

# Safety data sheet

according to Article 31 of Regulation No 1907/2006/EC (REACH)

Printing date: 31.05.2018

Version number: 11.0

Revision date: 31.05.2018

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

### 1.1 Product identifier

Trade name: **DERSANTOL**

Product number: 001070

Common substance name: 3-Methyl-5-(2,2,3-trimethylcyclopent-3-en-1-yl)pentan-2-ol

Substance name according to REACH identification requirements:

Reaction products of (2,2,3-trimethylcyclopent-3-en-1-yl)acetaldehyde and butan-2-one, hydrogenated

Common CAS Number: 65113-99-7

EC number: 939-525-3

REACH Registration number: 01-2119975588-15-0000

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

Relevant identified uses: production and distribution of the substance, formulation of mixtures, fragrance substance

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

Manufacturer/Supplier:

LES DERIVES RESINIQUES ET TERPENIQUES (DRT)

30 rue Gambetta

BP 206

F-40105 DAX CEDEX

FRANCE

Tel: 33-(0)558566200

Fax: 33-(0)558566222

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

### 1.4 Emergency telephone numbers

CHEMTREC (24/24 – 7/7)

International: +1 703 527 3887

From United Kingdom (London): 0870 820 0418

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:



GHS09 environment

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



GHS07 exclamation mark

Eye Irrit. 2 H319 Causes serious eye irritation.

### 2.2 Label elements

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

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

Hazard pictograms:



GHS07 GHS09

Signal word: Warning

Hazard statements:

H319 Causes serious eye irritation.

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements:

P273 Avoid release to the environment.

(contd. on page 2)

GB

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**Trade name: DERSANTOL**

(contd. of page 1)

- P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P337+P313 If eye irritation persists: Get medical advice/attention.  
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

**· 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.

## SECTION 3: Composition/information on ingredients

**· 3.1 Chemical characterization: Substance UVCB****· Identification number(s)**

**· Common CAS Number:** 65113-99-7

**· EC number:** 939-525-3

**· Description:**

Reaction products of (2,2,3-trimethylcyclopent-3-en-1-yl)acetaldehyde and butan-2-one, hydrogenated  
Synonym: 3-methyl-5-(2,2,3-trimethylcyclopent-3-en-1-yl)pentan-2-ol

## 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 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** No data available.

**· 4.3 Indication of any immediate medical attention and special treatment needed** No specific indications.

## 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.

(contd. on page 3)

GB

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**Trade name: DERSANTOL**

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

(contd. of page 2)

## 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.

### · 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.

### · 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:

Keep ignition sources away.

Protect from heat.

### · 7.2 Conditions for safe storage

Store if possible under cover in a cool well-ventilated location.

Keep container tightly sealed.

Keep away from sources of ignition.

Protect from heat and direct sunlight.

### · 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: None

#### · DNELs

No DNEL established because of the lack of:

- systemic effects in the toxicological studies conducted with the substance (see section 11)

- and severe local effects

#### · PNECs

· PNEC (Predicted No-Effect Concentration) aqua (freshwater): 1.1 µg/L

· PNEC (Predicted No-Effect Concentration) aqua (marine water): 0.11 µg/L

· PNEC (Predicted No-Effect Concentration) Sewage Treatment Plant: 0.4 mg/L

· PNEC (Predicted No-Effect Concentration) sediment (freshwater): 145 µg/kg sediment dry weight

· PNEC (Predicted No-Effect Concentration) sediment (marine water): 14.5 µg/kg sediment dry weight

· PNEC (Predicted No-Effect Concentration) soil: 28.4 µg/kg soil dry weight

· PNEC (Predicted No-Effect Concentration) oral: 66.67 mg/kg food

· PNEC (Predicted No-Effect Concentration) aqua (intermittent releases): 11 µg/L

(contd. on page 4)

GB

Trade name: DERSANTOL

(contd. of page 3)

· **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.

