

Safety Data Sheet

according to Regulation (EC) No 1907/2006

DINITROL MS 40 Spray

Print date: 25.04.2016

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

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

| | | |
|-------------------------|----------------------|--------------------------------|
| Company name: | DINOL GmbH | |
| Street: | Pyrmonter Strasse 76 | |
| Place: | D-32676 Luegde | |
| Telephone: | +49 (0) 5281 9829 80 | Telefax: +49 (0) 5281 9829 860 |
| Responsible Department: | msds@dinol.com | |

1.4. Emergency telephone number: Giftnotruf Berlin: +49 30 30686 790 (Consultation in German and English)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Directive 67/548/EEC or 1999/45/EC

Indications of danger: F+ - Extremely flammable, Xi - Irritant
R phrases:
Extremely flammable.
May cause sensitisation by skin contact.
Repeated exposure may cause skin dryness or cracking.
Vapours may cause drowsiness and dizziness.

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Hazard categories:
Aerosol: Aerosol 1
Respiratory or skin sensitisation: Skin Sens. 1B
Specific target organ toxicity - single exposure: STOT SE 3
Hazard Statements:
Extremely flammable aerosol.
Pressurised container: May burst if heated.
May cause an allergic skin reaction.
May cause drowsiness or dizziness.

2.2. Label elements

Hazard components for labelling

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics
Benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts

Signal word: Danger
Pictograms: GHS02-GHS07



Hazard statements

H222

Extremely flammable aerosol.

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| | |
|------|---|
| H229 | Pressurised container: May burst if heated. |
| H317 | May cause an allergic skin reaction. |
| H336 | May cause drowsiness or dizziness. |

Precautionary statements

| | |
|-----------|--|
| P102 | Keep out of reach of children. |
| 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 vapour/aerosol. |
| P271 | Use only outdoors or in a well-ventilated area. |
| P280 | Wear protective gloves and eye/face protection. |
| 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. |
|--------|---|

2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous components

| EC No | Chemical name | Quantity |
|------------------|---|----------|
| CAS No | Classification according to Directive 67/548/EEC | |
| Index No | Classification according to Regulation (EC) No. 1272/2008 [CLP] | |
| REACH No | | |
| 919-857-5 | Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics | 50-75 % |
| 64742-48-9 | Xn - Harmful R10-65-66-67 | |
| 649-327-00-6 | Flam. Liq. 3, STOT SE 3, Asp. Tox. 1; H226 H336 H304 EUH066 | |
| 01-2119463258-33 | | |
| | Mineral Oil | 20-25 % |
| | | |
| | Asp. Tox. 1; H304 | |
| 939-603-7 | Benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts | 1-2,5 % |
| | R43 | |
| | Skin Sens. 1B; H317 | |
| 01-2119978241-36 | | |
| 204-696-9 | Carbon dioxide | 1-2,5 % |
| 124-38-9 | | |
| | Compressed gas; H280 | |

Full text of R, H and EUH phrases: see section 16.

Further Information

Note: Each entry in the column EC number that begins with the number "9" is - until the publication the official registration number - one specified by ECHA provisional number for the substance. The above-mentioned substance(s) in this product is (are) identified by CAS number and indeed in Countries that are not subject to the REACH Regulation, or in a regulation which is not in accordance with new naming convention for hydrocarbons have been updated.

SECTION 4: First aid measures

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4.1. Description of first aid measures

After inhalation

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

Treat symptomatically.

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. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Remove all sources of ignition. Provide adequate ventilation.
Avoid contact with skin, eyes and clothes.

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

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).
Treat the recovered material as prescribed in the section on waste disposal.

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

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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.

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 against direct sunlight.

Advice on storage compatibility

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 |

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DNEL/DMEL values

| CAS No | Substance | | |
|--------------------------|---|----------|--------------------------|
| DNEL type | Exposure route | Effect | Value |
| 64742-48-9 | 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 |
| | Benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts | | |
| Worker DNEL, long-term | inhalation | systemic | 35,26 mg/m ³ |
| Worker DNEL, long-term | dermal | systemic | 25,00 mg/kg bw/day |
| Worker DNEL, acute | dermal | local | 1,04 mg/cm ² |
| Consumer DNEL, long-term | inhalation | systemic | 8,7 mg/m ³ |
| Consumer DNEL, long-term | dermal | systemic | 12,5 mg/kg bw/day |
| Consumer DNEL, acute | dermal | local | 0,518 mg/cm ² |
| Consumer DNEL, long-term | oral | systemic | 2,5 mg/kg bw/day |

PNEC values

| CAS No | Substance | |
|--|--|--|
| Environmental compartment | Value | |
| | Benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts | |
| Freshwater | 0,1 mg/l | |
| Marine water | 0,1 mg/l | |
| Freshwater sediment | 45211 mg/kg | |
| Marine sediment | 45211 mg/kg | |
| Micro-organisms in sewage treatment plants (STP) | 1000 mg/l | |
| Soil | 36,74 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.

