

Safety Data Sheet

according to UK REACH Regulation

DINITROL 444 Spray

Revision date: 20.11.2024

Product code: 34059

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SECTION 1: Identification of the substance/mixture and of the company/undertaking
1.1. Product identifier

DINITROL 444 Spray

UFI: M88E-NY8D-7003-SRXM

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 | |
| 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 |

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
 Eye Irrit. 2; H319
 STOT SE 3; H335 H336
 Aquatic Chronic 2; H411

Full text of hazard statements: see SECTION 16.

2.2. Label elements
GB CLP Regulation
Hazard components for labelling

acetone; propan-2-one; propanone
 Hydrocarbons, C9, aromatics
 reaction mass of ethylbenzene and xylene

Signal word: Danger

Pictograms:

Hazard statements

H222 Extremely flammable aerosol.

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| | |
|------|--|
| H229 | Pressurised container: May burst if heated. |
| H319 | Causes serious eye irritation. |
| H336 | May cause drowsiness or dizziness. |
| H411 | Toxic to aquatic life with long lasting effects. |

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. |
| P260 | Do not breathe mist/vapours/spray. |
| P273 | Avoid release to the environment. |
| P410+P412 | Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. |

Special labelling of certain mixtures

| | |
|--------|--|
| EUH066 | Repeated exposure may cause skin dryness or cracking. Restricted to professional users. |
|--------|--|

Additional advice on labelling

The classification of the aerosol was carried out according to EC 1272/2008, Annex 1, point 1.1.3.7.

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 (GB CLP Regulation) | | | |
| 115-10-6 | dimethyl ether | | | 25 - < 50% |
| | 204-065-8 | 603-019-00-8 | 01-2119472128-37 | |
| | Flam. Gas 1, Liquefied gas; H220 H280 | | | |
| 67-64-1 | acetone; propan-2-one; propanone | | | 20 - < 25% |
| | 200-662-2 | 606-001-00-8 | 01-2119471330-49 | |
| | Flam. Liq. 2, Eye Irrit. 2, STOT SE 3; H225 H319 H336 EUH066 | | | |
| 128601-23-0 | Hydrocarbons, C9, aromatics | | | 12,5 - < 20% |
| | 918-668-5 | | 01-2119455851-35 | |
| | Flam. Liq. 3, STOT SE 3, STOT SE 3, Asp. Tox. 1, Aquatic Chronic 2; H226 H335 H336 H304 H411 | | | |
| 7440-66-6 | zinc powder - zinc dust (stabilized) | | | 5 - < 10% |
| | 231-175-3 | 030-001-01-9 | 01-2119467174-37 | |
| | Aquatic Acute 1, Aquatic Chronic 1; H400 H410 | | | |
| 7429-90-5 | aluminium powder (stabilised) | | | 2,5 - < 5 % |
| | 231-072-3 | 013-002-00-1 | 01-2119455851-35 | |
| | Flam. Sol. 1, Water-react. 2; H228 H261 | | | |
| | reaction mass of ethylbenzene and xylene | | | 2,5 - < 5 % |
| | 905-588-0 | | 01-2119488216-32 | |
| | Flam. Liq. 3, Acute Tox. 4, Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2, STOT SE 3, STOT RE 2, Asp. Tox. 1; H226 H332 H312 H315 H319 H335 H373 H304 | | | |
| 64742-48-9 | Naphtha (petroleum), hydrotreated heavy; Low boiling point hydrogen treated naphtha | | | < 2,5 % |
| | 265-150-3 | 649-327-00-6 | | |
| | Asp. Tox. 1; H304 | | | |
| 1314-13-2 | zinc oxide | | | < 0,5 % |
| | 215-222-5 | 030-013-00-7 | 01-2119463881-32 | |
| | Aquatic Acute 1, Aquatic Chronic 1; H400 H410 | | | |

