

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier

**ESSENCE DE TEREBENTHINE**

#### Trade name: TURPENTINE EO

#### Substance name: Gum turpentine oil

#### CAS number: 8006-64-2

#### EC number: 932-349-8

#### Index number: 650-002-00-6

#### REACH Registration number: 01-2119553060-53-0000

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

Relevant identified uses : production and distribution of the substance, intermediate, fragrance substance, solvents, adhesives and sealants, coatings and inks

### 1.3 Details of the supplier of the safety data sheet

#### Manufacturer/Supplier:

LES DERIVES RESINIQUES & TERPENIQUES (DRT)

30 rue Gambetta

BP 90206

40105 DAX CEDEX

FRANCE

Tel: 33-(0)5 58 56 62 00

Fax: 33-(0)5 58 56 62 40

Email: [fds@drt.fr](mailto:fds@drt.fr)

### 1.4 Emergency telephone numbers

CHEMTREC (24/24 – 7/7)

International: +1 703 741 5970

From United Kingdom (London): 0870 820 0418 / 02038073798

Other countries: see section 16

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

#### Classification according to Regulation (EC) No 1272/2008:



GHS02 flame

Flam. Liq. 3

H226 Flammable liquid and vapour.



GHS08 health hazard

Asp. Tox. 1

H304 May be fatal if swallowed and enters airways.



GHS09 environment

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.



GHS07 exclamation mark

Acute Tox. 4

H302 Harmful if swallowed.

Acute Tox. 4

H312 Harmful in contact with skin.

Acute Tox. 4

H332 Harmful if inhaled.

Skin Irrit. 2

H315 Causes skin irritation.

Eye Irrit. 2

H319 Causes serious eye irritation.

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Skin Sens. 1B H317 May cause an allergic skin reaction.

· **Information concerning particular hazards for human and environment:**

Effects on human health:

if swallowed accidentally, the product may enter the lungs due to its low viscosity and lead to the rapid development of very serious pulmonary lesions (medical survey for 48 hours minimum).

· **2.2 Label elements**

· **Labelling according to Regulation (EC) No 1272/2008:**

The substance is classified and labelled according to the GB CLP regulation.

· **Hazard pictograms:**



GHS02 GHS07 GHS08 GHS09

· **Signal word:** Danger

· **Hazard statements:**

H226 Flammable liquid and vapour.

H302+H312+H332 Harmful if swallowed, in contact with skin or if inhaled.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

H304 May be fatal if swallowed and enters airways.

H411 Toxic to aquatic life with long lasting effects.

· **Precautionary statements:**

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

P331 Do NOT induce vomiting.

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P501 Dispose of contents and container in accordance with local/regional/national/international regulations.

· **Additional information:** The product contains dipentene (CAS 138-86-3).

· **2.3 Other hazards**

· **Results of PBT and vPvB assessment**

· **PBT:**

According to Annex XIII of REACH Regulation, the substance is not considered to be Persistent, Bioaccumulative and Toxic.

· **vPvB:**

According to Annex XIII of REACH Regulation, the substance is not considered to be very Persistent and very Bioaccumulative.

· **Determination of endocrine-disrupting properties**

The substance is not included in the list established in accordance with Article 59(1) of REACH regulation for having endocrine disrupting properties, and is not a substance identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/210056 or Commission Regulation (EU) 2018/605.

**SECTION 3: Composition/information on ingredients**

· **3.1 Substances**

The product is a UVCB substance mainly composed of alpha-pinene and beta-pinene. The following components are present in lower quantity: dipentene, camphene, myrcene, beta-phellandrene, paracymene.

· **Identification number(s)**

· **CAS number:** 8006-64-2

· **EC number:** 932-349-8

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- **Index number:** 650-002-00-6
- **Description:** Gum turpentine oil

### SECTION 4: First aid measures

#### · 4.1 Description of first aid measures

##### · **After inhalation:**

Supply fresh air. If symptoms are experienced, get medical attention.  
In case of unconsciousness place patient stably in side position for transportation.

##### · **After skin contact:**

Immediately rinse with plenty of water.  
Remove contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse.  
Get medical attention if irritation or skin rash occurs.

##### · **After eye contact:**

Immediately rinse with plenty of water. Remove contact lenses, if present and easy to do. Hold eyelids apart and flush eyes with plenty of cool low-pressure water for 15 minutes. Consult an ophthalmologist.

