

DECOLETIK - AEROSOL - 5164 A

SAFETY DATA SHEET

(REACH regulation (EC) n° 1907/2006 - n° 2015/830)

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

1.1. Product identifier

Product name : DECOLETIK - AEROSOL

Product code : 5164 A.

UFI : CMV1-307T-Q00F-YT65

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

Peel off labels

Professional use

1.3. Details of the supplier of the safety data sheet

Registered company name : ORAPI.

Address : PARC INDUSTRIEL DE LA PLAINE DE L'AIN - 225 ALLEE DES CEDRES.01150.SAINT-VULBAS.FRANCE.

Telephone : 33-(0)4-74-40-20-20. Fax : 33-(0)4-74-40-20-21.

fds@orapi.com

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

Association/Organisation : INRS .

Other emergency numbers

Emergency Action: In the event of a medical enquiry involving this product, please contact your doctor or local hospital accident and emergency department.

SECTION 2 : HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

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

Aerosol, Category 1 (Aerosol 1, H222 - H229).

Skin irritation, Category 2 (Skin Irrit. 2, H315).

Eye irritation, Category 2 (Eye Irrit. 2, H319).

Skin sensitisation, Category 1B (Skin Sens. 1B, H317).

Specific target organ toxicity (single exposure), Category 3 (STOT SE 3, H336).

Hazardous to the aquatic environment - Chronic hazard, Category 3 (Aquatic Chronic 3, H412).

2.2. Label elements

Mixture for aerosol application.

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

Hazard pictograms :



GHS02



GHS07

Signal Word :

DANGER

Product identifiers :

EC 927-510-4

HYDROCARBONS, C7, N-ALKANES, ISOALKANES, CYCLICS

EC 919-857-5

HYDROCARBONS, C9-C11, N-ALKANES, ISOALKANES, CYCLICS, <2% AROMATICS

EC 938-945-4

TERPINOLENE MULTICONSTITUENT

Hazard statements :

H222

Extremely flammable aerosol.

H229

Pressurised container: May burst if heated.

H315

Causes skin irritation.

H317

May cause an allergic skin reaction.

H319

Causes serious eye irritation.

H336

May cause drowsiness or dizziness.

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|---|--|
| H412 | Harmful to aquatic life with long lasting effects. |
| Precautionary statements - General : | |
| P102 | Keep out of reach of children. |
| Precautionary statements - Prevention : | |
| P210 | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| P211 | Do not spray on an open flame or other ignition source. |
| P251 | Do not pierce or burn, even after use. |
| P260 | Do not breathe spray. |
| P271 | Use only outdoors or in a well-ventilated area. |
| P273 | Avoid release to the environment. |
| P280 | Wear protective gloves, eye protection, face protection. |
| Precautionary statements - Response : | |
| P333 + P313 | If skin irritation or rash occurs: Get medical advice/attention. |
| P337 + P313 | If eye irritation persists: Get medical advice/attention. |
| P362 + P364 | Take off contaminated clothing and wash it before reuse. |
| Precautionary statements - Storage : | |
| P410 + P412 | Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. |

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.

SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

Composition :