· **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:** Use suitable respiratory protective device in case of insufficient ventilation.

· **Hand protection:**

Protective gloves resistant to chemicals (standard EN 374-3). They should be replaced regularly and if there is any indication of degradation or chemical breakthrough.

· **Eye protection:** Safety glasses (standard EN 166).

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

## SECTION 9: Physical and chemical properties

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

· **General Information**

· **Appearance:**

Form: Liquid  
Colour: Colourless - slightly yellow

· **Odour:** Sandalwood

· **Odour threshold:** Not determined

· **pH value:** Not applicable

· **Change in condition**

Melting/freezing point: < -50°C  
Initial boiling point or boiling range: 275°C (101.3 kPa)

· **Flash point:** 131°C (closed cup)

· **Auto-ignition temperature:** 250°C (101 kPa)

· **Decomposition temperature:** Not determined

· **Explosive properties:** The substance does not contain any chemical groups associated with explosive properties

· **Oxidising properties:** The substance does not contain any chemical groups associated with oxidising properties

· **Vapour pressure:** 0.247 Pa (25°C)

· **Density**

Relative density: 0.89 - 0.91 (20°C)  
Vapour density: Not determined

· **Evaporation rate:** Not determined

· **Solubility(ies)**

in water: 0.015 g/L (20°C)

· **Partition coefficient: n-octanol/water:** log Kow= 4.6 - 4.8 (25°C)

· **Viscosity**

Kinematic: 197 mm<sup>2</sup>/s (20 ± 0.5°C)  
27.4 mm<sup>2</sup>/s (40 ± 0.5°C)

(contd. on page 5)

GB

Trade name: DERSANTOL

(contd. of page 4)

· 9.2 Other information 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 heat and sources of ignition.
- **10.5 Incompatible materials**  
Strong acids  
Strong oxidising agents  
Strong bases
- **10.6 Hazardous decomposition products** No dangerous decomposition products known.

**SECTION 11: Toxicological information**

- **11.1 Information on toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.

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

Oral	LD <sub>50</sub>	> 6675 mg/kg (rat) > 8900 mg/kg (mouse)
Dermal	LD <sub>50</sub>	> 2000 mg/kg (rat)

- **Skin corrosion/irritation:**  
The substance is not classified as it was found only moderately irritant in a skin irritation study conducted in rabbits according to a method equivalent to OECD Guideline No. 404.
- **Serious eye damage/irritation:**  
A BCOP study (*in vitro* Bovine Corneal Opacity and Permeability assay for identifying ocular corrosives and severe irritants – OECD 437) showed that the substance has no corrosive or highly eye irritating properties. However, the substance was found irritant in an eye irritation study conducted in rabbits according to OECD Guideline No. 405 and is therefore classified in category 2.
- **Skin sensitisation:**  
The substance is not classified based on result of a Guinea Pig Maximisation Test (GPMT) conducted according to OECD Guideline No. 406 where no skin sensitization effects were observed.
- **Mutagenicity/genotoxicity:**  
Results of tests conducted with the substance show that it has no genotoxic potential:
  - no mutagenic effects were observed in a Ames test (OECD 471 Guideline);
  - no genotoxic effects were observed with the substance in an *in vitro* chromosome aberration test in human lymphocytes (OECD 473 Guideline);
  - no mutagenic effects were observed in an *in vitro* gene mutation test in mouse lymphoma L5178Y cells (OECD 476 Guideline).
- **Carcinogenicity:**  
The substance is not expected to be carcinogenic: no mutagenic effects were observed with the substance and there is no evidence from the repeated dose toxicity study that the substance is able to induce hyperplasia or pre-neoplastic lesions.
- **Reproductive toxicity:**  
No toxic effects for reproduction and development are expected from the substance.  
In a combined repeated dose and reproduction/developmental screening test conducted according to OECD guideline No 421, no effects were observed on reproductive performance, gestation parameters, pup survival and development at the highest dose tested (1000 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.

