

Safety Data Sheet

according to 29 CFR 1910.1200(g)

DINITROL 4941 (1-20L)

Revision date: 04/13/2022

Product code: 20091

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1. Identification

Product identifier

DINITROL 4941 (1-20L)

Recommended use of the chemical and restrictions on use

Use of the substance/mixture

Anti-corrosive coating

Uses advised against

No further relevant information available.

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
e-mail: msds@dinol.com
Contact person: Labor
Responsible Department: msds@dinol.com

Telefax: + 49 (0) 5281 9829860

Supplier

Company name: DINOL U.S. Inc.
Street: 8500 Cotter Street, Lewis Center
Place: USA-43035 Ohio
Telephone: 740-548-1656
e-mail: info@dinolus.com
Internet: www.dinol.com

Telefax: 740-548-1657

Emergency phone number: 3E Company Emergency +1-866-404-4230

2. Hazard(s) identification

Classification of the chemical

29 CFR Part 1910.1200

Flammable liquids: Flam. Liq. 3

Specific target organ toxicity single exposure: STOT SE 3 (narcotic effects)

Specific target organ toxicity repeated or prolonged exposure: STOT RE 1

Label elements

29 CFR Part 1910.1200

Signal word: Danger

Pictograms:



Hazard statements

Flammable liquid and vapor

May cause drowsiness or dizziness

Causes damage to organs through prolonged or repeated exposure

Precautionary statements

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Keep container tightly closed.

Ground/bond container and receiving equipment.

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Use explosion-proof electrical/ventilating/lighting equipment.
 Use only non-sparking tools.
 Take precautionary measures against static discharge.
 Do not breathe dust/fume/gas/mist/vapors/spray.
 Wash hands thoroughly after handling.
 Do not eat, drink or smoke when using this product.
 Use only outdoors or in a well-ventilated area.
 Wear protective gloves/protective clothing/eye protection/face protection.
 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
 If inhaled: Remove person to fresh air and keep comfortable for breathing.
 Call a poison center/doctor if you feel unwell.
 Get medical advice/attention if you feel unwell.
 Keep container tightly closed.
 Store in a well-ventilated place. Keep cool.
 Store locked up.

Hazards not otherwise classified

No information available.

3. Composition/information on ingredients

Mixtures

Hazardous components

| CAS No | Components | Quantity |
|------------|---|----------|
| 64742-49-0 | Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics | 24.9 % |
| 64742-95-6 | Solvent naphtha (petroleum), light arom.; Low boiling point naphtha - unspecified | 10 % |
| 64742-82-1 | naphtha (petroleum), hydrodesulphurized heavy; Low boiling point hydrogen treated naphtha | 9.9 % |
| 108-32-7 | propylene carbonate | 2.9 % |

Further Information

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

4. First-aid measures

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

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

After contact with skin

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

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.

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Most important symptoms and effects, both acute and delayed

No further relevant information available.

Indication of any immediate medical attention and special treatment needed

No further relevant information available.

5. Fire-fighting measures**Extinguishing media****Suitable extinguishing media**

In case of fire, use sand, extinguishing powder or alcohol resistant foam.

Unsuitable extinguishing media

Full water jet

Specific hazards arising from the chemical

In case of fire may be liberated: Gases/vapors, toxic

Special protective equipment and precautions for fire-fighters

Wear respiratory protection.

Additional information

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

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

6. Accidental release measures**Personal precautions, protective equipment and emergency procedures****General advice**

Provide adequate ventilation.
Wear personal protection equipment.
Avoid contact with skin, eyes and clothes.
Avoid breathing dust/fume/gas/mist/vapors/spray.

For emergency responders

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

Environmental precautions

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

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.

Reference to other sections

Safe handling: see section 7
Personal protection equipment (PPE): see section 8
Disposal: see section 13

7. Handling and storage

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Precautions for safe handling

Advice on safe handling

Provide adequate ventilation as well as local exhaust at critical locations. Use only in well-ventilated areas.

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

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.

Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

No special measures are necessary.

Hints on joint storage

Not required.

Further information on storage conditions

Keep container tightly closed.

8. Exposure controls/personal protection

Control parameters

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

Recommended glove articles :

FKM (fluoro rubber), Breakthrough time:: 480 min.

NBR (Nitrile rubber), Breakthrough time:: 480 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

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9. Physical and chemical properties

Information on basic physical and chemical properties

| | |
|------------------|----------------|
| Physical state: | Liquid |
| Color: | black |
| Odor: | characteristic |
| Odour threshold: | not determined |

Test method

Changes in the physical state

| | |
|---|-----------------|
| Melting point/freezing point: | not determined |
| Boiling point or initial boiling point and boiling range: | 136 - 164 °C |
| Softening point: | not determined |
| Flash point: | 29 °C DIN 53213 |

Flammability

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

Explosive properties

not determined

| | |
|------------------------------------|----------------|
| Lower explosion limits: | 0,8 vol. % |
| Upper explosion limits: | 6 vol. % |
| Auto-ignition temperature: | > 200 °C |
| Decomposition temperature: | not determined |
| pH-Value: | not determined |
| Viscosity / dynamic: (at 20 °C) | 3500 mPa·s |
| Viscosity / kinematic: | not determined |
| Water solubility: | not applicable |

