

DINITROL 8020 Spray Black

Revision: 19.01.2026

Product code: 32802

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

1.1. Product identifier

DINITROL 8020 Spray Black

UFI: T5F9-0XTS-G00W-JYNQ

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

Use of the substance/mixture

Paints and varnishes

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 | Telefax: + 49 (0) 5281 9829860 |
| E-mail: | msds@dinol.com | |
| Contact person: | Labor | |
| Internet: | www.dinol.com | |
| Responsible Department: | msds@dinol.com | |

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 |

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

1.4. Emergency telephone number:

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Aerosol 1; H222-H229
 Eye Irrit. 2; H319
 STOT SE 3; H336

Full text of hazard statements: see SECTION 16.

2.2. Label elements

Regulation (EC) No 1272/2008

Hazard components for labelling

acetone; propan-2-one; propanone
 n-butyl acetate
 2-methoxy-1-methylethyl acetate
 butan-1-ol; n-butanol

Signal word: Danger

Pictograms:



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Hazard statements

- H222 Extremely flammable aerosol.
- H229 Pressurised container: May burst if heated.
- H319 Causes serious eye irritation.
- H336 May cause drowsiness or dizziness.
- EUH066 Repeated exposure may cause skin dryness or cracking.

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.
- P280 Wear protective gloves and 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.
- P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

Special labelling

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

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Relevant ingredients

| CAS No | Chemical name | | | Quantity |
|------------|--|--------------|------------------|---------------|
| | EC No | Index No | REACH No | |
| | Classification (Regulation (EC) No 1272/2008) | | | |
| 67-64-1 | acetone; propan-2-one; propanone | | | 25 - < 50 % |
| | 200-662-2 | 606-001-00-8 | 01-2119471330-49 | |
| | Flam. Liq. 2, Eye Irrit. 2, STOT SE 3; H225 H319 H336 EUH066 | | | |
| 115-10-6 | dimethyl ether | | | 12,5 - < 20 % |
| | 204-065-8 | 603-019-00-8 | 01-2119472128-37 | |
| | Flam. Gas 1, Press. Gas (Liq.); H220 H280 | | | |
| 123-86-4 | n-butyl acetate | | | 10 - < 12,5 % |
| | 204-658-1 | 607-025-00-1 | 01-2119485493-29 | |
| | Flam. Liq. 3, STOT SE 3; H226 H336 EUH066 | | | |
| 74-98-6 | propane | | | 5 - < 10 % |
| | 200-827-9 | 601-003-00-5 | 01-2119486944-21 | |
| | Flam. Gas 1, Press. Gas (Liq.); H220 H280 | | | |
| 108-65-6 | 2-methoxy-1-methylethyl acetate | | | 5 - < 10 % |
| | 203-603-9 | 607-195-00-7 | 01-2119475791-29 | |
| | Flam. Liq. 3, STOT SE 3; H226 H336 | | | |
| 106-97-8 | butane | | | 5 - 10 % |
| | 203-448-7 | 601-004-00-0 | 01-2119474691-32 | |
| | Flam. Gas 1, Press. Gas (Liq.); H220 H280 | | | |
| 75-28-5 | isobutane | | | 5 - < 10 % |
| | 200-857-2 | 601-004-00-0 | 01-2119485395-27 | |
| | Flam. Gas 1, Press. Gas (Liq.); H220 H280 | | | |
| 13463-67-7 | titanium dioxide | | | < 2,5 % |
| | 236-675-5 | | 01-2119489379-17 | |
| | | | | |
| 71-36-3 | butan-1-ol; n-butanol | | | < 2,5 % |
| | 200-751-6 | 603-004-00-6 | 01-2119484630-38 | |
| | Flam. Liq. 3, Acute Tox. 4, Skin Irrit. 2, Eye Dam. 1, STOT SE 3, STOT SE 3; H226 H302 H315 H318 H335 H336 | | | |