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 | 20 - < 25% |
| | | inhalation: LC50 = 76 mg/l (vapours); dermal: LD50 = 7426-15800 mg/kg; oral: LD50 = 5800 mg/kg | |
| 128601-23-0 | 918-668-5 | Hydrocarbons, C9, aromatics | 12,5 - < 20% |
| | | inhalation: LC50 = 10,2 mg/l (vapours); dermal: LD50 = >2000 mg/kg; oral: LD50 = >6800 mg/kg | |
| 7429-90-5 | 231-072-3 | aluminium powder (stabilised) | 2,5 - < 5 % |
| | | inhalation: LC50 = >5 mg/l (dusts or mists) | |
| | 905-588-0 | reaction mass of ethylbenzene and xylene | 2,5 - < 5 % |
| | | inhalation: LC50 = 29000 mg/l (vapours); inhalation: ATE = 4500 ppm (gases); dermal: LD50 = 2000 mg/kg; oral: LD50 = 3523 mg/kg | |
| 1314-13-2 | 215-222-5 | zinc oxide | < 0,5 % |
| | | inhalation: LC50 = > 2500 mg/l (dusts or mists); oral: LD50 = > 7950 mg/kg Aquatic Acute 1; H400: M=1 Aquatic Chronic 1; H410: M=1 | |

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

Change contaminated clothing.

Wash with plenty of water/Soap.

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

Let water be drunken in little sips (dilution effect).

Call a physician immediately.

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

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

Unsuitable extinguishing media

High power water jet.

5.2. Special hazards arising from the substance or mixture

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

5.3. Advice for firefighters

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

Additional information

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

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C. Do not pierce or burn, even after use.

Heating causes rise in pressure with risk of bursting.

Advice on general occupational hygiene

The usual precautionary measures are to be adhered to when handling chemicals.

Keep away from food, drink and animal feedingstuffs. Remove contaminated, saturated clothing immediately.

Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take

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a shower if necessary. When using do not eat or drink.
 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

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

Not required.

Further information on storage conditions

Keep container tightly closed.

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 |
|-----------|---------------------------------|------|-------------------|-----------|---------------|--------|
| 67-64-1 | Acetone | 500 | 1210 | | TWA (8 h) | WEL |
| | | 1500 | 3620 | | STEL (15 min) | WEL |
| 7429-90-5 | Aluminium metal, inhalable dust | - | 10 | | TWA (8 h) | WEL |
| 115-10-6 | Dimethyl ether | 400 | 766 | | TWA (8 h) | WEL |
| | | 500 | 958 | | STEL (15 min) | 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 |
| 128601-23-0 | Hydrocarbons, C9, aromatics | | | |
| Worker DNEL, long-term | | inhalation | systemic | 150 mg/m ³ |
| Worker DNEL, long-term | | dermal | systemic | 25 mg/kg bw/day |
| Consumer DNEL, long-term | | inhalation | systemic | 32 mg/m ³ |
| Consumer DNEL, long-term | | dermal | systemic | 11 mg/kg bw/day |
| Consumer DNEL, long-term | | oral | systemic | 11 mg/kg bw/day |
| 7429-90-5 | aluminium powder (stabilised) | | | |
| Worker DNEL, long-term | | inhalation | systemic | 3,72 mg/m ³ |
| Worker DNEL, long-term | | inhalation | local | 3,72 mg/m ³ |
| Consumer DNEL, long-term | | oral | systemic | 3,95 mg/kg bw/day |
| 1314-13-2 | zinc oxide | | | |
| Worker DNEL, long-term | | inhalation | systemic | 5 mg/m ³ |
| Worker DNEL, long-term | | inhalation | local | 0,5 mg/m ³ |
| Worker DNEL, long-term | | dermal | systemic | 83 mg/kg bw/day |
| Consumer DNEL, long-term | | inhalation | systemic | 2,5 mg/m ³ |
| Consumer DNEL, long-term | | dermal | systemic | 83 mg/kg bw/day |
| Consumer DNEL, long-term | | oral | systemic | 0,83 mg/kg bw/day |

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PNEC values

| CAS No | Substance | |
|--|----------------------------------|-------------|
| Environmental compartment | | Value |
| 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 |
| 7429-90-5 | aluminium powder (stabilised) | |
| Freshwater | | 0,0749 mg/l |
| Micro-organisms in sewage treatment plants (STP) | | 20 mg/l |
| 1314-13-2 | zinc oxide | |
| Freshwater | | 0,0206 mg/l |
| Marine water | | 0,0061 mg/l |
| Freshwater sediment | | 117,8 mg/kg |
| Marine sediment | | 56,5 mg/kg |
| Micro-organisms in sewage treatment plants (STP) | | 0,100 mg/l |
| Soil | | 35,6 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)

Hand protection

Tested protective gloves must be worn (EN ISO 374):

FKM (fluoro rubber), Breakthrough time:: 120 min.

