/707.
- EU Regulation No. 1272/2008 amended by EU Regulation No. 2025/1222. (ATP 23)

Container information:

No data available.

Particular provisions :

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>.

Authorisations agreed under Title VII of Regulation (EC) No.1907/2006 (REACH):

The mixture does not contain any substance subject to authorisation according to Annex XIV of REACH Regulation (EC) No 1907/2006:
<https://echa.europa.eu/fr/authorisation-list>.

Ozone-depleting substances (Regulation (EC) No 2024/590).

The mixture does not contain any substance posing a risk to the ozone layer.

Persistent organic pollutants (POP) (Regulation (EU) 2019/1021):

The mixture does not contain a persistent organic pollutant.

PIC Regulation (EU) No 649/2012 concerning the export and import of hazardous chemicals (Rotterdam Convention):

The mixture is not subject to the Prior Informed Consent (PIC) procedure.

Explosives precursors :

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

Labelling for detergents (EC Regulation No. 648/2004,907/2006) :

- less than 5 % : anionic surfactants
- less than 5 % : non-ionic surfactants
- disinfectants
- perfumes
- allergenic fragrances :

Limonene

Labelling for biocidal products (Regulation (UE) n° 528/2012) :

| Name | CAS | % | Product-type |
|-------------------|---------|------------|--------------|
| L-(+)-LACTIC ACID | 79-33-4 | 64.80 g/kg | 02 04 |
| ETHANOL | 64-17-5 | 62.40 g/kg | 02 04 |

Product-type 2 : Disinfectants and algaeccides not intended for direct application to humans or animals.

Product-type 4 : Food and feed area.

15.2. Chemical safety assessment

No data available.

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SECTION 16 : OTHER INFORMATION

Changes from the previous version :

- Section 1
- Section 3
- Section 15

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 :

| | |
|--|--------------------------|
| Classification in accordance with Regulation (EC) No 1272/2008 | Classification procedure |
| Flam. Liq. 3, H226 | Weight of evidence. |
| Skin Corr. 1C, H314 | Calculation method. |
| Eye Dam. 1, H318 | Calculation method. |

Wording of the phrases mentioned in section 3 :

| | |
|--------|--|
| H225 | Highly flammable liquid and vapour. |
| H314 | Causes severe skin burns and eye damage. |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |
| H332 | Harmful if inhaled. |
| EUH071 | Corrosive to the respiratory tract. |

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.
LQ : Limited Quantity
EQ : Excepted Quantity
EmS : Emergency Schedule
E : Packing Instruction
NOEC : The concentration with no observed effect.
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 Average
VLE : Threshold Limit Value (exposure)
VME : Average Exposure Value.
ADR : Agreement concerning the international carriage of dangerous goods by road.
GHS02 : Flame
GHS05 : Corrosion
IATA : International Air Transport Association.
IMDG : International Maritime Dangerous Goods.
ICAO : International Civil Aviation Organisation
PBT: Persistent, bioaccumulable and toxic.
PIC: Prior Informed Consent.
POP: Persistent Organic Pollutant.
RID : Regulations concerning the International carriage of Dangerous goods by rail.
SVHC : Substances of very high concern.
WGK : Water Hazard Class.

The information contained in this safety data sheet is based on our current knowledge at the time of publication and is provided in good faith. It does not constitute any guarantee of specific product properties nor establish any contractual relationship. The user remains solely responsible for safe and compliant use of the product in accordance with current regulations.