##### · **After swallowing:**

Do NOT induce vomiting.  
If the person is conscious, rinse out mouth with water.  
Call for a doctor immediately.

#### · 4.2 Most important symptoms and effects, both acute and delayed Pulmonary effects if swallowed accidentally.

#### · 4.3 Indication of any immediate medical attention and special treatment needed

If swallowed accidentally, medical survey for 48 hours minimum.

### SECTION 5: Firefighting measures

#### · 5.1 Suitable extinguishing agents

Foam  
Fire-extinguishing powder  
Carbon dioxide (CO<sub>2</sub>)

#### · 5.2 Special hazards arising from the substance or mixture In case of fire, may release irritant and toxic fumes.

#### · 5.3 Advice for firefighters

##### · **Protective equipment:**

Firefighters should wear appropriate protective equipment and self-contained breathing apparatus.

##### · **Additional information:** Cool endangered receptacles with water spray.

### SECTION 6: Accidental release measures

#### · 6.1 Personal precautions, protective equipment and emergency procedures

Wear appropriate personal protective equipment. Keep unprotected persons away.  
Provide adequate ventilation.  
Keep away from sources of ignition.

#### · 6.2 Environmental precautions

Do not allow product to reach soil, waterways, drains and sewers.  
Inform the relevant authorities if the product has caused environmental pollution (soil, waterways, drains or sewers).

#### · 6.3 Methods and material for containment and cleaning up

Small spills:  
Absorb spilled liquid with inert absorbent. Collect in an appropriate container properly labelled. Close it for disposal.  
Large spills:  
Stop spill if it can be done without danger. Dike. Pump as much liquid as possible with an explosion-proof pump or a hand pump. Absorb the remaining liquid with inert absorbent. Collect in an appropriate container properly labelled.  
Close it for disposal. Use only non-sparking tools.

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### · 6.4 Reference to other sections

See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

## SECTION 7: Handling and storage

### · 7.1 Precautions for safe handling

Wear appropriate personal protective equipment. Provide adequate ventilation in the workplace.

### · Information about fire - and explosion protection:

Protect from heat.

Keep ignition sources away.

Protect against electrostatic charges.

Use only non-sparking tools.

### · 7.2 Conditions for safe storage

If possible, store the drums or ecobulk under shelter in a cool and well ventilated place.

Keep container type drums or ecobulk tightly closed.

Keep away from sources of ignition.

Protect drums or ecobulk from high heat and direct sunlight.

All equipments including ventilation systems must be equipotential and earthed.

### · Further information about storage conditions:

Recommended materials for storage: stainless steel, aluminium.

Some plastics and elastomers may not be compatible with the product.

### · 7.3 Specific end use(s) Only identified uses listed in section 1 are covered by exposure scenarios.

## SECTION 8: Exposure controls/personal protection

### · 8.1 Control parameters

### · Components with limit values that require monitoring at the workplace:

Gum turpentine oil (CAS 8006-64-2)

Belgium: limit value - 8 hours = 20 ppm

Denmark: limit value - 8 hours = 140 mg/m<sup>3</sup> (25 ppm)

Denmark: limit value - short term = 280 mg/m<sup>3</sup> (50 ppm)

Finland: limit value - 8 hours = 140 mg/m<sup>3</sup> (25 ppm)

Finland: limit value - short term = 280 mg/m<sup>3</sup> (50 ppm)

France: limit value - 8 hours = 560 mg/m<sup>3</sup> (100 ppm)

Germany (DFG): limit value - 8 hours = 28 mg/m<sup>3</sup> (5 ppm)

Germany (DFG): limit value - short term = 56 mg/m<sup>3</sup> (10 ppm)

Hungary: limit value - 8 hours = 560 mg/m<sup>3</sup>

Hungary: limit value - short term = 560 mg/m<sup>3</sup>

Ireland: limit value - 8 hours = 112 mg/m<sup>3</sup> (20 ppm)

Ireland: limit value - short term = 840 mg/m<sup>3</sup> (150 ppm)

Latvia: limit value - 8 hours = 300 mg/m<sup>3</sup>

Norway: limit value - 8 hours = 140 mg/m<sup>3</sup> (25 ppm)