| Identification | (EC) 1272/2008 | Note | % |
|---|--|------|---------------------|
| CAS: 64-17-5 EC: 200-578-6 REACH: 01-2119457610-43 ETHANOL | GHS07, GHS02 Dgr Flam. Liq. 2, H225 Eye Irrit. 2, H319 | [1] | 25 \leq x % < 50 |
| CAS: 64742-49-0 EC: 927-510-4 REACH: 01-2119475515-33 HYDROCARBONS, C7, N-ALKANES, ISOALKANES, CYCLICS | GHS07, GHS09, GHS08, GHS02 Dgr Flam. Liq. 2, H225 Asp. Tox. 1, H304 Skin Irrit. 2, H315 STOT SE 3, H336 Aquatic Chronic 2, H411 | | 10 \leq x % < 25 |
| CAS: 64742-48-9 EC: 919-857-5 REACH: 01-2119463258-33 HYDROCARBONS, C9-C11, N-ALKANES, ISOALKANES, CYCLICS, <2% AROMATICS | GHS07, GHS08, GHS02 Dgr Flam. Liq. 3, H226 Asp. Tox. 1, H304 STOT SE 3, H336 EUH:066 | [1] | 10 \leq x % < 25 |
| INDEX: 603-052-00-8 CAS: 5131-66-8 EC: 225-878-4 REACH: 01-2119475527-28 3-BUTOXYPROPAN-2-OL | GHS07 Wng Eye Irrit. 2, H319 Skin Irrit. 2, H315 | | 2.5 \leq x % < 10 |
| EC: 938-945-4 REACH: 01-2119982324-34 TERPINOLENE MULTICONSTITUENT | GHS07, GHS09, GHS08, GHS02 Dgr Flam. Liq. 3, H226 Asp. Tox. 1, H304 Skin Sens. 1B, H317 Eye Irrit. 2, H319 Aquatic Chronic 2, H411 | | 2.5 \leq x % < 10 |

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| | | | |
|--|---|------------|-----------------|
| CAS: 123-86-4 EC: 204-658-1 REACH: 01-2119485493-29 N-BUTYL ACETATE | GHS07, GHS02 Wng Flam. Liq. 3, H226 STOT SE 3, H336 EUH:066 | [1] | 2.5 <= x % < 10 |
| CAS: 124-38-9 EC: 204-696-9 CARBON DIOXIDE | GHS04 Wng Press. Gas, H281 | [1] [7] | 2.5 <= x % < 10 |

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

Information on ingredients :

[7] Propellant gas

[1] 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 exposed to fresh air. Keep warm and at rest.

If the person is unconscious, place in recovery position. Notify a doctor in all events, to ascertain whether observation and supportive hospital care will be necessary.

If breathing is irregular or has stopped, effect mouth-to-mouth resuscitation and call a doctor.

Consult a physician in case of disorder.

In the event of splashes or contact with eyes :

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

If there is any redness, pain or visual impairment, consult an ophthalmologist.

In the event of splashes or contact with skin :

Remove contaminated clothing and wash the skin thoroughly with soap and water or a recognised cleaner.

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

In the event of an allergic reaction, seek medical attention.

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.

Consult a doctor in the event of irritation.

In the event of swallowing :

Do not give the patient anything orally.

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

See section 11.

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

Treat symptomatically.

SECTION 5 : FIREFIGHTING MEASURES

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.

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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)
- various hydrocarbons
- aldehydes

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 inhaling the vapors.

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.

If the product contaminates waterways, rivers or drains, alert the relevant authorities in accordance with statutory procedures

Use drums to dispose of collected waste in compliance with current regulations (see section 13).

6.3. Methods and material for containment and cleaning up

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.

Individuals with a history of skin sensitisation should not, under any circumstance, handle this mixture.

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.

Remove contaminated clothing and protective equipment before entering eating areas.

Avoid contact with skin, eyes and clothings.

Do not breathe vapours, fume, mist.

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.

Do not spray on a naked flame or any incandescent material.

Do not pierce or burn, even after use.

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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.
Do not breathe in aerosols.
Avoid inhaling vapors. Carry out any industrial operation which may give rise to this in a sealed apparatus.
Provide vapor extraction at the emission source and also general ventilation of the premises.
Also provide breathing apparatus for certain short tasks of an exceptional nature and for emergency interventions.
In all cases, recover emissions at source.
Avoid skin and eye contact with this mixture.
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.
Never open the packages under pressure.

7.2. Conditions for safe storage, including any incompatibilities

No data available.