(contd. on page 6)

GB

# Safety data sheet

according to Article 31 of Regulation No 1907/2006/EC (REACH)

Printing date: 31.05.2018

Version number: 11.0

Revision date: 31.05.2018

**Trade name: DERSANTOL**

(contd. of page 5)

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

The substance is not classified based on the following result:

A combined repeated dose and reproduction/developmental screening test was conducted according to OECD guideline No 407. Daily administration of the substance by diet for 28 days to male and unmated female rats was well tolerated at dose levels up to 1000 mg/kg body weight/day. Only effects considered as adaptative or specific to male rats were observed.

NOAEL (No Observed Adverse Effect Level) = 1000 mg/kg body weight/day (highest dose tested)

· **Aspiration hazard:** After swallowing, no entry into the respiratory tract is expected.

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

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

## SECTION 12: Ecological information

**12.1 Aquatic toxicity**

The substance is classified toxic to aquatic life based on the results below:

EC<sub>50</sub> (48 h), daphnia (*Daphnia magna*): 1.1 mg/L (nominal concentration - OECD 202)

LC<sub>50</sub> (96 h), fish (*Pimephales promelas*): 2.3 mg/L (nominal concentration - OECD 203)

EC<sub>50</sub> (72 h), algae (*Pseudokirchneriella subcapitata*): > 17 mg/L (based on growth rate - nominal concentration - OECD 201)

**Toxicity to aquatic microorganisms:**

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

EC<sub>50</sub> (3 h): 40.5 mg/L (respiration rate - nominal concentration - activated sludge - OECD 209)

**12.2 Persistence and degradability**

Readily biodegradable.

Biodegradation achieved in 28 days: 78% (oxygen consumption - assay conducted according to OECD 301F guideline - activated sludge, river water near to a domestic wastewater treatment plant, non adapted).

**12.3 Bioaccumulative potential**

No measured data available. 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 experimental 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 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.

## SECTION 14: Transport information

**14.1 UN Number**

· **ADR, IMDG, IATA**

UN 3082

(contd. on page 7)

GB

**Trade name: DERSANTOL**

(contd. of page 6)

<ul style="list-style-type: none"> <li>· <b>14.2 UN proper shipping name</b></li> <li>· <b>ADR</b></li> <li>· <b>IMDG</b></li> <li>· <b>IATA</b></li> </ul>	3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (mixture 3-methyl-5-(2,2,3-trimethylcyclopent-3-en-1-yl)pentan-2-ol) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (mixture 3-methyl-5-(2,2,3-trimethylcyclopent-3-en-1-yl)pentan-2-ol), Marine pollutant ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (mixture 3-methyl-5-(2,2,3-trimethylcyclopent-3-en-1-yl)pentan-2-ol)
<ul style="list-style-type: none"> <li>· <b>14.3 Transport hazard class(es)</b></li> <li>· <b>ADR, IMDG, IATA</b></li> </ul>	
<ul style="list-style-type: none"> <li>· <b>Class</b></li> <li>· <b>Label</b></li> </ul>	9 Miscellaneous dangerous substances and articles 9
<ul style="list-style-type: none"> <li>· <b>14.4 Packing group</b></li> <li>· <b>ADR, IMDG, IATA</b></li> </ul>	III
<ul style="list-style-type: none"> <li>· <b>14.5 Environmental hazards</b></li> <li>· <b>Marine pollutant:</b></li> <li>· <b>Special marking (ADR):</b></li> <li>· <b>Special marking (IATA):</b></li> </ul>	Environmentally hazardous substance, liquid; Marine Pollutant Symbol (fish and tree) Symbol (fish and tree) Symbol (fish and tree)
<ul style="list-style-type: none"> <li>· <b>14.6 Special precautions for user</b></li> <li>· <b>Danger code:</b></li> <li>· <b>EMS Number:</b></li> </ul>	Warning: Miscellaneous dangerous substances and articles 90 F-A,S-F
<ul style="list-style-type: none"> <li>· <b>14.7 Transport in bulk according to Annex II of Marpol 73/78 and the IBC Code</b></li> </ul>	Not applicable
<ul style="list-style-type: none"> <li>· <b>Transport/Additional information:</b></li> </ul>	
<ul style="list-style-type: none"> <li>· <b>ADR</b></li> <li>· <b>Tunnel restriction code</b></li> <li>· <b>Classification code (letter/figure)</b></li> </ul>	E M6
<ul style="list-style-type: none"> <li>· <b>UN "Model Regulation"</b></li> </ul>	UN 3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (mixture 3-methyl-5-(2,2,3-trimethylcyclopent-3-en-1-yl)pentan-2-ol), 9, 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 category E2 "Hazardous to the Aquatic Environment in Category Chronic 2 (H411)".