Poland: limit value - 8 hours = 112 mg/m<sup>3</sup>

Poland: limit value - short term = 300 mg/m<sup>3</sup>

Romania: limit value - 8 hours = 400 mg/m<sup>3</sup>

Romania: limit value - short term = 500 mg/m<sup>3</sup>

Spain: limit value - 8 hours = 113 mg/m<sup>3</sup> (20 ppm)

Sweden: limit value - 8 hours = 150 mg/m<sup>3</sup> (25 ppm)

Sweden: limit value - short term = 300 mg/m<sup>3</sup> (50 ppm)

Switzerland: limit value - 8 hours = 112 mg/m<sup>3</sup> (20 ppm)

Switzerland: limit value - short term = 224 mg/m<sup>3</sup> (40 ppm)

United Kingdom: limit value - 8 hours = 566 mg/m<sup>3</sup> (100 ppm)

United Kingdom: limit value - short term = 850 mg/m<sup>3</sup> (150 ppm)

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• **DNELs**

• **DNEL (Derived No-Effect Level): Workers - Acute / short-term exposure** Local effects - dermal: 161 µg/cm<sup>2</sup>

• **DNEL (Derived No-Effect Level): Workers - Long-term exposure**

Systemic effects - inhalation: 3.8 mg/m<sup>3</sup>

Systemic effects - dermal: 1.17 mg/kg body weight/day

• **DNEL (Derived No-Effect Level): General population - Acute / short-term exposure**

Local effects - dermal: 81 µg/cm<sup>2</sup>

• **DNEL (Derived No-Effect Level): General population - Long-term exposure**

Systemic effects - inhalation: 0.674 mg/m<sup>3</sup>

Systemic effects - dermal: 0.417 mg/kg body weight/day

Systemic effects - oral: 0.417 mg/kg body weight/day

• **PNECs**

• **PNEC (Predicted No-Effect Concentration) aqua (freshwater):** 30 µg/L

• **PNEC (Predicted No-Effect Concentration) aqua (marine water):** 3 µg/L

• **PNEC (Predicted No-Effect Concentration) Sewage Treatment Plant:** 6.6 mg/L

• **PNEC (Predicted No-Effect Concentration) sediment (freshwater):** 7.75 mg/kg sediment dry weight

• **PNEC (Predicted No-Effect Concentration) sediment (marine water):** 0.775 mg/kg sediment dry weight

• **PNEC (Predicted No-Effect Concentration) soil:** 1.53 mg/kg soil dry weight

• **PNEC (Predicted No-Effect Concentration) oral:** 4 mg/kg food

• **Additional information:**

This sheet is based on the current valid lists for occupational exposure limit values at the time of its preparation. The DNELs and PNECs values are derived from the chemical safety assessment conducted for REACH.

Occupational exposure limits and DNELs are health-based but they are not necessarily set in the same way. The primary duty is to comply with risk management measures which enable to limit exposures as much as possible and to be in line with exposure reference levels.

• **8.2 Exposure controls**

• **General protective and hygienic measures:**

The usual precautionary measures are to be adhered to when handling chemicals. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

Immediately remove all soiled and contaminated clothing.

Avoid contact with eyes and skin.

• **Personal protective equipment**

• **Respiratory protection:**

If ventilation is insufficient, use a breathing apparatus (filtering device with type A cartridge or insulating device with a source of fresh air independent of the ambient air).

• **Hand protection**

Protective gloves resistant to chemicals (standard EN 374-1). They should be replaced regularly and if there is any indication of degradation.

• **Eye/face protection**

Safety glasses (standard EN 166).

For qualifying operations with increased risk (eg: connection/disconnection of hoses, purges, sampling, etc.) wear safety glasses (standard EN 166) AND a face shield.

• **Body protection:** Protective work clothing.