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 | |
| 67-64-1 | 200-662-2 | acetone; propan-2-one; propanone inhalation: LC50 = 76 mg/l (vapours); dermal: LD50 = 7426-15800 mg/kg; oral: LD50 = 5800 mg/kg | 25 - < 50 % |
| 123-86-4 | 204-658-1 | n-butyl acetate inhalation: LC50 = > 21 mg/l (vapours); inhalation: LC50 = >21 mg/l (dusts or mists); dermal: LD50 = > 14112 mg/kg; oral: LD50 = 10760 mg/kg | 10 - < 12,5 % |
| 108-65-6 | 203-603-9 | 2-methoxy-1-methylethyl acetate inhalation: LC50 = 35,7 mg/l (vapours); oral: LD50 = 8500 mg/kg | 5 - < 10 % |
| 106-97-8 | 203-448-7 | butane inhalation: LC50 = 273000 ppm (gases) | 5 - 10 % |
| 13463-67-7 | 236-675-5 | titanium dioxide dermal: LD50 = > 2000 mg/kg; oral: LD50 = > 5000 mg/kg | < 2,5 % |
| 71-36-3 | 200-751-6 | butan-1-ol; n-butanol inhalation: LC50 = >17 mg/l (dusts or mists); dermal: LD50 = 3430 mg/kg; oral: LD50 = 2292 mg/kg | < 2,5 % |

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.

After inhalation

Remove casualty to fresh air and keep warm and at rest.

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

After contact with skin

If skin irritation occurs: Get medical advice/attention.

After contact with eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing. In case of eye irritation consult an ophthalmologist.

After ingestion

If swallowed, rinse mouth with water (only if the person is conscious).

Do NOT induce vomiting.

Call a physician immediately.

Put victim at rest, cover with a blanket and keep warm.

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

Nausea, Dizziness, Headache.

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

Hazardous decomposition products: Danger of serious damage to health by prolonged exposure.

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Do not inhale explosion and combustion gases. Use appropriate respiratory protection.

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.

Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General advice

Remove all sources of ignition. Provide adequate ventilation.

Avoid breathing dust/fume/gas/mist/vapours/spray.

Wear personal protection equipment.

Avoid contact with skin, eyes and clothes.

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

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.

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Avoid contact with skin and eyes.
 Remove contaminated, saturated clothing immediately.
 Do not breathe gas/vapour/aerosol.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

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

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 |
|------------|-----------------------------------|------|-------------------|-----------|---------------|--------|
| 108-65-6 | 1-Methoxypropyl acetate | 50 | 274 | | TWA (8 h) | WEL |
| | | 100 | 548 | | STEL (15 min) | WEL |
| 67-64-1 | Acetone | 500 | 1210 | | TWA (8 h) | WEL |
| | | 1500 | 3620 | | STEL (15 min) | WEL |
| 71-36-3 | Butan-1-ol | 50 | 154 | | STEL (15 min) | WEL |
| 106-97-8 | Butane | 600 | 1450 | | TWA (8 h) | WEL |
| | | 750 | 1810 | | STEL (15 min) | WEL |
| 123-86-4 | Butyl acetate | 150 | 724 | | TWA (8 h) | WEL |
| | | 200 | 966 | | STEL (15 min) | WEL |
| 115-10-6 | Dimethyl ether | 400 | 766 | | TWA (8 h) | WEL |
| | | 500 | 958 | | STEL (15 min) | WEL |
| 13463-67-7 | Titanium dioxide, total inhalable | - | 10 | | TWA (8 h) | WEL |