(contd. on page 8)

**Trade name: DERSANTOL**

(contd. of page 7)

- **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 11.0**

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

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

Argentina (Buenos Aires): +54 (0)11 5983 9431

Australia (Sydney): +61 (0)2 9037 2994

Bahrain (Bahrain): +973 1619 9372

Belgium (Brussels): +32 (0)2 808 32 37

Brazil (Rio de Janeiro): +55 21 3958 1449

Canada\*: 1 800 424 9300

Chile (Santiago): +56 (0)22 581 4934

China\*: 4001 204 937

Czech Republic (Prague): +420 228 880 039

Colombia\*: 01 800 710 2151

France: +33 (0)975 18 14 07

Germany\*: 0 800 181 7059

Hong Kong\* (Hong Kong): 800 968 793

Hungary (Budapest): +36 (06)1 808 8425

India\*: 000 800 100 7141

Indonesia\*: 001 803 017 9114

Israel (Tel Aviv): +972 (0)3 763 0639

Italy\*: 800 789 767

Italy (Milan): +39 02 4555 7031

Japan (Tokyo): +81 (0)3 4520 9637

Malaysia\*: 1 800 815 308

Mexico\*: 01 800 681 9531

Netherlands: +31 (0)858 880 596

Peru (Lima): +51 1 707 1295

Philippines\*: 1 800 1 116 1020

Poland (Warsaw): +48 22 398 80 29

Singapore\*: 800 101 2201

Singapore: +65 3158 1349

South Africa\*: 0 800 983 611

South Korea\*: 00 308 13 2549

Spain\*: 900 86 85 38

Sweden (Stockholm): +46 (0)8 5250 3403

Switzerland: +41 (0)43 508 20 11

Taiwan\*: 00801 14 8954

Thailand\*: 001 800 13 203 9987

United Kingdom (London): +44 (0)870 820 0418

USA\*: 1 800 424 9300

(\* ) 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:**

H319: Causes serious eye irritation

H411: Toxic to aquatic life with long lasting effects

- **Abbreviations and acronyms:**

CLP: Regulation (EC) No 1272/2008 on Classification, Labelling and Packaging

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)

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

NOAEL: No Observed Adverse Effect Level

(contd. on page 9)

GB



**Safety data sheet**  
**according to Article 31 of Regulation No 1907/2006/EC (REACH)**

Printing date: 31.05.2018

Version number: 11.0

Revision date: 31.05.2018

**Trade name: DERSANTOL**

(contd. of page 8)

OECD: Guidelines from the Organisation for Economic Co-operation and Development  
PBT: Persistent, Bioaccumulative and Toxic substance  
vPvB: very Persistent and very Bioaccumulative substance  
UVCB: Substances of unknown or variable composition, complex reaction products or biological materials  
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2  
Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

- **Sources:** REACH dossier data
- **Modified data compared to the previous version:** Update of transport section (section 14)
- **Annex:**  
on request at the following address, [fds@drf.fr](mailto:fds@drf.fr)

**End of the safety data sheet**

GB