## SECTION 9: Physical and chemical properties

• **9.1 Information on basic physical and chemical properties**

• **General Information**

• **Appearance:**

• **Physical state:** Liquid

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· <b>Colour:</b>	Colourless
· <b>Odour:</b>	Turpentine-like
· <b>Change in condition</b>	
· <b>Melting/freezing point:</b>	-60°C [OECD 102 and Regulation (EC) No.440/2008 A1 test by analysis differential scanning calorimetry (DSC)]
· <b>Boiling point or boiling range:</b>	154°C (literature data)
· <b>Flammability:</b>	The substance is ignitable
· <b>Lower and upper explosion limits</b>	
· <b>Lower:</b>	No data available
· <b>Upper:</b>	No data available
· <b>Flash point:</b>	34°C [equilibrium method (closed cup)]
· <b>Auto-ignition temperature:</b>	253°C [Regulation (EC) No. 440/2008 / EU A.15 test / spontaneous inflammation temperature of liquids and gases]
· <b>Decomposition temperature:</b>	Not determined
· <b>pH value:</b>	Not applicable
· <b>Viscosity</b>	
· <b>Kinematic viscosity:</b>	Not determined
· <b>Dynamic viscosity:</b>	1,30 mPa.s (25°C) [OECD 114 / rotational viscometer]
· <b>Solubility</b>	
· <b>in water:</b>	25,5 mg/L (20°C) [OECD 105/ Regulation (EC) No. 440/2008 / EU A.6 test / flask method]
· <b>Partition coefficient (n-octanol/water):</b>	log Kow = 4,49 (25°C) [data on alpha-pinene - OECD 107 / flask method]
· <b>Vapour pressure:</b>	519 Pa (20°C); 669 Pa (25°C) [OECD 104 / Regulation (EC) No. 440/2008 / EU A.4 test / static method]
· <b>Density and/or relative density</b>	
· <b>Relative density:</b>	0,867 (20°C) [OECD 109 / Regulation (EC) No. 440/2008 / EU A.3 test / oscillating densitometer]
· <b>Vapour density:</b>	Not determined
· <b>Explosive properties:</b>	The components of the substance do not contain any chemical groups associated with explosive properties
· <b>Oxidising properties:</b>	The components of the substance do not contain any chemical groups associated with explosive properties
· <b>Evaporation rate:</b>	Not determined
· <b>9.2 Other information</b>	No other data

### SECTION 10: Stability and reactivity

- **10.1 Reactivity** No data from specific reactivity tests are available for this product or this class of product.
- **10.2 Chemical stability**  
Product stable under storage and handling conditions according to specifications (see section 7).
- **10.3 Possibility of hazardous reactions**  
No hazardous reactions known except those with incompatible products listed in point 10.5.
- **10.4 Conditions to avoid** Keep away from any flame or source of sparks.
- **10.5 Incompatible materials** Oxidizing agents, strong acids and strong bases.
- **10.6 Hazardous decomposition products** No dangerous decomposition products known.

### SECTION 11: Toxicological information

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
- **Acute toxicity** The substance is classified harmful if swallowed, in contact with skin or if inhaled.

· **LD<sub>50</sub>/LC<sub>50</sub> values relevant for classification:**

Oral	LD <sub>50</sub>	> 3 700 mg/kg (rat)
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Dermal	LD <sub>50</sub>	> 2 000 mg/kg (rabbit)
Inhalation	LC <sub>50</sub> (4 h)	13.7 mg/L (rat)

• **Skin corrosion/irritation:**

The substance is classified as a skin irritant category 2 due to the results obtained in in vitro skin irritation studies on reconstructed human epidermis, conducted on beta-pinene and alpha-pinene, which are the major components of gum turpentine oil.

• **Serious eye damage/irritation:**

The substance is classified as an eye irritant category 2 due to the results obtained in an eye irritation study conducted on camphene (OECD 405 Guideline) present as minor component in gum turpentine oil. However, eye irritation studies conducted on beta-pinene (OECD 405 Guideline) and on alpha-pinene (OECD 492 Guideline), which are the major components of gum turpentine oil, have not shown irritant effects to the eyes.

• **Skin sensitisation:**

The substance is classified as a skin sensitizer category 1B as irritant effects were observed in a skin sensitization study conducted with the substance itself according to OECD 406 Guideline. Moreover, irritant effects were also observed in the mouse Local Lymph Node Assay conducted on a major component of the substance (beta-pinene) according to OECD 429 Guideline (LLNA).

• **Mutagenicity/genotoxicity:**

Results of tests conducted with the substance or structurally related substances show that it has no genotoxic potential:

- no mutagenic effects were observed in an Ames test (OECD 471 Guideline) with the substance itself or a related structurally substance (crude sulfate turpentine);
- no genotoxic effects were observed in an in vitro micronucleus assay in human lymphocytes (OECD 487) ;
- no mutagenic effects were observed in an in vitro gene mutation test in mouse lymphoma L5178Y cells conducted on a structurally related substance (crude sulfate turpentine) according to OECD 476 Guideline.

