

Safety Data Sheet

according to UK REACH Regulation

DINITROL 538 PLUS

Revision date: 11.01.2022

Product code: 10730

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

DINITROL 538 PLUS

UFI: 07QX-00X5-700F-MD88

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

Adhesion promoter

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 982980 | Telefax: + 49 (0) 5281 9829860 |
| e-mail: | msds@dinol.com | |
| Contact person: | Labor | |
| Responsible Department: | msds@dinol.com | |

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**

Flam. Liq. 2; H225
Eye Irrit. 2; H319
Resp. Sens. 1; H334
Skin Sens. 1; H317
STOT SE 3; H336

Full text of hazard statements: see SECTION 16.

2.2. Label elements**GB CLP Regulation****Hazard components for labelling**

butanone; ethyl methyl ketone
Hexamethylene diisocyanate, oligomers
Diphenylmethanediisocyanate, isomers and homologues

Signal word: Danger**Pictograms:****Hazard statements**

| | |
|------|--|
| H225 | Highly flammable liquid and vapour. |
| H319 | Causes serious eye irritation. |
| H334 | May cause allergy or asthma symptoms or breathing difficulties if inhaled. |
| H317 | May cause an allergic skin reaction. |
| H336 | May cause drowsiness or dizziness. |

Precautionary statements

| | |
|------|--|
| P210 | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
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| | |
|----------------|--|
| P280 | Wear protective gloves/protective clothing/eye protection/face protection/hearing protection. |
| P405 | Store locked up. |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P303+P361+P353 | IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. |
| P403+P235 | Store in a well-ventilated place. Keep cool. |

Special labelling of certain mixtures

| | |
|--------|---|
| EUH204 | Contains isocyanates. May produce an allergic reaction. Restricted to professional users. As from 24 August 2023 adequate training is required before industrial or professional use. |
|--------|---|

Labelling of packages where the contents do not exceed 125 ml**Signal word:** Danger**Pictograms:****Hazard statements**

H334-H317

Precautionary statements

P280

2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients**3.2. Mixtures**

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Hazardous components

| CAS No | Chemical name | | | Quantity |
|------------|---|--------------|------------------|-------------|
| | EC No | Index No | REACH No | |
| | Classification (GB CLP Regulation) | | | |
| 78-93-3 | butanone; ethyl methyl ketone | | | 65 - < 70 % |
| | 201-159-0 | 606-002-00-3 | 01-2119457290-43 | |
| | Flam. Liq. 2, Eye Irrit. 2, STOT SE 3; H225 H319 H336 EUH066 | | | |
| 108-65-6 | 2-methoxy-1-methylethyl acetate | | | 5 - < 10 % |
| | 203-603-9 | 607-195-00-7 | 01-2119475791-29 | |
| | Flam. Liq. 3; H226 | | | |
| 28182-81-2 | Hexamethylene diisocyanate, oligomers | | | 5 - < 10 % |
| | 931-274-8 | | 01-2119485796-17 | |
| | Acute Tox. 4, Skin Sens. 1, STOT SE 3; H332 H317 H335 | | | |
| 123-86-4 | n-butyl acetate | | | 1 - < 5 % |
| | 204-658-1 | 607-025-00-1 | 01-2119485493-29 | |
| | Flam. Liq. 3, STOT SE 3; H226 H336 EUH066 | | | |
| 1330-20-7 | xylene | | | 1 - < 5 % |
| | 215-535-7 | 601-022-00-9 | | |
| | Flam. Liq. 3, Acute Tox. 4, Acute Tox. 4, Skin Irrit. 2; H226 H332 H312 H315 | | | |
| 9016-87-9 | Diphenylmethanediisocyanate, isomeres and homologues | | | < 1 % |
| | Carc. 2, Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2, Resp. Sens. 1, Skin Sens. 1, STOT SE 3, STOT RE 2; H351 H332 H315 H319 H334 H317 H335 H373 EUH204 | | | |

