

Safety Data Sheet

according to UK REACH Regulation

DINITROL MS 40 Spray

Revision date: 22.11.2024

Product code: 30040

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

1.1. Product identifier

DINITROL MS 40 Spray

UFI: S26P-H25S-M00N-XDQ2

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

Use of the substance/mixture

Schmiermittel und Schmiermittelzusatz
Rostlöser

1.3. Details of the supplier of the safety data sheet

Manufacturer

Company name: DINOL GmbH
Street: Pyrmonter Strasse 76
Place: D-32676 Luegde
Telephone: + 49 (0) 5281 982980
E-mail: msds@dinol.com
Contact person: Labor
Responsible Department: msds@dinol.com

Telefax: + 49 (0) 5281 9829860

Supplier

Company name: Leading Solvent Supplies Limited
Street: Marston Business Park, Rudgate
Place: GB Tockwith, York YO26 7QF
E-mail: enquiries@leading-solvents.co.uk
Internet: www.leading-solvents.co.uk

1.4. Emergency telephone number:

Giftnotruf Berlin: +49 30 30686 700 (Beratung in Deutsch und Englisch)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GB CLP Regulation

Aerosol 1; H222-H229
STOT SE 3; H336

Full text of hazard statements: see SECTION 16.

2.2. Label elements

GB CLP Regulation

Hazard components for labelling

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics

Signal word: Danger

Pictograms:



Hazard statements

H222 Extremely flammable aerosol.
H229 Pressurised container: May burst if heated.
H336 May cause drowsiness or dizziness.

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Precautionary statements

- 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.
- P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
- P403+P233 Store in a well-ventilated place. Keep container tightly closed.
- P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

Special labelling of certain mixtures

Restricted to professional users.

Labelling of packages where the contents do not exceed 125 ml

Signal word: Danger

Pictograms:



Hazard statements

H222-H229

Precautionary statements

P210-P211-P251-P410+P412

2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Relevant ingredients

| CAS No | Chemical name | | | Quantity |
|------------|---|--------------|------------------|---------------|
| | EC No | Index No | REACH No | |
| | Classification (GB CLP Regulation) | | | |
| | Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics | | | 50 - < 75 % |
| | 919-857-5 | | 01-2119463258-33 | |
| | Flam. Liq. 3, STOT SE 3; H226 H336 EUH066 | | | |
| 64742-55-8 | Baseoil - unspecified, Distillates (petroleum), hydrotreated light paraffinic | | | 12,5 - < 20 % |
| | 265-158-7 | 649-468-00-3 | 01-2119487077-29 | |
| | Asp. Tox. 1; H304 | | | |
| 124-38-9 | Carbon dioxide | | | < 2,5 % |
| | 204-696-9 | | | |
| | Compressed gas; H280 | | | |
| | calcium bis (di C8-C10, branched, C9 rich, alkylnaphthalenesulphonate) | | | < 2,5 % |
| | 939-717-7 | | 01-2119980985-16 | |
| | Skin Irrit. 2, Eye Irrit. 2; H315 H319 | | | |

Full text of H and EUH statements: see section 16.

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Specific Conc. Limits, M-factors and ATE

| CAS No | EC No | Chemical name | Quantity |
|------------|-----------|--|---------------|
| | | Specific Conc. Limits, M-factors and ATE | |
| | 919-857-5 | Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics | 50 - < 75 % |
| | | inhalation: LC50 = 5000 mg/l (vapours); dermal: LD50 = >3000 mg/kg; oral: LD50 = >5000 mg/kg | |
| 64742-55-8 | 265-158-7 | Baseoil - unspecified, Distillates (petroleum), hydrotreated light paraffinic | 12,5 - < 20 % |
| | | inhalation: LC50 = 5,53 mg/l (vapours); dermal: LD50 = >3000 mg/kg; oral: LD50 = >5000 mg/kg | |
| | 939-717-7 | calcium bis (di C8-C10, branched, C9 rich, alkylnaphthalenesulphonate) | < 2,5 % |
| | | inhalation: LC50 = > 18 mg/l (vapours); dermal: LD50 = > 20000 mg/kg; oral: LD50 = >5000 mg/kg | |

Further Information

Full text of H- and EUH-statements: see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

In all cases of doubt, or when symptoms persist, seek medical advice.