• **Carcinogenicity:**

Based on a 90-day toxicity study on rat conducted with a major component of the substance (alpha-pinene), the substance is not expected to be carcinogenic for humans.

• **Reproductive toxicity:**

A prenatal developmental toxicity study was conducted according to OECD 414 Guideline.

Administration of the substance by gavage to pregnant female rats at doses up to 125 mg/kg body weight/day did not induce effects considered as adverse on pup survival and development.

NOAEL (maternal toxicity) = 60 mg/kg body weight/day (low weight gain and food intake)

NOAEL ( embryo-foetal toxicity) = 125 mg/kg body weight/day

• **Specific target organ toxicity - single exposure:**

No specific target organ toxicity leading to classification was observed in the LD<sub>50</sub> determination studies.

• **Specific target organ toxicity - repeated exposure:**

A repeated dose 90-day oral toxicity study on rodents was conducted according to OECD 408 Guideline. Daily administration of the substance by diet for 13 weeks to male and unmated female rats, was generally well tolerated at dose levels up to 15 000 ppm.

NOAEL = 15 000 ppm / 942 mg/kg body weight/day (males)

NOAEL = 15 000 ppm / 1 033 mg/kg body weight/day (females)

• **Aspiration hazard:** If swallowed accidentally, the product may enter the respiratory tract due to its low viscosity.

• **Additional toxicological information:**

• **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction):**

According to Regulation (EC) No 1272/2008, the substance is not considered to be CMR.

• **11.2 Information on other hazards**

• **Endocrine disrupting properties**

The substance is not included in the list established in accordance with Article 59(1) of REACH regulation for having endocrine disrupting properties, and is not a substance identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/210056 or Commission Regulation (EU) 2018/605.

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### SECTION 12: Ecological information

#### • 12.1 Aquatic toxicity

The substance is classified toxic for long term (category chronic 2) to aquatic life, due to data available on a structurally related substance (crude sulfate turpentine):

Short term data

LL<sub>50</sub> (96 h), fish (Danio rerio): 29 mg/L (nominal concentration - OECD 203 Guideline)

EL<sub>50</sub> (48 h), daphnia (Daphnia magna): 8.8 mg/L (nominal concentration - OECD 202 Guideline)

EC<sub>50</sub> concentration for algae was not determined.

EL<sub>50</sub> (72 h), algae (Desmodesmus subspicatus): 17.1 mg/L (based on growth rate - nominal concentration - OECD 201 Guideline)

EL<sub>50</sub> (72 h), algae (Desmodesmus subspicatus): 16.4 mg/L (based on yield - nominal concentration - OECD 201 Guideline)

Long term data

EL<sub>10</sub> (32 d), fish: 0.43 mg/L (QSAR)

NOAEC (21 d), daphnia (Daphnia magna): > 300 µg/L (nominal concentration - OECD 211 Guideline)

#### • Toxicity to aquatic microorganisms:

Sewage containing the substance can be treated by a municipal sewage treatment plant (taking into account the PNEC STEP given in section 8).

No inhibition effects were observed with the substance on activated sludge (OECD 209 Guideline).

EC<sub>50</sub> (3 h): 736 mg/L (respiration rate - nominal concentration)

#### • 12.2 Persistence and degradability

The substance is readily biodegradable due to the following results obtained with a structurally related substance (crude sulfate turpentine).

Degradation after 28 days: 71.7% (oxygen consumption - OECD 301 F test - domestic activated sludge not adapted).

Further testing will be carried out for REACH purposes.

#### • 12.3 Bioaccumulative potential

No measured data are available for the substance. Based on estimations using 3 different QSARs (Quantitative Structure-Activity Relationship methods), an accumulation in organisms is not expected.

#### • 12.4 Mobility in soil No data available.

#### • 12.5 Results of PBT and vPvB assessment

##### • PBT:

According to Annex XIII of REACH Regulation, the substance is not considered to be Persistent, Bioaccumulative and Toxic.

##### • vPvB:

According to Annex XIII of REACH Regulation, the substance is not considered to be very Persistent and very Bioaccumulative.

#### • 12.6 Endocrine disrupting properties

The substance is not included in the list established in accordance with Article 59(1) of REACH regulation for having endocrine disrupting properties, and is not a substance identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/210056 or Commission Regulation (EU) 2018/605.