Butyl caoutchouc (butyl rubber), Breakthrough time:: 120 min.

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

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SECTION 9: Physical and chemical properties
9.1. Information on basic physical and chemical properties

| | | |
|---|--|-----------------------|
| Physical state: | Aerosol | |
| Colour: | silver grey | |
| Odour: | characteristic | |
| Odour threshold: | not determined | |
| Melting point/freezing point: | | not determined |
| Boiling point or initial boiling point and boiling range: | | not applicable |
| Flammability: | | not applicable |
| Lower explosion limits: | | 0,7 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 |

9.2. Other information
Information with regard to physical hazard classes

| | | |
|---------------------------|--|-------------------|
| Explosive properties | | not determined |
| Sustaining combustion: | | No data available |
| Self-ignition temperature | | |
| Solid: | | not applicable |
| Gas: | | not applicable |
| Oxidizing properties | | not determined |

Other safety characteristics

| | | |
|--------------------------|--|----------------|
| Evaporation rate: | | not determined |
| Solvent separation test: | | not determined |
| Solvent content: | | 82,8 % |
| Solid content: | | 17,2 % |
| 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.

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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

Hazardous decomposition products: none

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) > 5000 mg/kg; ATE (inhalation gas) > 50000 ppm

| 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 | | |
| 128601-23-0 | Hydrocarbons, C9, aromatics | | | | |
| | oral | LD50 >6800 mg/kg | Rat | | |
| | dermal | LD50 >2000 mg/kg | Rabbit | | |
| | inhalation (4 h) vapour | LC50 10,2 mg/l | Rat | | |
| 7429-90-5 | aluminium powder (stabilised) | | | | |
| | inhalation (4 h) dust/mist | LC50 >5 mg/l | Rat | | |
| | reaction mass of ethylbenzene and xylene | | | | |
| | oral | LD50 3523 mg/kg | Rat | | |
| | dermal | LD50 2000 mg/kg | Rabbit | | |
| | inhalation (4 h) vapour | LC50 29000 mg/l | Rat | | |
| | inhalation gas | ATE 4500 ppm | | | |
| 1314-13-2 | zinc oxide | | | | |
| | oral | LD50 > 7950 mg/kg | Rat | | |
| | inhalation (4 h) dust/mist | LC50 > 2500 mg/l | Rat | | |

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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 respiratory irritation. (Hydrocarbons, C9, aromatics)

May cause drowsiness or dizziness. (acetone; propan-2-one; propanone; Hydrocarbons, C9, 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.

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**

Toxic to aquatic life with long lasting effects.

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| 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 | |
| 128601-23-0 | Hydrocarbons, C9, aromatics | | | | | |
| | Acute fish toxicity | LC50 | 9,2 mg/l | 96 h | Onchorhynchus mykiss (Rainbow trout) | |
| | Acute algae toxicity | ErC50 | 2,9 mg/l | 72 h | Pseudokirchneriella subcapitata | |
| | Acute crustacea toxicity | EC50 | 3,2 mg/l | 48 h | Daphnia magna (Big water flea) | |
| | reaction mass of ethylbenzene and xylene | | | | | |
| | Acute fish toxicity | LC50 mg/l | 13,5 | 96 h | fish | |
| | Acute crustacea toxicity | EC50 | 7,4 mg/l | 48 h | Daphnia magna (Big water flea) | |
| 1314-13-2 | zinc oxide | | | | | |
| | Acute fish toxicity | LC50 mg/l | 1120 | 96 h | fish | GESTIS |
| | Acute crustacea toxicity | EC50 mg/l | 12,3 | 48 h | | GESTIS |

12.2. Persistence and degradability

There are no data available on the mixture itself.

| 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). | | | |

12.3. Bioaccumulative potential

There are no data available on the mixture itself.