Never give anything by mouth to an unconscious person or a person with cramps.

If unconscious but breathing normally, place in recovery position and seek medical advice.

After inhalation

Provide fresh air. In case of troubles or persistent symptoms, consult an ophthalmologist.

If unconscious but breathing normally, place in recovery position and seek medical advice.

After contact with skin

Wash with plenty of water. Take off contaminated clothing and wash it before reuse.

If skin irritation occurs: Get medical advice/attention.

After contact with eyes

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

After ingestion

Rinse mouth immediately and drink plenty of water. Call a physician immediately.

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

No information available.

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

No information available.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

alcohol resistant foam, Carbon dioxide (CO2), Extinguishing powder, Water fog.

Unsuitable extinguishing media

High power water jet.

5.2. Special hazards arising from the substance or mixture

Flammable. Vapours can form explosive mixtures with air.

5.3. Advice for firefighters

Use water spray jet to protect personnel and to cool endangered containers.

Additional information

Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately.

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Do not allow entering drains or surface water.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures****General advice**

- Provide adequate ventilation.
- Wear personal protection equipment.
- Avoid contact with skin, eyes and clothes.
- Avoid breathing dust/fume/gas/mist/vapours/spray.

For emergency responders

For further specification, refer to section 8 of the SDS.

6.2. Environmental precautions

Do not allow to enter into surface water or drains. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

6.3. Methods and material for containment and cleaning up**For containment**

- Prevent spread over a wide area (e.g. by containment or oil barriers).
- Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).
- Treat the recovered material as prescribed in the section on waste disposal.

For cleaning up

- Provide adequate ventilation.
- Clear contaminated areas thoroughly.
- Do not rinse down with water.

Other information

No information available.

6.4. Reference to other sections

- Safe handling: see section 7
- Personal protection equipment: see section 8
- Disposal: see section 13

SECTION 7: Handling and storage**7.1. Precautions for safe handling****Advice on safe handling**

- Handle and open container with care.
- If handled uncovered, arrangements with local exhaust ventilation have to be used.
- If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means.

Advice on protection against fire and explosion

- Take precautionary measures against static discharges.
- Do not spray on naked flames or any incandescent material.
- Keep away from sources of ignition - No smoking.
- Heating causes rise in pressure with risk of bursting.

Advice on general occupational hygiene

- Keep away from food, drink and animal feedingstuffs.
- When using do not eat or drink.
- Wash hands before breaks and after work.
- Avoid contact with skin and eyes.
- Remove contaminated, saturated clothing immediately.

7.2. Conditions for safe storage, including any incompatibilities

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Requirements for storage rooms and vessels

Keep container tightly closed in a cool, well-ventilated place.
Do not keep the container sealed. Keep container dry.
Keep away from heat. Protect from direct sunlight.

Hints on joint storage

No information available.

Further information on storage conditions

No information available.

7.3. Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

| CAS No | Substance | ppm | mg/m ³ | fibres/ml | Category | Origin |
|----------|----------------|-------|-------------------|-----------|---------------|--------|
| 124-38-9 | Carbon dioxide | 5000 | 9150 | | TWA (8 h) | WEL |
| | | 15000 | 27400 | | STEL (15 min) | WEL |

DNEL/DMEL values

| CAS No | Substance | Exposure route | Effect | Value |
|--------------------------|---|----------------|------------------------|-------|
| DNEL type | Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics | | | |
| Worker DNEL, long-term | dermal | systemic | 300 mg/kg bw/day | |
| Worker DNEL, long-term | inhalation | systemic | 1500 mg/m ³ | |
| Consumer DNEL, long-term | inhalation | systemic | 900 mg/m ³ | |
| Consumer DNEL, long-term | dermal | systemic | 300 mg/kg bw/day | |
| Consumer DNEL, long-term | oral | systemic | 300 mg/kg bw/day | |

