

DINITROL 25 B

Revision: 18.03.2026

Product code: 21612

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

DINITROL 25 B

UFI: DYH9-UMXN-R000-AE09

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

Anti-corrosive coating

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 |

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
Regulation (EC) No 1272/2008

Asp. Tox. 1; H304

Full text of hazard statements: see SECTION 16.

2.2. Label elements
Regulation (EC) No 1272/2008
Hazard components for labelling

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics

Signal word: Danger

Pictograms:

Hazard statements

| | |
|--------|---|
| H304 | May be fatal if swallowed and enters airways. |
| EUH066 | Repeated exposure may cause skin dryness or cracking. |

Precautionary statements

| | |
|-----------|--|
| P301+P310 | IF SWALLOWED: Immediately call a POISON CENTER/doctor. |
| P331 | Do NOT induce vomiting. |

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P405 Store locked up.

Special labelling

Restricted to professional users.

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 (Regulation (EC) No 1272/2008) | | | |
| - | Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics | | | 70 - < 75 % |
| | 918-481-9 | | 01-2119457273-39 | |
| | Asp. Tox. 1; H304 | | | |
| 68608-26-4 | Sulfonic acids, petroleum, sodium salts | | | 5 - < 10 % |
| | 271-781-5 | | 01-2119527859-22 | |
| | Eye Irrit. 2; H319 | | | |
| 111-76-2 | 2-butoxyethanol; ethylene glycol monobutyl ether | | | 1 - < 5 % |
| | 203-905-0 | 603-014-00-0 | 01-2119475108-36 | |
| | Acute Tox. 3, Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2; H331 H302 H315 H319 | | | |

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

Specific Conc. Limits, M-factors and ATE

| CAS No | EC No | Chemical name | Quantity |
|------------|-----------|---|-------------|
| | | Specific Conc. Limits, M-factors and ATE | |
| - | 918-481-9 | Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics | 70 - < 75 % |
| | | dermal: LD50 = > 5000 mg/kg; oral: LD50 = > 5000 mg/kg | |
| 68608-26-4 | 271-781-5 | Sulfonic acids, petroleum, sodium salts | 5 - < 10 % |
| | | dermal: LD50 = > 5000 mg/kg | |
| 111-76-2 | 203-905-0 | 2-butoxyethanol; ethylene glycol monobutyl ether | 1 - < 5 % |
| | | inhalation: ATE 3 mg/l (vapours); oral: ATE 1200 mg/kg | |

Further Information

Hydrocarbons meet the requirements for not being classified as carcinogenic (<0,1% benzene alt<3% (w/w) DMSO extract (IP 346)).

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. If breathing is irregular or stopped, administer artificial respiration. Medical treatment necessary. If unconscious but breathing normally, place in recovery position and seek medical advice.

After contact with skin

Change contaminated clothing.

After contact with skin, wash immediately with plenty of water and soap.

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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. Seek medical advice immediately.

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

No further relevant 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

Carbon dioxide (CO₂), Foam, Extinguishing powder.

Unsuitable extinguishing media

High power water jet.

5.2. Special hazards arising from the substance or mixture

No further relevant information available.

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

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. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment.

For emergency responders

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

6.2. Environmental precautions

Do not allow uncontrolled discharge of product into the environment.

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.

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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

No special fire protection measures are necessary.

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

Further information on handling

No special handling advices are necessary.

7.2. Conditions for safe storage, including any incompatibilities
Requirements for storage rooms and vessels

Not required.

Hints on joint storage

Not required.

Further information on storage conditions

Keep container tightly closed.

7.3. Specific end use(s)

Anti-corrosive coating

SECTION 8: Exposure controls/personal protection
8.1. Control parameters
Exposure limits (EH40)

| CAS No | Substance | ppm | mg/m ³ | fibres/ml | Category | Origin |
|----------|-----------------|-----|-------------------|-----------|---------------|--------|
| 111-76-2 | 2-Butoxyethanol | 25 | 123 | | TWA (8 h) | WEL |
| | | 50 | 246 | | STEL (15 min) | WEL |

Biological Monitoring Guidance Values (EH40)

| CAS No | Substance | Parameter | Value | Test material | Sampling time |
|----------|-----------------|--------------------------------|--------------|---------------|---------------|
| 111-76-2 | 2-Butoxyethanol | butoxyacetic acid (creatinine) | 240 mmol/mol | urine | Post shift |