Partition coefficient n-octanol/water

| CAS No | Chemical name | Log Pow |
|----------|----------------------------------|---------|
| 115-10-6 | dimethyl ether | 0,1 |
| 67-64-1 | acetone; propan-2-one; propanone | -0,24 |

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.

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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

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

150104 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); metallic packaging

Contaminated packaging

Remove according to the regulations.

SECTION 14: Transport information

Land transport (ADR/RID)

| | |
|--|-------------------------------------|
| <u>14.1. UN number or ID number:</u> | UN 1950 |
| <u>14.2. UN proper shipping name:</u> | AEROSOLS, ENVIRONMENTALLY HAZARDOUS |
| <u>14.3. Transport hazard class(es):</u> | 2 |
| <u>14.4. Packing group:</u> | - |
| 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)

| | |
|--|---|
| <u>14.1. UN number or ID number:</u> | UN 1950 |
| <u>14.2. UN proper shipping name:</u> | AEROSOLS (zinc powder - zinc dust (stabilized), Solvent naphtha (petroleum), light arom.), MARINE POLLUTANT |
| <u>14.3. Transport hazard class(es):</u> | 2.1 |
| <u>14.4. Packing group:</u> | - |
| Hazard label: | 2.1 |

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| | |
|---------------------|-----------------------------|
| Marine pollutant: | yes |
| 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, flammable |
| 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: Yes



Danger releasing substance: zinc powder - zinc dust (stabilized)

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

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Restrictions on use (REACH, annex XVII):

Entry 40, Entry 75

| | |
|---|--|
| Directive 2004/42/EC on VOC in paints and varnishes: | 82,8 % |
| Subcategory according to Directive 2004/42/EC: | 685,6 g/l |
| Information according to Directive 2012/18/EU (SEVESO III): | Special finishes - All types, VOC limit value: 840 g/l |
| Additional information: | P3a FLAMMABLE AEROSOLS |

Additional information: E2

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.

Water hazard class (D): 2 - obviously 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, aromatics

SECTION 16: Other information

Changes

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

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Abbreviations and acronyms

Water-react: Substances and mixtures which in contact with water emit flammable gases
 Flam. Gas: Flammable gases
 Aerosol: Aerosols
 Liquefied gas
 Flam. Liq: Flammable liquids
 Flam. Sol: Flammable solids
 Acute Tox: Acute toxicity
 Asp. Tox: Aspiration hazard
 Skin Irrit: Skin irritation
 Eye Irrit: Eye irritation
 STOT SE: Specific target organ toxicity - single exposure
 STOT RE: Specific target organ toxicity - repeated exposure
 Aquatic Acute: Acute aquatic hazard
 Aquatic Chronic: Chronic aquatic hazard
 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 |
| Eye Irrit. 2; H319 | Bridging principle "Aerosols" |
| STOT SE 3; H335 | Bridging principle "Aerosols" |
| STOT SE 3; H336 | Bridging principle "Aerosols" |
| Aquatic Chronic 2; H411 | Calculation method |

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. |
| H228 | Flammable solid. |
| H229 | Pressurised container: May burst if heated. |
| H261 | In contact with water releases flammable gases. |
| H280 | Contains gas under pressure; may explode if heated. |
| H304 | May be fatal if swallowed and enters airways. |
| H312 | Harmful in contact with skin. |
| H315 | Causes skin irritation. |
| H319 | Causes serious eye irritation. |
| H332 | Harmful if inhaled. |
| H335 | May cause respiratory irritation. |
| H336 | May cause drowsiness or dizziness. |
| H373 | May cause damage to organs through prolonged or repeated exposure. |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |
| H411 | Toxic to aquatic life with long lasting effects. |
| EUH066 | Repeated exposure may cause skin dryness or cracking. |

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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.)