#### • 12.7 Other adverse effects No data available.

### SECTION 13: Disposal considerations

#### • 13.1 Waste treatment methods National and regional regulations have to be adhered to.

• **Recommendation:** The product has to be disposed of in an authorised incinerator, according to regulation.

#### • Uncleaned packaging

• **Recommendation:** Packaging has to be sent to an authorised waste treatment facility, for recycling or disposal.

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### SECTION 14: Transport information

· 14.1 UN number or ID number	
· ADR, IMDG, IATA	UN 1299
· 14.2 UN proper shipping name	
· ADR	1299 TURPENTINE, ENVIRONMENTALLY HAZARDOUS
· IMDG	TURPENTINE, MARINE POLLUTANT
· IATA	TURPENTINE
· 14.3 Transport hazard class(es)	
· ADR, IMDG	
	
	
· Class	3 Flammable liquids.
· Label	3
· IATA	
	
· Class	3 Flammable liquids.
· Label	3
· 14.4 Packing group	
· ADR, IMDG, IATA	III
· 14.5 Environmental hazards	Environmentally hazardous substance, liquid; Marine Pollutant
· Marine pollutant:	Symbol (fish and tree)
· Special marking (ADR):	Symbol (fish and tree)
· 14.6 Special precautions for user	Warning: Flammable liquids
· Danger code:	30
· EMS Number:	F-E,S-E
· 14.7 Maritime transport in bulk according to IMO instruments	Not applicable
· Transport/Additional information:	
· ADR	
· Tunnel restriction code	D/E
· Classification code (letter/figure)	F1
· UN "Model Regulation"	UN 1299 TURPENTINE, ENVIRONMENTALLY HAZARDOUS, 3, III

### SECTION 15: Regulatory information

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

Regulation (EC) No 1907/2006 (REACH) \_\_\_\_:

The product does not contain any of the substances included in the following lists

- Annex XIV (authorisation) / substances of very high concern (SVHC)
- Annex XVII (restrictions)

Directive 2012/18/EU:

Product fulfilling the criteria of hazard categories:

- P5c "Flammable liquids, category 3 (H226)",

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- E2 "Hazardous to the Aquatic Environment in Category Chronic 2 (H411)".

- **15.2 Chemical safety assessment** A Chemical Safety Assessment has been carried out.

### SECTION 16: Other information

Information provided in this safety data sheet is based on our experience and present knowledge. It is a description of safety requirements and data given on the product and cannot be considered as specifications. They shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Version** 13.0

- **Previous version:** 12.0 of 06/01/2021

- **Emergency telephone numbers (other countries):**

CHEMTREC In-Country Numbers (24/24 - 7/7)

Argentina (Buenos Aires)\*: +54-11 5983 9431

Australia (Sydney)\*: +61-2 9037 2994

Austria (Vienna)\*: +43-13649237

Belgium (Brussels)\*: +32-2 808 32 37

Brazil (Rio de Janeiro)\*: +55-2139581449

Brazil (Sao Paulo)\*: +55-1143491359

Brazil: 0800 892 0479

Bulgaria (Plovdiv)\*: +359-32570104

Canada: 1 800 424 9300

Canada\*: 703-741-5970

Cayman Islands\*: +345-749-8392

Chile (Santiago)\*: +56-2 2581 4934

China\*: + 4001-204 937

Colombia\*: 01800-710-2151

Costa Rica\*: +506-40003869

Croatia (Zagreb)\*: +385-17776920

Czech Republic (Prague)\*: +420-228880039

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El Salvador (San Salvador)\*: +503 2136 7633

Estonia\*: +372-6681294

Finland (Helsinki)\*: +358-942419014

France\*: +33-975181407

Germany: 0800-181-7059

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Hungary (Budapest)\*: +36-18088425