Storage

Keep out of reach of children.
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.
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.
Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50°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 :

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

| CAS | VME-mg/m ³ : | VME-ppm : | VLE-mg/m ³ : | VLE-ppm : | Notes : |
|----------|----------------------------|-----------|-------------------------|-----------|---------|
| 123-86-4 | 241 | 50 | 723 | 150 | |
| 124-38-9 | 9000 | 5000 | - | - | - |

- Belgium (Arrêté du 09/03/2014, 2014) :

| CAS | TWA : | STEL : | Ceiling : | Definition : | Criteria : |
|----------|------------------------------------|--------------------------------------|-----------|--------------|------------|
| 64-17-5 | 1000 ppm 1907 mg/m ³ | | | | |
| 123-86-4 | 150 ppm 723 mg/m ³ | 200 ppm 964 mg/m ³ | | | |
| 124-38-9 | 5000 ppm 9131 mg/m ³ | 30000 ppm 54784 mg/m ³ | | A | |

- France (INRS - ED984 / 2019-1487) :

| CAS | VME-ppm : | VME-mg/m ³ : | VLE-ppm : | VLE-mg/m ³ : | Notes : | TMP No : |
|----------|-----------|----------------------------|-----------|-------------------------|---------|----------|
| 64-17-5 | 1000 | 1900 | 5000 | 9500 | - | 84 |
| 123-86-4 | 150 | 710 | 200 | 940 | - | 84 |
| 124-38-9 | 5000 | 9000 | - | - | - | - |

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- Switzerland (SUVAPRO 2017) :

| CAS | VME | VLE | Valeur plafond | Notations |
|------------|------------------------------------|------------------------------------|----------------|-----------|
| 64-17-5 | 500 ppm 960 mg/m ³ | 1000 ppm 1920 mg/m ³ | | SSC |
| 64742-48-9 | 50 ppm 300 mg/m ³ | 100 ppm 600 mg/m ³ | | |
| 123-86-4 | 100 ppm 480 mg/m ³ | 200 ppm 960 mg/m ³ | | SSC |
| 124-38-9 | 5000 ppm 9000 mg/m ³ | | | |

- UK / WEL (Workplace exposure limits, EH40/2005, 2011) :

| CAS | TWA : | STEL : | Ceiling : | Definition : | Criteria : |
|----------|------------------------------------|--------------------------------------|-----------|--------------|------------|
| 64-17-5 | 1000 ppm 1920 mg/m ³ | - ppm - mg/m ³ | | | |
| 123-86-4 | 150 ppm 724 mg/m ³ | 200 ppm 966 mg/m ³ | | | |
| 124-38-9 | 5000 ppm 9150 mg/m ³ | 15000 ppm 27400 mg/m ³ | | | |

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

N-BUTYL ACETATE (CAS: 123-86-4)

Final use:

Exposure method:
Potential health effects:
DNEL :

Workers.

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

Exposure method:
Potential health effects:
DNEL :

Dermal contact.
Short term systemic effects.
11 mg/kg body weight/day

Exposure method:
Potential health effects:
DNEL :

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

Exposure method:
Potential health effects:
DNEL :

Inhalation.
Short term systemic effects.
600 mg of substance/m³

Exposure method:
Potential health effects:
DNEL :

Inhalation.
Long term local effects.
300 mg of substance/m³

Exposure method:
Potential health effects:
DNEL :

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

Final use:

Exposure method:
Potential health effects:
DNEL :

Consumers.

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

Exposure method:
Potential health effects:
DNEL :

Ingestion.
Short term systemic effects.
2 mg/kg body weight/day

Exposure method:
Potential health effects:
DNEL :

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

Exposure method:

Dermal contact.

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Potential health effects:
DNEL : Short term systemic effects.
6 mg/kg body weight/day

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

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

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

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

TERPINOLENE MULTICONSTITUENT

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

Exposure method:
Potential health effects:
DNEL : Dermal contact.
Long term local effects.
133.3 µg of substance/cm2

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

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

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

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

3-BUTOXYPROPAN-2-OL (CAS: 5131-66-8)

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

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

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| | |
|---------------------------|-----------------------------|
| Final use: | Consumers. |
| Exposure method: | Ingestion. |
| Potential health effects: | Long term systemic effects. |
| DNEL : | 12.5 mg/kg body weight/day |
| Exposure method: | Dermal contact. |
| Potential health effects: | Long term systemic effects. |
| DNEL : | 22 mg/kg body weight/day |
| Exposure method: | Inhalation. |
| Potential health effects: | Long term systemic effects. |
| DNEL : | 43 mg of substance/m3 |