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DNEL/DMEL values

| CAS No | Substance | | |
|--------------------------|--|----------|-----------------------|
| DNEL type | Exposure route | Effect | Value |
| 111-76-2 | 2-butoxyethanol; ethylene glycol monobutyl ether | | |
| Consumer DNEL, acute | oral | systemic | 13,4 mg/kg bw/day |
| Consumer DNEL, long-term | oral | systemic | 3,2 mg/kg bw/day |
| Worker DNEL, long-term | dermal | systemic | 75 mg/kg bw/day |
| Consumer DNEL, acute | dermal | systemic | 44,5 mg/kg bw/day |
| Consumer DNEL, long-term | dermal | systemic | 38 mg/kg bw/day |
| Worker DNEL, acute | inhalation | local | 246 mg/m ³ |
| Worker DNEL, long-term | inhalation | systemic | 98 mg/m ³ |
| Consumer DNEL, acute | inhalation | systemic | 633 mg/m ³ |
| Worker DNEL, acute | inhalation | systemic | 633 mg/m ³ |
| Consumer DNEL, acute | inhalation | local | 123 mg/m ³ |
| Consumer DNEL, long-term | inhalation | systemic | 49 mg/m ³ |

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

Filling and transfer: Eye glasses with side protection (EN 166)

Hand protection

Recommended glove articles :

FKM (fluoro rubber) penetration time (maximum wearing period): 480 min.

NBR (Nitrile rubber) penetration time (maximum wearing period): 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: A

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | | |
|---|--|--------------------|
| Physical state: | Liquid | |
| Colour: | brown - transparent | |
| Odour: | characteristic | |
| Odour threshold: | not determined | |
| | | Test method |
| Melting point/freezing point: | not determined | |
| Boiling point or initial boiling point and boiling range: | 184 - 214 °C | |
| Flammability: | not applicable | |
| Lower explosion limits: | 0,6 vol. % | |
| Upper explosion limits: | 6 vol. % | |
| Flash point: | 65 °C | DIN 53213 |
| Auto-ignition temperature: | > 200 °C | |
| Decomposition temperature: | not determined | |
| pH-Value: | The study does not need to be conducted because the substance is known to be insoluble in water. | |
| Viscosity / kinematic: | not determined | |
| Water solubility: | practically insoluble | |
| Solubility in other solvents: | not determined | |
| Partition coefficient n-octanol/water: | not determined | |
| Vapour pressure: | 0,5 hPa | |
| (at 20 °C) | | |
| Density (at 20 °C): | 0,81 - 0,83 g/cm ³ | DIN 51757 |
| Relative vapour density: | not determined | |
| Particle characteristics: | not applicable | |

9.2. Other information

Information with regard to physical hazard classes

| | |
|---------------------------|-------------------|
| Explosive properties | not determined |
| Sustained combustibility: | No data available |
| Self-ignition temperature | |
| Solid: | not applicable |
| Gas: | not applicable |
| Oxidizing properties | |
| Not oxidising. | |

Other safety characteristics

| | |
|--------------------------|-------------------|
| Evaporation rate: | not determined |
| Solvent separation test: | not determined |
| Solvent content: | 73,3 % |
| Solid content: | 22 - 26 % |
| Sublimation point: | not determined |
| Softening point: | not determined |
| Flow time: | 10 - 13 |
| (at 20 °C) | 4 DIN EN ISO 2431 |

Further Information

No information available.

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SECTION 10: Stability and reactivity
10.1. Reactivity

No further relevant information available.

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

No further relevant information available.

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 tested

| | Dose | Species | Source |
|---------------------------------|---------------|---------|--------|
| LD50, oral | > 18501 mg/kg | Rat | |
| LC50, inhalation (vapour) (4 h) | > 92,5 mg/l | Rat | |

ATEmix calculated

ATE (dermal) > 2000 mg/kg; ATE (inhalation dust/mist) > 12,5 mg/l

| CAS No | Chemical name | | | | |
|------------|---|-------------------|---------|--------|--------|
| | Exposure route | Dose | Species | Source | Method |
| - | Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics | | | | |
| | oral | LD50 > 5000 mg/kg | Rat | | |
| | dermal | LD50 > 5000 mg/kg | Rabbit | | |
| 68608-26-4 | Sulfonic acids, petroleum, sodium salts | | | | |
| | dermal | LD50 > 5000 mg/kg | Rabbit | | |
| 111-76-2 | 2-butoxyethanol; ethylene glycol monobutyl ether | | | | |
| | oral | ATE 1200 mg/kg | | | |
| | inhalation vapour | ATE 3 mg/l | | | |

Irritation and corrosivity

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.