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 | |
| 78-93-3 | 201-159-0 | butanone; ethyl methyl ketone | 65 - < 70 % |
| | | inhalation: LC50 = 12 mg/l (vapours); dermal: LD50 = 5000 mg/kg; oral: LD50 = 3300 mg/kg | |
| 108-65-6 | 203-603-9 | 2-methoxy-1-methylethyl acetate | 5 - < 10 % |
| | | inhalation: LC50 = 35,7 mg/l (vapours); oral: LD50 = 8500 mg/kg | |
| 28182-81-2 | 931-274-8 | Hexamethylene diisocyanate, oligomers | 5 - < 10 % |
| | | inhalation: LC50 = 11 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); oral: LD50 = >5000 mg/kg | |
| 123-86-4 | 204-658-1 | n-butyl acetate | 1 - < 5 % |
| | | inhalation: LC50 = >21 mg/l (dusts or mists); dermal: LD50 = > 5000 mg/kg; oral: LD50 = 8800 mg/kg | |
| 1330-20-7 | 215-535-7 | xylene | 1 - < 5 % |
| | | inhalation: ATE = 11 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); dermal: ATE = 1100 mg/kg | |
| 9016-87-9 | | Diphenylmethanediisocyanate, isomeres and homologues | < 1 % |
| | | inhalation: ATE = 11 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); dermal: LD50 = >9400 mg/kg; oral: LD50 = >10000 mg/kg | |

SECTION 4: First aid measures
4.1. Description of first aid measures
General information

Change contaminated clothing.

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After inhalation

Provide fresh air. Medical treatment necessary. If unconscious but breathing normally, place in recovery position and seek medical advice.

After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention.

After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

After ingestion

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

Carbon dioxide (CO₂), Extinguishing powder. Water spray jet
In case of major fire and large quantities: Water spray jet, alcohol resistant foam.

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

No special measures are necessary.

Additional information

Use water spray jet to protect personnel and to cool endangered containers. Suppress gases/vapours/mists with water spray jet.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General advice

Do not breathe the 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. Do not allow to enter into surface water or drains.

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.

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Do not rinse down with water.

Other information

Provide adequate ventilation. 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.

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. Avoid: generation/formation of aerosols Do not breathe gas/fumes/vapour/spray.

Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges.

Advice on general occupational hygiene

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.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed.

Provide adequate ventilation as well as local exhaustion at critical locations. Keep in a cool, well-ventilated place. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Hints on joint storage

No special measures are necessary.

Further information on storage conditions

maximum storage temperature: < 40°C

minimum storage temperature: > 4°C

storage temperature: 4 - 40°C

7.3. Specific end use(s)

No further relevant 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 |
| 78-93-3 | Butan-2-one (methyl ethyl ketone) | 200 | 600 | | TWA (8 h) | WEL |
| | | 300 | 899 | | STEL (15 min) | WEL |
| 123-86-4 | Butyl acetate | 150 | 724 | | TWA (8 h) | WEL |
| | | 200 | 966 | | STEL (15 min) | WEL |
| 1330-20-7 | Xylene: mixed isomers | 50 | 220 | | TWA (8 h) | WEL |
| | | 100 | 441 | | STEL (15 min) | WEL |

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Biological Monitoring Guidance Values (EH40)

| CAS No | Substance | Parameter | Value | Test material | Sampling time |
|-----------|-------------------------------------|-----------------------------------|--------------|---------------|---------------|
| 78-93-3 | Butan-2-one | butan-2-one | 70 µmol/L | urine | Post shift |
| 1330-20-7 | Xylene, o-, m-, p- or mixed isomers | methyl hippuric acid (creatinine) | 650 mmol/mol | urine | Post shift |