HYDROCARBONS, C9-C11, N-ALKANES, ISOALKANES, CYCLICS, <2% AROMATICS (CAS: 64742-48-9)

| | |
|---------------------------|-----------------------------|
| Final use: | Workers. |
| Exposure method: | Dermal contact. |
| Potential health effects: | Long term systemic effects. |
| DNEL : | 208 mg/kg body weight/day |
| Exposure method: | Inhalation. |
| Potential health effects: | Long term systemic effects. |
| DNEL : | 871 mg of substance/m3 |

| | |
|---------------------------|-----------------------------|
| Final use: | Consumers. |
| Exposure method: | Ingestion. |
| Potential health effects: | Long term systemic effects. |
| DNEL : | 125 mg/kg body weight/day |
| Exposure method: | Dermal contact. |
| Potential health effects: | Long term systemic effects. |
| DNEL : | 125 mg/kg body weight/day |
| Exposure method: | Inhalation. |
| Potential health effects: | Long term systemic effects. |
| DNEL : | 185 mg of substance/m3 |

HYDROCARBONS, C7, N-ALKANES, ISOALKANES, CYCLICS (CAS: 64742-49-0)

| | |
|---------------------------|-----------------------------|
| Final use: | Workers. |
| Exposure method: | Dermal contact. |
| Potential health effects: | Long term systemic effects. |
| DNEL : | 300 mg/kg body weight/day |
| Exposure method: | Inhalation. |
| Potential health effects: | Long term systemic effects. |
| DNEL : | 2085 mg of substance/m3 |

| | |
|---------------------------|-----------------------------|
| Final use: | Consumers. |
| Exposure method: | Ingestion. |
| Potential health effects: | Long term systemic effects. |
| DNEL : | 149 mg/kg body weight/day |
| Exposure method: | Dermal contact. |
| Potential health effects: | Long term systemic effects. |
| DNEL : | 149 mg/kg body weight/day |
| Exposure method: | Inhalation. |
| Potential health effects: | Long term systemic effects. |

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DNEL : 447 mg of substance/m3

ETHANOL (CAS: 64-17-5)

Final use:

Exposure method:
Potential health effects:
DNEL :

Workers.

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

Exposure method:
Potential health effects:
DNEL :

Inhalation.
Long term systemic effects.
950 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

Predicted no effect concentration (PNEC):

N-BUTYL ACETATE (CAS: 123-86-4)

Environmental compartment:
PNEC : Soil.
0.0903 mg/kg

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

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

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

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

Environmental compartment:
PNEC : Marine sediment.
0.0981 mg/kg

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

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Environmental compartment:
PNEC : Soil.
113 µg/kg

Environmental compartment:
PNEC : Fresh water.
5.2 µg/l

Environmental compartment:
PNEC : Sea water.
0.52 µg/l

Environmental compartment:
Intermittent waste water.

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| PNEC : | 52 µg/l |
| Environmental compartment: PNEC : | Fresh water sediment. 0.581 mg/kg |
| Environmental compartment: PNEC : | Marine sediment. 58.1 µg/kg |
| Environmental compartment: PNEC : | Waste water treatment plant. 3 mg/l |
| 3-BUTOXYPROPAN-2-OL (CAS: 5131-66-8) | |
| Environmental compartment: PNEC : | Soil. 0.16 mg/kg |
| Environmental compartment: PNEC : | Fresh water. 0.525 mg/l |
| Environmental compartment: PNEC : | Sea water. 0.0525 mg/l |
| Environmental compartment: PNEC : | Intermittent waste water. 5.25 mg/l |
| Environmental compartment: PNEC : | Fresh water sediment. 2.36 mg/kg |
| Environmental compartment: PNEC : | Marine sediment. 0.236 mg/kg |
| Environmental compartment: PNEC : | Waste water treatment plant. 10 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 |
| Environmental compartment: PNEC : | Marine sediment. 2.9 mg/kg |
| Environmental compartment: PNEC : | Waste water treatment plant. 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.