8.2. Exposure controls



Appropriate engineering controls

Provide adequate ventilation.
If handled uncovered, arrangements with local exhaust ventilation should be used if possible.
If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

Individual protection measures, such as personal protective equipment

Eye/face protection

Eye glasses with side protection (DIN EN 166)

Hand protection

Tested protective gloves must be worn (EN ISO 374):
FKM (fluoro rubber) penetration time (maximum wearing period): 480 min.
NBR (Nitrile rubber) penetration time (maximum wearing period): 480 min.
For special purposes, it is recommended to check the resistance to chemicals of the protective gloves

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mentioned above together with the supplier of these gloves.
Protective gloves have to be replaced at the first sign of deterioration.
Protect skin by using skin protective cream.

Skin protection

Wear anti-static footwear and clothing

Respiratory protection

Work in well-ventilated zones or use proper respiratory protection.
gas filtering equipment (EN 141). Filter material/medium : A2/P3

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | | |
|---|--|-----------------------|
| Physical state: | Aerosol | |
| Colour: | light brown | |
| Odour: | characteristic | |
| Odour threshold: | not determined | |
| Melting point/freezing point: | | not determined |
| Boiling point or initial boiling point and boiling range: | | not determined |
| Flammability: | | not applicable |
| Lower explosion limits: | | 0,6 vol. % |
| Upper explosion limits: | | 7,0 vol. % |
| Flash point: | | not applicable |
| Auto-ignition temperature: | | 240 °C |
| Decomposition temperature: | | not determined |
| pH-Value: | | not determined |
| Viscosity / kinematic: | | not determined |
| Water solubility: | The study does not need to be conducted because the substance is known to be insoluble in water. | |
| Solubility in other solvents | not determined | |
| Partition coefficient n-octanol/water: | | not determined |
| Vapour pressure: | | 5500 hPa |
| (at 20 °C) | | |
| Density (at 20 °C): | | 0,8 g/cm ³ |
| Relative vapour density: | | not determined |
| Particle characteristics: | | not applicable |

9.2. Other information

Information with regard to physical hazard classes

| | |
|---------------------------|----------------|
| Explosive properties | |
| not determined | |
| Self-ignition temperature | |
| Solid: | not applicable |
| Gas: | not applicable |
| Oxidizing properties | |
| Not oxidising. | |

Other safety characteristics

| | |
|-------------------|----------------|
| Evaporation rate: | not determined |
| Solvent content: | 73,0 % |
| Solid content: | 6,0 % |
| Softening point: | not determined |

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Viscosity / dynamic:

not determined

Further Information

No information available.

SECTION 10: Stability and reactivity

10.1. Reactivity

No hazardous reaction when handled and stored according to provisions.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

No known hazardous reactions.

10.4. Conditions to avoid

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Vapours can form explosive mixtures with air.

10.5. Incompatible materials

No information available.

10.6. Hazardous decomposition products

No known hazardous decomposition products.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in GB CLP Regulation

Acute toxicity

Based on available data, the classification criteria are not met.

ATEmix calculated

ATE (oral) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation gas) > 20000 ppm

| CAS No | Chemical name | | | | |
|------------|---|--------------------|---------|--------|--------|
| | Exposure route | Dose | Species | Source | Method |
| | Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics | | | | |
| | oral | LD50 >5000 mg/kg | Rat | | |
| | dermal | LD50 >3000 mg/kg | Rat | | |
| | inhalation (4 h) vapour | LC50 5000 mg/l | Rat | | |
| 64742-55-8 | Baseoil - unspecified, Distillates (petroleum), hydrotreated light paraffinic | | | | |
| | oral | LD50 >5000 mg/kg | Rat | | |
| | dermal | LD50 >3000 mg/kg | Rabbit | | |
| | inhalation (4 h) vapour | LC50 5,53 mg/l | Rat | | |
| | calcium bis (di C8-C10, branched, C9 rich, alkylnaphthalenesulphonate) | | | | |
| | oral | LD50 >5000 mg/kg | Rat | | |
| | dermal | LD50 > 20000 mg/kg | Rabbit | | |
| | inhalation (4 h) vapour | LC50 > 18 mg/l | Rat | | |

Irritation and corrosivity

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Skin corrosion/irritation: Based on available data, the classification criteria are not met.