DNEL/DMEL values

| CAS No | Substance | DNEL type | Exposure route | Effect | Value |
|----------|---------------------------------|--------------------------|----------------|----------|--------------------------|
| 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 |
| 123-86-4 | n-butyl acetate | | | | |
| | | Worker DNEL, long-term | inhalation | systemic | 480 mg/m ³ |
| | | Worker DNEL, acute | inhalation | systemic | 960 mg/m ³ |
| | | Worker DNEL, long-term | inhalation | local | 480 mg/m ³ |
| | | Worker DNEL, acute | inhalation | local | 960 mg/m ³ |
| | | Consumer DNEL, long-term | inhalation | systemic | 102,34 mg/m ³ |
| | | Consumer DNEL, acute | inhalation | systemic | 859,7 mg/m ³ |
| | | Consumer DNEL, long-term | inhalation | local | 102,34 mg/m ³ |
| | | Consumer DNEL, acute | inhalation | local | 859,7 mg/m ³ |

PNEC values

| CAS No | Substance | Environmental compartment | Value |
|----------|---------------------------------|--|--------------|
| 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 |
| 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 |

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8.2. Exposure controls



Appropriate engineering controls

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray.

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): Butyl caoutchouc (butyl rubber)

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. 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.

Breakthrough times and swelling properties of the material must be taken into consideration.

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: | Liquid |
| Colour: | black |
| Odour: | characteristic |
| Odour threshold: | not determined |

Changes in the physical state

| | |
|---|----------------|
| Melting point/freezing point: | not determined |
| Boiling point or initial boiling point and boiling range: | 79 °C |
| Softening point: | not determined |
| Flash point: | -4 °C |

Flammability

| | |
|---------------|----------------|
| Solid/liquid: | not applicable |
| Gas: | not applicable |

Explosive properties

The product is: not explosive.. In use, may form flammable/explosive vapour-air mixture.

| | |
|----------------------------|----------------|
| Lower explosion limits: | not determined |
| Upper explosion limits: | not determined |
| Auto-ignition temperature: | > 300 °C |

Self-ignition temperature

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

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| | |
|--|------------------------|
| Gas: | not applicable |
| Decomposition temperature: | not determined |
| pH-Value: | not determined |
| Viscosity / dynamic: | not determined |
| Viscosity / kinematic: | not determined |
| Water solubility: | Immiscible |
| Solubility in other solvents | |
| not determined | |
| Partition coefficient n-octanol/water: | not determined |
| Vapour pressure: | not determined |
| Density (at 20 °C): | 0,92 g/cm ³ |
| Relative vapour density: | not determined |
| Particle characteristics: | not applicable |

9.2. Other information**Information with regard to physical hazard classes**

Oxidizing properties
not determined

Other safety characteristics

Solvent content: 72,3 %
Evaporation rate: not determined

Further Information

No information available.

SECTION 10: Stability and reactivity**10.1. Reactivity**

No further relevant information available.

10.2. Chemical stability

No hazardous reaction when handled and stored according to provisions.

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 further relevant information available.

10.6. Hazardous decomposition products

No known hazardous decomposition products.

SECTION 11: Toxicological information**11.1. Information on hazard classes as defined in GB CLP Regulation****Acute toxicity**

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

ATEmix tested

| | Dose | Species | Source |
|---------------------------------|--------------|---------|--------|
| LD50, dermal | 150638 mg/kg | Rabbit | |
| LC50, inhalation (vapour) (4 h) | 129 mg/l | | |