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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 EN166.

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 EN374.

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))

Recommended properties :

- Impervious gloves in accordance with standard EN ISO 374-2

- 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 to prevent skin contact.

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

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.

- Respiratory protection

Avoid breathing vapours.

If the ventilation is insufficient, wear appropriate breathing apparatus.

When workers are confronted with concentrations that are above occupational exposure limits, they must wear a suitable, approved, respiratory protection device.

Type of FFP mask :

Wear a disposable half-mask aerosol filter in accordance with standard EN149.

Category :

- FFP2

- FFP3

Anti-gas and vapour filter(s) (Combined filters) in accordance with standard EN14387 :

- A1 (Brown)

- A2 (Brown)

Particle filter according to standard EN143 :

- P2 (White)

- P3 (White)

SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

General information :

Physical state : Fluid liquid.
Spray.

Important health, safety and environmental information

pH : Not relevant.

Boiling point/boiling range : Not relevant.

Flash point interval : Not relevant.

Vapour pressure (50°C) : Not relevant.

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| | |
|---|--------------------|
| Density : | 0.79 |
| Water solubility : | Partially soluble. |
| Melting point/melting range : | Not specified. |
| Self-ignition temperature : | Not relevant. |
| Decomposition point/decomposition range : | Not specified. |
| % VOC : | 100 |
| Chemical combustion heat : | Not specified. |
| Inflammation time : | Not specified. |
| Deflagration density : | Not specified. |
| Inflammation distance : | Not specified. |
| Flame height : | Not specified. |
| Flame duration : | Not specified. |

9.2. Other information

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.

Avoid :

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

10.5. Incompatible materials

Keep away from :

- oxidising agents
- acids
- strong bases

10.6. Hazardous decomposition products

The thermal decomposition may release/form :

- carbon monoxide (CO)
 - carbon dioxide (CO₂)
 - various hydrocarbons
 - aldehyde
-

SECTION 11 : TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

May cause irreversible damage to the skin; namely inflammation of the skin or the formation of erythema and eschar or oedema following exposure up to four hours.

May have reversible effects on the eyes, such as eye irritation which is totally reversible by the end of observation at 21 days.

Splashes in the eyes may cause irritation and reversible damage

Narcotic effects may occur, such as drowsiness, narcosis, decreased alertness, loss of reflexes, lack of coordination or dizziness.

Effects may also occur in the form of violent headaches or nausea, judgement disorder, giddiness, irritability, fatigue or memory disturbance.

May cause an allergic reaction by skin contact.

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11.1.1. Substances

Acute toxicity :

N-BUTYL ACETATE (CAS: 123-86-4)

Oral route : LD50 = 10760 mg/kg
Species : Rat
OECD Guideline 423 (Acute Oral toxicityAcute Toxic Class Method)

Dermal route : LD50 > 14112 mg/kg
Species : Rabbit
OECD Guideline 402 (Acute Dermal Toxicity)

Inhalation route (n/a) : LC50 = 23.4 mg/l
Species : Rat
OECD Guideline 403 (Acute Inhalation Toxicity)

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Oral route : LD50 > 2000 mg/kg
Species : Rat
OECD Guideline 423 (Acute Oral toxicityAcute Toxic Class Method)

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

HYDROCARBONS, C9-C11, N-ALKANES, ISOALKANES, CYCLICS, <2% AROMATICS (CAS: 64742-48-9)

Oral route : LD50 > 5000 mg/kg
Species : Rat
OECD Guideline 401 (Acute Oral Toxicity)

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

Inhalation route (n/a) : LC50 > 5000 mg/m3
Species : Rat
OECD Guideline 403 (Acute Inhalation Toxicity)

HYDROCARBONS, C7, N-ALKANES, ISOALKANES, CYCLICS (CAS: 64742-49-0)