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DNEL/DMEL values

| CAS No | Substance | Exposure route | Effect | Value |
|--------------------------|----------------------------------|----------------|----------|------------------------|
| 67-64-1 | acetone; propan-2-one; propanone | | | |
| Worker DNEL, long-term | | inhalation | systemic | 1210 mg/m ³ |
| Worker DNEL, acute | | inhalation | local | 2420 mg/m ³ |
| Worker DNEL, long-term | | dermal | systemic | 186 mg/kg bw/day |
| Consumer DNEL, long-term | | inhalation | systemic | 200 mg/m ³ |
| Consumer DNEL, long-term | | dermal | systemic | 62 mg/kg bw/day |
| Consumer DNEL, long-term | | oral | systemic | 62 mg/kg bw/day |
| 123-86-4 | n-butyl acetate | | | |
| Worker DNEL, long-term | | inhalation | systemic | 48 mg/m ³ |
| Worker DNEL, acute | | inhalation | systemic | 600 mg/m ³ |
| Worker DNEL, long-term | | inhalation | local | 300 mg/m ³ |
| Worker DNEL, acute | | inhalation | local | 600 mg/m ³ |
| Consumer DNEL, long-term | | inhalation | systemic | 12 mg/m ³ |
| Consumer DNEL, acute | | inhalation | systemic | 300 mg/m ³ |
| Consumer DNEL, long-term | | inhalation | local | 35,7 mg/m ³ |
| Consumer DNEL, acute | | inhalation | local | 300 mg/m ³ |
| 108-65-6 | 2-methoxy-1-methylethyl acetate | | | |
| Worker DNEL, long-term | | inhalation | systemic | 275 mg/m ³ |
| Worker DNEL, acute | | inhalation | local | 550 mg/m ³ |
| Worker DNEL, long-term | | dermal | systemic | 796 mg/kg bw/day |
| Consumer DNEL, long-term | | inhalation | systemic | 33 mg/m ³ |
| Consumer DNEL, acute | | inhalation | local | 33 mg/m ³ |
| Consumer DNEL, long-term | | dermal | systemic | 320 mg/kg bw/day |
| Consumer DNEL, long-term | | oral | systemic | 36 mg/kg bw/day |
| 71-36-3 | butan-1-ol; n-butanol | | | |
| Worker DNEL, long-term | | inhalation | local | 310 mg/m ³ |
| Consumer DNEL, long-term | | oral | systemic | 3,125 mg/kg bw/day |
| Consumer DNEL, long-term | | inhalation | local | 55 mg/m ³ |

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PNEC values

| CAS No | Substance | Value |
|--|----------------------------------|--------------|
| Environmental compartment | | |
| 67-64-1 | acetone; propan-2-one; propanone | |
| Freshwater | | 10,6 mg/l |
| Marine water | | 1,06 mg/l |
| Freshwater sediment | | 30,4 mg/kg |
| Marine sediment | | 3,04 mg/kg |
| Micro-organisms in sewage treatment plants (STP) | | 100 mg/l |
| Soil | | 29,5 mg/kg |
| 123-86-4 | n-butyl acetate | |
| Freshwater | | 0,18 mg/l |
| Marine water | | 0,018 mg/l |
| Freshwater sediment | | 0,981 mg/kg |
| Marine sediment | | 0,0981 mg/kg |
| Micro-organisms in sewage treatment plants (STP) | | 35,6 mg/l |
| Soil | | 0,0903 mg/kg |
| 108-65-6 | 2-methoxy-1-methylethyl acetate | |
| Freshwater | | 0,635 mg/l |
| Marine water | | 0,0635 mg/l |
| Freshwater sediment | | 3,29 mg/kg |
| Marine sediment | | 0,329 mg/kg |
| Micro-organisms in sewage treatment plants (STP) | | 100 mg/l |
| Soil | | 0,290 mg/kg |
| 71-36-3 | butan-1-ol; n-butanol | |
| Freshwater | | 0,082 mg/l |
| Marine water | | 0,0082 mg/l |
| Freshwater sediment | | 0,178 mg/kg |
| Marine sediment | | 0,0178 mg/kg |
| Micro-organisms in sewage treatment plants (STP) | | 2476 mg/l |
| Soil | | 0,015 mg/kg |

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 (EN 166)

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Hand protection

Tested protective gloves must be worn (EN ISO 374):
 FKM (fluoro rubber), Breakthrough time:: > 480 min.
 PVA (Polyvinyl alcohol), Breakthrough time:: > 480 min.
 NBR (Nitrile rubber), Breakthrough time:: > 480 min.
 Butyl caoutchouc (butyl rubber), Breakthrough time:: > 480 min.
 Thickness of the glove material : > 0,12 mm
 For special purposes, it is recommended to check the resistance to chemicals of the protective gloves 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: | black |
| Odour: | characteristic |
| Odour threshold: | not determined |

| | Test method |
|---|--|
| Melting point/freezing point: | not determined |
| Boiling point or initial boiling point and boiling range: | not applicable |
| Flammability: | not applicable |
| Lower explosion limits: | 1,2 vol. % |
| Upper explosion limits: | 26,2 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: | 4000 hPa |
| (at 20 °C) | |
| Density (at 20 °C): | 0,8 g/cm ³ |
| Relative vapour density: | not determined |
| Particle characteristics: | not determined |