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| CAS No | Chemical name | | | | |
|------------|--|---------------|-----------|--------|--------|
| | Exposure route | Dose | Species | Source | Method |
| 78-93-3 | butanone; ethyl methyl ketone | | | | |
| | oral | LD50 mg/kg | 3300 | Rat | |
| | dermal | LD50 mg/kg | 5000 | Rabbit | |
| | inhalation (4 h) vapour | LC50 | 12 mg/l | Rat | |
| 108-65-6 | 2-methoxy-1-methylethyl acetate | | | | |
| | oral | LD50 mg/kg | 8500 | Rat | |
| | inhalation (4 h) vapour | LC50 | 35,7 mg/l | Rat | |
| 28182-81-2 | Hexamethylene diisocyanate, oligomers | | | | |
| | oral | LD50 mg/kg | >5000 | Rat | |
| | inhalation (4 h) vapour | LC50 | 11 mg/l | | |
| | inhalation dust/mist | ATE | 1,5 mg/l | | |
| 123-86-4 | n-butyl acetate | | | | |
| | oral | LD50 mg/kg | 8800 | Rat | |
| | dermal | LD50 mg/kg | > 5000 | Rabbit | |
| | inhalation (4 h) dust/mist | LC50 | >21 mg/l | Rat | |
| 1330-20-7 | xylene | | | | |
| | dermal | ATE mg/kg | 1100 | | |
| | inhalation vapour | ATE | 11 mg/l | | |
| | inhalation dust/mist | ATE | 1,5 mg/l | | |
| 9016-87-9 | Diphenylmethanediisocyanate, isomeres and homologues | | | | |
| | oral | LD50 mg/kg | >10000 | Rat | |
| | dermal | LD50 mg/kg | >9400 | Rabbit | |
| | inhalation vapour | ATE | 11 mg/l | | |
| | inhalation dust/mist | ATE | 1,5 mg/l | | |

Irritation and corrosivity

Causes serious eye irritation.

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

Sensitising effects

Contains isocyanates. May produce an allergic reaction. May cause allergy or asthma symptoms or breathing difficulties if inhaled. (Diphenylmethanediisocyanate, isomeres and homologues)

May cause an allergic skin reaction. (Hexamethylene diisocyanate, oligomers; Diphenylmethanediisocyanate, isomeres and homologues)

Carcinogenic/mutagenic/toxic effects for reproduction

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

STOT-single exposure

May cause drowsiness or dizziness. (butanone; ethyl methyl ketone)

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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

No further relevant information available.

| CAS No | Chemical name | | | | | |
|------------|---------------------------------------|--------------|-----------|---------|-----------------------------------|--------|
| | Aquatic toxicity | Dose | [h] [d] | Species | Source | Method |
| 78-93-3 | butanone; ethyl methyl ketone | | | | | |
| | Acute fish toxicity | LC50 mg/l | 3220 | 96 h | fish | |
| | Acute crustacea toxicity | EC50 mg/l | 5000 | 48 h | | |
| 28182-81-2 | Hexamethylene diisocyanate, oligomers | | | | | |
| | Acute fish toxicity | LC50 mg/l | >100 | 96 h | | |
| | Acute crustacea toxicity | EC50 mg/l | >100 | 48 h | | |
| 123-86-4 | n-butyl acetate | | | | | |
| | Acute fish toxicity | LC50 | 62 mg/l | 96 h | Leuciscus idus (golden orfe) | |
| | Acute algae toxicity | ErC50 | 674 mg/l | 72 h | Desmodesmus subspicatus | |
| | Acute crustacea toxicity | EC50 | 44 mg/l | 48 h | Daphnia magna (Big water flea) | |

12.2. Persistence and degradability

No further relevant information available.

| CAS No | Chemical name | | | |
|----------|---|-------|----|--------|
| | Method | Value | d | Source |
| | Evaluation | | | |
| 108-65-6 | 2-methoxy-1-methylethyl acetate | | | |
| | OECD 302 B | >90 % | | |
| | 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). | | | |

12.3. Bioaccumulative potential

No further relevant information available.

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Partition coefficient n-octanol/water

| CAS No | Chemical name | Log Pow |
|----------|---------------------------------|---------|
| 108-65-6 | 2-methoxy-1-methylethyl acetate | 0,56 |
| 123-86-4 | n-butyl acetate | 2,3 |

12.4. Mobility in soil

No further relevant information available.

12.5. Results of PBT and vPvB assessment

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

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 further relevant information available.