Oral route : LD50 > 5840 mg/kg
Species : Rat
OECD Guideline 401 (Acute Oral Toxicity)

Dermal route : LD50 > 2920 mg/kg
Species : Rat
OECD Guideline 402 (Acute Dermal Toxicity)

Inhalation route (n/a) : LC50 > 23.3 mg/l
Species : Rat
OECD Guideline 403 (Acute Inhalation Toxicity)

ETHANOL (CAS: 64-17-5)

Oral route : LD50 > 6200 mg/kg
Species : Rat
OECD Guideline 401 (Acute Oral Toxicity)

Inhalation route (n/a) : LC50 > 50 mg/m3
Species : Rat

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OECD Guideline 403 (Acute Inhalation Toxicity)

Skin corrosion/skin irritation :

N-BUTYL ACETATE (CAS: 123-86-4)

Species : Rabbit

Irritation :

No observed effect.
Average score < 1.5
Species : Rabbit
OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

Serious damage to eyes/eye irritation :

N-BUTYL ACETATE (CAS: 123-86-4)

Corneal haze :

Average score < 1
Species : Rabbit
OECD Guideline 405 (Acute Eye Irritation / Corrosion)

Respiratory or skin sensitisation :

N-BUTYL ACETATE (CAS: 123-86-4)

Guinea Pig Maximisation Test (GMPT) :

Non-sensitiser.
Species : Others

Germ cell mutagenicity :

N-BUTYL ACETATE (CAS: 123-86-4)

Ames test (in vitro) :

Negative.

11.1.2. Mixture

No toxicological data available for the mixture.

SECTION 12 : ECOLOGICAL INFORMATION

Harmful to aquatic life with long lasting effects.

The product must not be allowed to run into drains or waterways.

12.1. Toxicity

12.1.1. Substances

N-BUTYL ACETATE (CAS: 123-86-4)

Fish toxicity :

LC50 = 18 mg/l
Species : Pimephales promelas
Duration of exposure : 96 h
OECD Guideline 203 (Fish, Acute Toxicity Test)

Crustacean toxicity :

EC50 = 44 mg/l
Species : Daphnia magna
Duration of exposure : 48 h

NOEC = 23 mg/l
Species : Daphnia magna
Duration of exposure : 21 days
OECD Guideline 211 (Daphnia magna Reproduction Test)

Algae toxicity :

ECr50 = 647.7 mg/l
Species : Desmodesmus subspicatus
Duration of exposure : 72 h
OECD Guideline 201 (Alga, Growth Inhibition Test)

NOEC = 200 mg/l
Species : Desmodesmus subspicatus

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OECD Guideline 201 (Alga, Growth Inhibition Test)

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Fish toxicity :

LC50 = 6.104 mg/l
Species : Danio rerio
Duration of exposure : 96 h
OECD Guideline 203 (Fish, Acute Toxicity Test)

Crustacean toxicity :

EC50 = 5.184 mg/l
Species : Daphnia magna
Duration of exposure : 48 h
OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)

Algae toxicity :

ECr50 = 5.4 mg/l
Species : Pseudokirchnerella subcapitata
Duration of exposure : 72 h
OECD Guideline 201 (Alga, Growth Inhibition Test)

ETHANOL (CAS: 64-17-5)

Fish toxicity :

LC50 = 13000 mg/l
Species : Salmo gairdneri
Duration of exposure : 96 h

Crustacean toxicity :

EC50 = 12340 mg/l
Species : Daphnia magna
Duration of exposure : 48 h
Other guideline

Algae toxicity :

ECr50 = 275 mg/l
Species : Chlorella vulgaris
Duration of exposure : 72 h

EC10 mg/l

HYDROCARBONS, C9-C11, N-ALKANES, ISOALKANES, CYCLICS, <2% AROMATICS (CAS: 64742-48-9)

Fish toxicity :

LC50 > 1000 mg/l
Species : Oncorhynchus mykiss
Duration of exposure : 96 h
OECD Guideline 203 (Fish, Acute Toxicity Test)

Crustacean toxicity :

EC50 > 1000 mg/l
Species : Daphnia magna
Duration of exposure : 48 h
OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)

Algae toxicity :

ECr50 > 1000 mg/l
Species : Pseudokirchnerella subcapitata
Duration of exposure : 72 h
OECD Guideline 201 (Alga, Growth Inhibition Test)

12.1.2. Mixtures

No aquatic toxicity data available for the mixture.