Iceland (Reykjavik)\*: +354-539 0655

India: 000-800-100-7141

Indonesia: 001-803-017-9114

Ireland (Dublin)\*: +353-19014670

Israel (Tel Aviv)\*: +972-37630639

Italy: 800-789-767

Italy (Milan)\*: +39-0245557031

Japan: 0800-300-5842

Latvia (Riga)\*: +371-66165504

Lithuania (Vilnius)\*: +370-52140238

Luxembourg\*: +352-20202416

Macedonia (Skopje)\*: +389-2 551 7456

Malaysia (Kuala Lumpur)\*: +60-392125794

Malaysia: 1-800-815-308

Mexico: 01-800-681-9531

Netherlands\*: +31-858880596

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NewZealand (Auckland)\*: +64-98010034  
 Nigeria (Lagos)\*: +234 1 227 8883  
 Panama\*: +507-8322475  
 Peru (Lima)\*: +51-17071295  
 Philippines: 1-800-1-116-1020  
 Philippines (Manila)\*: +63 2 8395 3308  
 Poland (Warsaw): +48-223988029  
 Portugal\*: +351-308801773  
 Romania\*: +40-37-6300026  
 Russia: 8-800-100-6346  
 Saudi Arabia (mobil services): +966-8111095861  
 Singapore: 800-101-2201  
 Singapore\*: +65-31581349  
 Slovakia (Bratislava)\*: +421-233057972  
 Slovenia (Ljubjana)\*: +386-18888016  
 South Africa: 0-800-983-611  
 South Korea: 003-0813-2549  
 South Korea\*: 080-880-0468  
 Spain: 900-868 538  
 Spain (Barcelona)\*: +34-931768545  
 Sweden (Stockholm)\*: +46-852503403  
 Switzerland: 0800 564 402  
 Switzerland (Zurich)\*: +41-435082011  
 Taiwan: 00801-148954  
 Taiwan (Taipei)\*: +888-2-7741-4207  
 Thailand: 001-800-13-203-9987  
 Trinidad and Tobago\*: +1-868-224-5716  
 Turkey (Istanbul)\*: +90-212-7055340  
 Ukraine (mobil services): +380-947101374  
 United Kingdom (London)\*: +44-870-8200418 / +44-2038073798  
 USA: 1 800 424 9300  
 USA\*: 703-741-5970

(\*) Phone numbers for countries marked with an asterisk must be dialed within the country.

· **Full text of H and EUH mentions indicated in sections 2 and 3:**

H226: Flammable liquid and vapour  
 H302: Harmful if swallowed  
 H304: May be fatal if swallowed and enters airways  
 H312: Harmful in contact with skin  
 H315: Causes skin irritation  
 H317: May cause an allergic skin reaction  
 H319: Causes serious eye irritation  
 H332: Harmful if inhaled  
 H411: Toxic to aquatic life with long lasting effects

· **Abbreviations and acronyms:**

GB CLP: Regulation (EC) No 1272/2008 on Classification, Labelling and Packaging  
 UVCB: Substances of unknown or variable composition, complex reaction products or biological materials  
 LC<sub>50</sub>: Lethal concentration for 50% of exposed animals  
 LD<sub>50</sub>: Lethal dose for 50% of animals exposed by oral or dermal route  
 OECD: Guidelines from the Organisation for Economic Co-operation and Development  
 LLNA: Local Lymph Node Assay  
 NOAEL: No Observed Adverse Effect Level  
 LL<sub>50</sub>: Median lethal loading rate (lethal level for 50% of fish exposed)  
 EL<sub>50</sub>: Loading rate which leads to a 50 % reduction in treated organisms responses compared to untreated organism responses (algae) or loading rate which causes effects to 50 % of the tested organisms (daphnids)  
 EC<sub>50</sub>: Concentration which leads to a 50% reduction in treated organism responses compared to untreated organism responses (algae) or concentration which causes effects to 50% of the tested organisms (daphnids)  
 SVHC: Substances of Very High Concern  
 PBT: Persistent, Bioaccumulative and Toxic substance  
 vPvB: very Persistent and very Bioaccumulative substance  
 Flam. Liq. 3: Flammable liquids, Category 3

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Acute Tox. 4: Acute toxicity – Category 4  
Skin Irrit. 2: Skin corrosion/irritation, Category 2  
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2  
Skin Sens. 1B: Skin sensitisation, Category 1B  
Asp. Tox. 1: Aspiration hazard, Category 1  
Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

• **Sources:**

Literature and company data  
REACH dossier data

• **Modified data compared to the previous version:**

The SDS has been updated according to Commission Regulation (EU) 2020/878 of 18 June 2020, amending Annex II to Regulation (EC) No 1907/2006 (sections 2, 9, 11, 12)

• **Annex:**

on request at the following address, [fds@drt.fr](mailto:fds@drt.fr)

**End of the safety data sheet**