Protective and hygiene measures

Keep away from food, drink and animal feedingstuffs.

When using do not eat or drink.

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Wash hands before breaks and after work.
 Avoid contact with skin and eyes.
 Remove contaminated, saturated clothing immediately.

Eye/face protection

Eye glasses with side protection (DIN EN 166)

Hand protection

Tested protective gloves must be worn (DIN EN 374):
 NBR (Nitrile rubber) , Breakthrough time (maximum wearing time): 240 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: A

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|-----------------|----------------|
| Physical state: | Aerosol |
| Colour: | light yellow |
| Odour: | characteristic |

Test method

| | |
|-----------|----------------|
| pH-Value: | not determined |
|-----------|----------------|

Changes in the physical state

| | |
|--|----------------|
| Melting point: | not determined |
| Initial boiling point and boiling range: | 149 °C |
| Flash point: | 40 °C |

Flammability

| | |
|--------|----------------|
| Solid: | not applicable |
| Gas: | not applicable |

Explosive properties

not determined

| | |
|-------------------------|------------|
| Lower explosion limits: | 0,6 vol. % |
| Upper explosion limits: | 7,0 vol. % |
| Ignition temperature: | 240 °C |

Auto-ignition temperature

| | |
|--------|----------------|
| Solid: | not applicable |
| Gas: | not applicable |

| | |
|----------------------------|----------------|
| Decomposition temperature: | not determined |
|----------------------------|----------------|

Oxidizing properties

Not oxidizing.

| | |
|--------------------------------|-------------------------|
| Vapour pressure: (at 20 °C) | 5750 hPa |
| Density (at 20 °C): | 0,797 g/cm ³ |
| Water solubility: | insoluble |

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Solubility in other solvents

not determined

| | |
|------------------------|----------------|
| Partition coefficient: | not determined |
| Viscosity / dynamic: | not determined |
| Viscosity / kinematic: | not determined |
| Vapour density: | not determined |
| Evaporation rate: | not determined |
| Solvent content: | 68,1 % |

9.2. Other information

| | |
|----------------|-------|
| Solid content: | 6,0 % |
|----------------|-------|

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 toxicological effects

Acute toxicity

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

| CAS No | Chemical name | | | | |
|------------|---|--------|--------------|---------|--------|
| | Exposure route | Method | Dose | Species | Source |
| 64742-48-9 | Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics | | | | |
| | oral | LD50 | >5000 mg/kg | Rat | |
| | dermal | LD50 | >5000 mg/kg | Rabbit | |
| | inhalative (4 h) vapour | LC50 | >4951 mg/l | Rat | |
| | Benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts | | | | |
| | oral | LD50 | > 5000 mg/kg | Rat | |
| | dermal | LD50 | > 2000 mg/kg | Rat | |

Irritation and corrosivity

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

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Sensitising effects

May cause an allergic skin reaction. (Benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts)

STOT-single exposure

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

Severe effects after repeated or prolonged exposure

Repeated exposure may cause skin dryness or cracking.

Carcinogenic/mutagenic/toxic effects for reproduction

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

Aspiration hazard

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

Further information

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

SECTION 12: Ecological information

12.1. Toxicity

The product is not: Ecotoxic.

12.2. Persistence and degradability

The product has not been tested.

| CAS No | Chemical name | Method | Value | d | Source |
|------------|---|------------|-------|---|--------|
| | | Method | | | |
| | | Evaluation | | | |
| 64742-48-9 | Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics | | 80% | | |
| | Readily biodegradable (according to OECD criteria). | | | | |

12.3. Bioaccumulative potential

The product has not been tested.

Partition coefficient n-octanol/water

| CAS No | Chemical name | Log Pow |
|----------|----------------|---------|
| 124-38-9 | Carbon dioxide | 0,83 |

12.4. Mobility in soil

The product has not been tested.

12.5. Results of PBT and vPvB assessment

not applicable

12.6. Other adverse effects

No information available.

Further information

Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Advice on disposal

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

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

Waste disposal number of waste from residues/unused products

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

Waste disposal number of 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
Classified as hazardous waste.

Contaminated packaging

Remove according to the regulations.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN 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: 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)

14.1. UN 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

No information available.

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

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

2004/42/EC (VOC): 68,1 % (543 g/l)

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 juvenils 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 contaminating class (D): 1 - slightly water contaminating

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

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This data sheet contains changes from the previous version in section(s): 3,14.

Abbreviations and acronyms

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%

Relevant R phrases (number and full text)

- | | |
|----|---|
| 10 | Flammable. |
| 12 | Extremely flammable. |
| 43 | May cause sensitisation by skin contact. |
| 65 | Harmful: may cause lung damage if swallowed. |
| 66 | Repeated exposure may cause skin dryness or cracking. |
| 67 | Vapours may cause drowsiness and dizziness. |

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. |
| H317 | May cause an allergic skin reaction. |
| 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.

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