12.2. Persistence and degradability

12.2.1. Substances

N-BUTYL ACETATE (CAS: 123-86-4)

Biodegradability :

Rapidly degradable.

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Biodegradability : Rapidly degradable.

HYDROCARBONS, C9-C11, N-ALKANES, ISOALKANES, CYCLICS, <2% AROMATICS (CAS: 64742-48-9)
Biodegradability : Rapidly degradable.

HYDROCARBONS, C7, N-ALKANES, ISOALKANES, CYCLICS (CAS: 64742-49-0)
Biodegradability : Rapidly degradable.

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

12.3. Bioaccumulative potential

12.3.1. Substances

N-BUTYL ACETATE (CAS: 123-86-4)
Octanol/water partition coefficient : log K_{ow} = 2.3
OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC Method)

Bioaccumulation : BCF = 15.3

ETHANOL (CAS: 64-17-5)
Octanol/water partition coefficient : log K_{ow} = -0.35

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

No data available.

12.6. 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, preferably 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 2019 - IMDG 2018 - ICAO/IATA 2020).

14.1. UN number

1950

14.2. UN proper shipping name

UN1950=AEROSOLS, flammable

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14.3. Transport hazard class(es)

- Classification :



2.1

14.4. Packing group

-

14.5. Environmental hazards

-

14.6. Special precautions for user

| ADR/RID | Class | Code | Pack gr. | Label | Ident. | LQ | Provis. | EQ | Cat. | Tunnel |
|---------|-------|------|----------|-------|--------|-----|--------------------|----|------|--------|
| | 2 | 5F | - | 2.1 | - | 1 L | 190 327 344 625 | E0 | 2 | D |

| IMDG | Class | 2°Label | Pack gr. | LQ | EMS | Provis. | EQ | Stowage Handling | Segregation |
|------|-------|----------|----------|-----------|----------|----------------------------------|----|------------------|-------------|
| | 2 | See SP63 | - | See SP277 | F-D, S-U | 63 190 277 327 344 381 959 | E0 | - SW1 SW22 | SG69 |

| IATA | Class | 2°Label | Pack gr. | Passager | Passager | Cargo | Cargo | note | EQ |
|------|-------|---------|----------|----------|----------|-------|--------|-------------------|----|
| | 2.1 | - | - | 203 | 75 kg | 203 | 150 kg | A145 A167 A802 | E0 |
| | 2.1 | - | - | Y203 | 30 kg G | - | - | A145 A167 A802 | E0 |

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. Transport in bulk according to Annex II of Marpol and the IBC Code

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:

- Directive 75/324/CEE modified by directive 2013/10/UE
- EU Regulation No. 1272/2008 amended by EU Regulation No. 2020/217 (ATP 14)

- Container information:

No data available.

- Particular provisions :

No data available.

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.
- H226 Flammable liquid and vapour.
- H281 Contains refrigerated gas; may cause cryogenic burns or injury.

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| | |
|--------|---|
| H304 | May be fatal if swallowed and enters airways. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H319 | Causes serious eye irritation. |
| H336 | May cause drowsiness or dizziness. |
| H411 | Toxic to aquatic life with long lasting effects. |
| EUH066 | Repeated exposure may cause skin dryness or cracking. |

Abbreviations :

DNEL : Derived No-Effect Level
PNEC : Predicted No-Effect Concentration
UFI : Unique Formula Identifier
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.
GHS02 : Flame
GHS07 : Exclamation mark
PBT: Persistent, bioaccumulable and toxic.
vPvB : Very persistent, very bioaccumulable.
SVHC : Substances of very high concern.