9.2. Other information

Information with regard to physical hazard classes

Explosive properties
 not determined
 Self-ignition temperature

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| | |
|----------------------|----------------|
| Solid: | not applicable |
| Gas: | not applicable |
| Oxidizing properties | |
| not determined | |

Other safety characteristics

| | |
|--------------------------|----------------|
| Evaporation rate: | not applicable |
| Solvent separation test: | not determined |
| Solvent content: | 89,3 % |
| Solid content: | 9,6 % |
| 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 heat. Ignition hazard.

10.5. Incompatible materials

No information available.

10.6. Hazardous decomposition products

Carbon monoxide

SECTION 11: Toxicological information

11.1. Information on hazard classes

Acute toxicity

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

ATEmix calculated

ATE (oral) > 5000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation gas) > 20000 ppm

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| CAS No | Chemical name | | | | |
|------------|----------------------------------|-----------------------|---------|--------|--------|
| | Exposure route | Dose | Species | Source | Method |
| 67-64-1 | acetone; propan-2-one; propanone | | | | |
| | oral | LD50 5800 mg/kg | Rat | RTECS | |
| | dermal | LD50 7426-15800 mg/kg | Rabbit | IUCLID | |
| | inhalation (4 h) vapour | LC50 76 mg/l | Rat | | |
| 123-86-4 | n-butyl acetate | | | | |
| | oral | LD50 10760 mg/kg | Rat | | |
| | dermal | LD50 > 14112 mg/kg | Rabbit | | |
| | inhalation vapour | LC50 > 21 mg/l | Rat | | |
| | inhalation (4 h) dust/mist | LC50 >21 mg/l | Rat | | |
| 108-65-6 | 2-methoxy-1-methylethyl acetate | | | | |
| | oral | LD50 8500 mg/kg | Rat | | |
| | inhalation (4 h) vapour | LC50 35,7 mg/l | Rat | | |
| 106-97-8 | butane | | | | |
| | inhalation (4 h) gas | LC50 273000 ppm | Rat | GESTIS | |
| 13463-67-7 | titanium dioxide | | | | |
| | oral | LD50 > 5000 mg/kg | Rat | | |
| | dermal | LD50 > 2000 mg/kg | Rabbit | | |
| 71-36-3 | butan-1-ol; n-butanol | | | | |
| | oral | LD50 2292 mg/kg | Rat | GESTIS | |
| | dermal | LD50 3430 mg/kg | Rabbit | GESTIS | |
| | inhalation (4 h) dust/mist | LC50 >17 mg/l | Rat | | |

Irritation and corrosivity

Serious eye damage/eye irritation: Causes serious eye irritation.

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

Repeated exposure may cause skin dryness or cracking.

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. (acetone; propan-2-one; propanone)

STOT-repeated exposure

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

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Aspiration hazard

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

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 |
| 67-64-1 | acetone; propan-2-one; propanone | | | | | |
| | Acute fish toxicity | LC50 mg/l | 5540 | 96 h | Onchorhynchus mykiss | |
| | Acute crustacea toxicity | EC50 mg/l | 8800 | 48 h | Daphnia Magna | |
| | Algae toxicity | NOEC mg/l | 4740 | 2 d | Selenastrum capricornutum | |
| 123-86-4 | n-butyl acetate | | | | | |
| | Acute fish toxicity | LC50 | 18 mg/l | 96 h | Pimephales promelas (fathead minnow) | |
| | Acute algae toxicity | ErC50 | 397 mg/l | 72 h | Selenastrum capricornutum | |
| | Acute crustacea toxicity | EC50 | 44 mg/l | 48 h | Daphnia magna (Big water flea) | |
| 71-36-3 | butan-1-ol; n-butanol | | | | | |
| | Acute fish toxicity | LC50 mg/l | 1740 | 96 h | Pimephales promelas (fathead minnow) | |
| | Acute algae toxicity | ErC50 mg/l | >500 | 72 h | Scenedesmus subspicatus | |
| | Acute crustacea toxicity | EC50 mg/l | 1980 | 48 h | | GESTIS |
| | Acute bacteria toxicity | EC50 mg/l () | 2250 | | Pseudomonas putida | 16 h |

12.2. Persistence and degradability

There are no data available on the mixture itself.