Serious eye damage/eye irritation: Based on available data, the classification criteria are not met.

Sensitising effects

Based on available data, the classification criteria are not met.

Carcinogenic/mutagenic/toxic effects for reproduction

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

Carcinogenicity: Based on available data, the classification criteria are not met.

Reproductive toxicity: Based on available data, the classification criteria are not met.

STOT-single exposure

May cause drowsiness or dizziness. (Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics)

STOT-repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

Information on likely routes of exposure

No information available.

Specific effects in experiment on an animal

No information available.

Additional information on tests

No information available.

Practical experience

No information available.

11.2. Information on other hazards

Endocrine disrupting properties

Endocrine disrupting potential No information available.

Further information

There are no data available on the preparation/mixture itself.

SECTION 12: Ecological information

12.1. Toxicity

Based on available data, the classification criteria are not met.

| CAS No | Chemical name | | | | | |
|------------|---|--------------|-----------|---------|---|--------|
| | Aquatic toxicity | Dose | [h] [d] | Species | Source | Method |
| 64742-55-8 | Baseoil - unspecified, Distillates (petroleum), hydrotreated light paraffinic | | | | | |
| | Acute fish toxicity | LC50 mg/l | >100 | 96 h | Pimephales promelas (fathead minnow) | |
| | Acute crustacea toxicity | EC50 mg/l | >10000 | 48 h | Daphnia magna (Big water flea) | |
| | Algae toxicity | NOEC mg/l | >100 | 3 d | Pseudokirchneriella subcapitata | |
| | Crustacea toxicity | NOEC | >10 mg/l | 21 d | Daphnia magna (Big water flea) | |
| | calcium bis (di C8-C10, branched, C9 rich, alkyl)naphthalenesulphonate | | | | | |
| | Acute fish toxicity | LC50 mg/l | > 0,28 | 96 h | fish | |
| | Acute crustacea toxicity | EC50 mg/l | > 0,27 | 48 h | Daphnia magna (Big water flea) | |
| | Algae toxicity | NOEC mg/l | > 0,27 | 3 d | | |

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12.2. Persistence and degradability

There are no data available on the mixture itself.

| CAS No | Chemical name | | | |
|--------|---|-------|---|--------|
| | Method | Value | d | Source |
| | Evaluation | | | |
| | Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics | | | |
| | | 80% | | |
| | Readily biodegradable (according to OECD criteria). | | | |

12.3. Bioaccumulative potential

There are no data available on the mixture itself.

Partition coefficient n-octanol/water

| CAS No | Chemical name | Log Pow |
|------------|---|---------|
| 64742-55-8 | Baseoil - unspecified, Distillates (petroleum), hydrotreated light paraffinic | >3,5 |
| 124-38-9 | Carbon dioxide | 0,83 |

12.4. Mobility in soil

There are no data available on the mixture itself.

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH.

12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

12.7. Other adverse effects

No information available.

Further information

Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Dispose of waste according to applicable legislation. Do not mix with other wastes.

List of proposed waste codes/waste designations in accordance with EWC:

List of Wastes Code - residues/unused products

160504 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; gases in pressure containers (including halons) containing hazardous substances; hazardous waste

List of Wastes Code - contaminated packaging

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by hazardous substances; hazardous waste

Contaminated packaging

Remove according to the regulations.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number or ID number:

UN 1950

14.2. UN proper shipping name:

AEROSOLS

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14.3. Transport hazard class(es):

2

14.4. Packing group:

-

Hazard label:

2.1



Classification code:

5F

Special Provisions:

190 327 344 625

Limited quantity:

1 L

Excepted quantity:

E0

Transport category:

2

Tunnel restriction code:

D

Marine transport (IMDG)

14.1. UN number or ID number:

UN 1950

14.2. UN proper shipping name:

AEROSOLS

14.3. Transport hazard class(es):

2.1

14.4. Packing group:

-

Hazard label:

2.1



Marine pollutant:

no

Special Provisions:

63, 190, 277, 327, 344, 959

Limited quantity:

1000 mL

Excepted quantity:

E0

EmS:

F-D, S-U

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number or ID number:

UN 1950

14.2. UN proper shipping name:

AEROSOLS

14.3. Transport hazard class(es):

2.1

14.4. Packing group:

-

Hazard label:

2.1



Special Provisions:

A145 A167 A802

Limited quantity Passenger:

30 kg G

Passenger LQ:

Y203

Excepted quantity:

E0

IATA-packing instructions - Passenger:

203

IATA-max. quantity - Passenger:

75 kg

IATA-packing instructions - Cargo:

203

IATA-max. quantity - Cargo:

150 kg

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS:

No

14.6. Special precautions for user

No information available.

14.7. Maritime transport in bulk according to IMO instruments

not applicable

Other applicable information

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Stowage Code:

SW1 Protected from sources of heat.

SW22 For AEROSOLS with a maximum capacity of 1 litre: Category A. For AEROSOLS with a capacity above 1 litre: Category B. For WASTE AEROSOLS: Category C, Clear of living quarters.

Segregation Code:

SG69 For AEROSOLS with a maximum capacity of 1 litre: Segregation as for class 9. Stow "separated from" class 1 except for division 1.4. For AEROSOLS with a capacity above 1 litre: Segregation as for the appropriate subdivision of class 2. For WASTE AEROSOLS: Segregation as for the appropriate subdivision of class 2.

SECTION 15: Regulatory information

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

EU regulatory information

Restrictions on use (REACH, annex XVII):

Entry 40, Entry 75

| | |
|------------------------------------|------------------------|
| Directive 2004/42/EC on VOC in | 73,00 % |
| paints and varnishes: | 556,3 g/l |
| Information according to Directive | P3b FLAMMABLE AEROSOLS |
| 2012/18/EU (SEVESO III): | |

Additional information

Observe in addition any national regulations!

Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work

National regulatory information

| | |
|--------------------------|---|
| Employment restrictions: | Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers. |
|--------------------------|---|

| | |
|-------------------------|-------------------------------|
| Water hazard class (D): | 3 - highly hazardous to water |
|-------------------------|-------------------------------|

Additional information

This mixture contains the following substances of very high concern (SVHC) which are included in the Candidate List according to Article 59 of REACH: none

15.2. Chemical safety assessment

For the following substances of this mixture a chemical safety assessment has been carried out:

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics

SECTION 16: Other information

Changes

This data sheet contains changes from the previous version in section(s): 2,7,9,11,12,15,16.

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Abbreviations and acronyms

Aerosol: Aerosols
Compressed gas
Flam. Liq: Flammable liquids
Asp. Tox: Aspiration hazard
Skin Irrit: Skin irritation
Eye Irrit: Eye irritation
STOT SE: Specific target organ toxicity - single exposure
ADR: Accord européen sur le transport des marchandises dangereuses par Route
(European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service
LC50: Lethal concentration, 50%
LD50: Lethal dose, 50%

Classification for mixtures and used evaluation method according to GB CLP Regulation

| Classification | Classification procedure |
|----------------------|-------------------------------|
| Aerosol 1; H222-H229 | On basis of test data |
| STOT SE 3; H336 | Bridging principle "Aerosols" |

Relevant H and EUH statements (number and full text)

H222 Extremely flammable aerosol.
H226 Flammable liquid and vapour.
H229 Pressurised container: May burst if heated.
H280 Contains gas under pressure; may explode if heated.
H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.
EUH066 Repeated exposure may cause skin dryness or cracking.

Further Information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

This safety data sheet complies with Regulation (EC) No 1907/2006, Article 31 as amended by Regulation (EU) 2020/878.

(The data for the relevant ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)