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

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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

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

STOT-repeated exposure

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

Aspiration hazard

May be fatal if swallowed and enters airways.

Information on likely routes of exposure

No information available.

Specific effects in experiment on an animal

No information available.

Additional information on tests

-

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 |
| - | Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics | | | | | |
| | Acute fish toxicity | LC50 > 1000 mg/l | 96 h | Oncorhynchus mykiss (Rainbow trout) | | |
| 111-76-2 | 2-butoxyethanol; ethylene glycol monobutyl ether | | | | | |
| | Acute fish toxicity | LC50 1490 mg/l | 96 h | Lepomis macrochirus | | |

12.2. Persistence and degradability

There are no data available on the mixture itself.

12.3. Bioaccumulative potential

There are no data available on the mixture itself.

Partition coefficient n-octanol/water

| CAS No | Chemical name | Log Pow |
|----------|--|-------------|
| 111-76-2 | 2-butoxyethanol; ethylene glycol monobutyl ether | 0,81 (25°C) |

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

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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 further relevant information available.

Further information

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

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

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: | No dangerous good in sense of this transport regulation. |
| 14.2. UN proper shipping name: | No dangerous good in sense of this transport regulation. |
| 14.3. Transport hazard class(es): | No dangerous good in sense of this transport regulation. |
| 14.4. Packing group: | No dangerous good in sense of this transport regulation. |

Inland waterways transport (ADN)

| | |
|--|--|
| 14.1. UN number or ID number: | No dangerous good in sense of this transport regulation. |
| 14.2. UN proper shipping name: | No dangerous good in sense of this transport regulation. |
| 14.3. Transport hazard class(es): | No dangerous good in sense of this transport regulation. |
| 14.4. Packing group: | No dangerous good in sense of this transport regulation. |

Marine transport (IMDG)

| | |
|--|--|
| 14.1. UN number or ID number: | No dangerous good in sense of this transport regulation. |
| 14.2. UN proper shipping name: | No dangerous good in sense of this transport regulation. |
| 14.3. Transport hazard class(es): | No dangerous good in sense of this transport regulation. |
| 14.4. Packing group: | No dangerous good in sense of this transport regulation. |

Marine pollutant: no

Air transport (ICAO-TI/IATA-DGR)

| | |
|--|--|
| 14.1. UN number or ID number: | No dangerous good in sense of this transport regulation. |
| 14.2. UN proper shipping name: | No dangerous good in sense of this transport regulation. |
| 14.3. Transport hazard class(es): | No dangerous good in sense of this transport regulation. |
| 14.4. Packing group: | No dangerous good in sense of this transport regulation. |

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

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14.6. Special precautions for user

No information available.

14.7. Maritime transport in bulk according to IMO instruments

not applicable

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 3, Entry 75

| | |
|--|--|
| Directive 2004/42/EC on VOC in paints and varnishes: | 73,33 % 601,3 g/l |
| Subcategory according to Directive 2004/42/EC: | Special finishes - All types, VOC limit value: 840 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 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): | 1 - slightly hazardous to water |
| Skin resorption/Sensitization: | Causes allergic hypersensitivity reactions. |

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:

SECTION 16: Other information

Changes

This data sheet contains changes from the previous version in section(s): 2,8,9,11,16.

Abbreviations and acronyms

- Acute Tox. 3: Acute toxicity, hazard category 3
- Acute Tox. 4: Acute toxicity, hazard category 4
- Asp. Tox. 1: Aspiration hazard, hazard category 1
- Skin Irrit. 2: Skin irritation, hazard category 2
- Eye Irrit. 2: Eye irritation, hazard category 2
- 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%

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Classification for mixtures and used evaluation method

| | |
|-------------------|--------------------------|
| Classification | Classification procedure |
| Asp. Tox. 1; H304 | Calculation method |

Relevant H and EUH statements (number and full text)

| | |
|--------|---|
| H302 | Harmful if swallowed. |
| H304 | May be fatal if swallowed and enters airways. |
| H315 | Causes skin irritation. |
| H319 | Causes serious eye irritation. |
| H331 | Toxic if inhaled. |
| 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 contains only safety-related information and does not replace product information or product specifications.

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.)