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| CAS No | Chemical name | | | |
|----------|---|-------|----|--------|
| | Method | Value | d | Source |
| | Evaluation | | | |
| 67-64-1 | acetone; propan-2-one; propanone | | | |
| | OECD 301 B | 91% | 28 | |
| | Readily biodegradable (according to OECD criteria). | | | |
| 123-86-4 | n-butyl acetate | | | |
| | OECD 301D/ EEC 92/69/V, C.4-E | 83% | 28 | |
| | Readily biodegradable (according to OECD criteria). | | | |
| 108-65-6 | 2-methoxy-1-methylethyl acetate | | | |
| | OECD 302 B | >90 % | | |
| | 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 |
|----------|----------------------------------|---------|
| 67-64-1 | acetone; propan-2-one; propanone | -0,24 |
| 115-10-6 | dimethyl ether | 0,1 |
| 123-86-4 | n-butyl acetate | 2,3 |
| 108-65-6 | 2-methoxy-1-methylethyl acetate | 0,56 |
| 106-97-8 | butane | 2,89 |
| 71-36-3 | butan-1-ol; n-butanol | 0,88 |

BCF

| CAS No | Chemical name | BCF | Species | Source |
|---------|----------------------------------|-----|---------|--------|
| 67-64-1 | acetone; propan-2-one; propanone | <10 | | |

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

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

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

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Product code: 32802

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List of Wastes Code - used product

080111 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU and removal of paint and varnish; waste paint and varnish containing organic solvents or other 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
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

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| | | |
|--|----------------|--------|
| 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

Warning: Gases under pressure

14.7. Maritime transport in bulk according to IMO instruments

not applicable

Other applicable information

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 28, Entry 40, Entry 75

Directive 2004/42/EC on VOC in 89,2 % (674,0 g/l)

paints and varnishes:

Subcategory according to Directive 2004/42/EC: Special finishes - All types, VOC limit value: 840 g/l

Marketing and use of explosives precursors (Regulation (EU) 2019/1148):

This product is regulated by Regulation (EU) 2019/1148: all suspicious transactions, and significant disappearances and thefts should be reported to the relevant national contact point.

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.

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Water hazard class (D): 1 - slightly 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

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information
Changes

This data sheet contains changes from the previous version in section(s): 2,8,9,11,15.

Abbreviations and acronyms

Flam. Gas 1: Flammable gases, hazard category 1

Aerosol 1: Aerosols, hazard category 1

Press. Gas (Liq.): Gases under pressure: Liquefied gas

Flam. Liq. 2: Flammable liquids, hazard category 2

Flam. Liq. 3: Flammable liquids, hazard category 3

Acute Tox. 4: Acute toxicity, hazard category 4

Skin Irrit. 2: Skin irritation, hazard category 2

Eye Dam. 1: Serious eye damage, hazard category 1

Eye Irrit. 2: Eye irritation, hazard category 2

STOT SE 3: Specific target organ toxicity - single exposure, hazard category 3

 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

| Classification | Classification procedure |
|----------------------|-------------------------------|
| Aerosol 1; H222-H229 | On basis of test data |
| Eye Irrit. 2; H319 | Bridging principle "Aerosols" |
| STOT SE 3; H336 | Bridging principle "Aerosols" |

Relevant H and EUH statements (number and full text)

| | |
|--------|---|
| H220 | Extremely flammable gas. |
| H222 | Extremely flammable aerosol. |
| H225 | Highly flammable liquid and vapour. |
| H226 | Flammable liquid and vapour. |
| H229 | Pressurised container: May burst if heated. |
| H280 | Contains gas under pressure; may explode if heated. |
| H302 | Harmful if swallowed. |
| H315 | Causes skin irritation. |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |
| H335 | May cause respiratory 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

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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.)