Further information

There are no data available on the mixture itself.

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

080409 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU of adhesives and sealants (including waterproofing products); waste adhesives and sealants containing organic solvents or other hazardous substances; hazardous waste

Contaminated packaging

This material and its container must be disposed of as hazardous waste. Handle contaminated packages in the same way as the substance itself. Remove according to the regulations.

SECTION 14: Transport information

Land transport (ADR/RID)

| | |
|--|----------------|
| 14.1. UN number or ID number: | UN 1866 |
| 14.2. UN proper shipping name: | RESIN SOLUTION |
| 14.3. Transport hazard class(es): | 3 |
| 14.4. Packing group: | II |
| Hazard label: | 3 |



| | |
|--------------------------|------|
| Classification code: | F1 |
| Special Provisions: | 640D |
| Limited quantity: | 5 L |
| Excepted quantity: | E2 |
| Transport category: | 2 |
| Hazard No: | 33 |
| Tunnel restriction code: | D/E |

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Inland waterways transport (ADN)

14.1. UN number or ID number: UN 1866
14.2. UN proper shipping name: Resin solution
14.3. Transport hazard class(es): 3
14.4. Packing group: II
 Hazard label: 3



Classification code: F1
 Special Provisions: 640D
 Limited quantity: 5 L
 Excepted quantity: E2

Marine transport (IMDG)

14.1. UN number or ID number: UN 1866
14.2. UN proper shipping name: RESIN SOLUTION
14.3. Transport hazard class(es): 3
14.4. Packing group: II
 Hazard label: 3



Marine pollutant: no
 Special Provisions: -
 Limited quantity: 5 L
 Excepted quantity: E2
 EmS: F-E, S-E

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number or ID number: UN 1866
14.2. UN proper shipping name: RESIN SOLUTION
14.3. Transport hazard class(es): 3
14.4. Packing group: II
 Hazard label: 3



Special Provisions: A3
 Limited quantity Passenger: 1 L
 Passenger LQ: Y341
 Excepted quantity: E2
 IATA-packing instructions - Passenger: 353
 IATA-max. quantity - Passenger: 5 L
 IATA-packing instructions - Cargo: 364
 IATA-max. quantity - Cargo: 60 L

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

14.6. Special precautions for user

No information available.

14.7. Maritime transport in bulk according to IMO instruments

not applicable

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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 40, Entry 75

2004/42/EC (VOC): 72,34 %
665,5 g/l

Information according to 2012/18/EU (SEVESO III): P5c FLAMMABLE LIQUIDS

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 this substance a chemical safety assessment has not been carried out.

SECTION 16: Other information

Changes

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

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%

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

| Classification | Classification procedure |
|---------------------|--------------------------|
| Flam. Liq. 2; H225 | On basis of test data |
| Eye Irrit. 2; H319 | Calculation method |
| Resp. Sens. 1; H334 | |
| Skin Sens. 1; H317 | Calculation method |
| STOT SE 3; H336 | Calculation method |

Safety Data Sheet

according to UK REACH Regulation

DINITROL 538 PLUS

Revision date: 11.01.2022

Product code: 10730

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Relevant H and EUH statements (number and full text)

| | |
|--------|--|
| H225 | Highly flammable liquid and vapour. |
| H226 | Flammable liquid and vapour. |
| H312 | Harmful in contact with skin. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H319 | Causes serious eye irritation. |
| H332 | Harmful if inhaled. |
| H334 | May cause allergy or asthma symptoms or breathing difficulties if inhaled. |
| H335 | May cause respiratory irritation. |
| H336 | May cause drowsiness or dizziness. |
| H351 | Suspected of causing cancer. |
| H373 | May cause damage to organs through prolonged or repeated exposure. |
| EUH066 | Repeated exposure may cause skin dryness or cracking. |
| EUH204 | Contains isocyanates. May produce an allergic reaction. |

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.)