Solubility in other solvents

not determined

| | |
|--|----------------------------------|
| Partition coefficient n-octanol/water: | not determined |
| Vapor pressure: (at 20 °C) | 5 hPa |
| Vapor pressure: (at 50 °C) | 30 hPa |
| Density: | 1,03 g/cm ³ DIN 51757 |
| Relative vapour density: | not determined |
| Particle characteristics: | not applicable |

Other information

Information with regard to physical hazard classes

| | |
|------------------------|-------------------|
| Sustaining combustion: | No data available |
| Oxidizing properties | |
| not determined | |

Other safety characteristics

| | |
|------------------|--|
| Solvent content: | org. Lösemittel 38,8 % Wassergehalt 0,1 % |
|------------------|--|

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Solid content:

62,8 %

Further Information

No information available.

10. Stability and reactivity**Reactivity**

No further relevant information available.

Chemical stability

Stability: Stable

No known hazardous decomposition products.

Possibility of hazardous reactions

Hazardous reactions: Will not occur

No known hazardous decomposition products.

Conditions to avoid

No further relevant information available.

Incompatible materials

No further relevant information available.

Hazardous decomposition products

Carbon monoxide

11. Toxicological information**Information on toxicological effects****Acute toxicity**

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

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| CAS No | Components | | | | |
|------------|---|--------------------|---------|--------|--------|
| | Exposure route | Dose | Species | Source | Method |
| 64742-49-0 | Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics | | | | |
| | oral | LD50 4951 mg/kg | Rat | | |
| | dermal | LD50 5000 mg/kg | Rabbit | | |
| | inhalation (4 h) vapour | LC50 4951 mg/l | Rat | | |
| 64742-95-6 | Solvent naphtha (petroleum), light arom.; Low boiling point naphtha - unspecified | | | | |
| | oral | LD50 3492 mg/kg | Rat | | |
| | dermal | LD50 >3160 mg/kg | Rabbit | | |
| | inhalation vapour | LC50 >6193 mg/l | Rat | | |
| 64742-82-1 | naphtha (petroleum), hydrodesulphurized heavy; Low boiling point hydrogen treated naphtha | | | | |
| | oral | LD50 >15000 mg/kg | Rat | | |
| | dermal | LD50 3400 mg/kg | Rabbit | | |
| 108-32-7 | propylene carbonate | | | | |
| | oral | LD50 33520 mg/kg | Rat | GESTIS | |
| | dermal | LD50 > 20000 mg/kg | Rabbit | GESTIS | |

Irritation and corrosivity

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

Sensitizing effects

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

Carcinogenic/mutagenic/toxic effects for reproduction

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

Specific target organ toxicity (STOT) - single exposure

May cause drowsiness or dizziness (Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics)

Specific target organ toxicity (STOT) - repeated exposure

Causes damage to organs through prolonged or repeated exposure (naphtha (petroleum), hydrodesulphurized heavy; Low boiling point hydrogen treated naphtha)

Aspiration hazard

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

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.

12. Ecological information

Persistence and degradability

There are no data available on the mixture itself.

Bioaccumulative potential

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There are no data available on the mixture itself.

Mobility in soil

No further relevant information available.

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.

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.

13. Disposal considerations

Waste treatment methods

Disposal recommendations

Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.

Contaminated packaging

Dispose of waste according to applicable legislation.

14. Transport information

U.S. DOT 49 CFR 172.101

UN number or ID number:

UN 1139

Proper shipping name:

Coating solution

Transport hazard class(es):

3

Packing group:

III

Hazard label:

3



Marine transport (IMDG)

UN number or ID number:

UN 1139

UN proper shipping name:

COATING SOLUTION

Transport hazard class(es):

3

Packing group:

III

Hazard label:

3



Marine pollutant:

no

Special Provisions:

955

Limited quantity:

5 L

Excepted quantity:

E1

EmS:

F-E, S-E

Air transport (ICAO-TI/IATA-DGR)

UN number or ID number:

UN 1139

UN proper shipping name:

COATING SOLUTION

Transport hazard class(es):

3

Packing group:

III

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Hazard label:

3



Special Provisions:

A3

Limited quantity Passenger:

10 L

Passenger LQ:

Y344

Excepted quantity:

E1

IATA-packing instructions - Passenger:

355

IATA-max. quantity - Passenger:

60 L

IATA-packing instructions - Cargo:

366

IATA-max. quantity - Cargo:

220 L

Environmental hazards

ENVIRONMENTALLY HAZARDOUS:

No

Special precautions for user

not applicable

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

not applicable

Other applicable information

Transport classification ADR/IMDG is based on packaging >30ltr(IMDG), >450ltr(ADR).

For other packaging units different classification can apply.

15. Regulatory information

U.S. Regulations

National Inventory TSCA

Substance/product listed in the following inventories: TSCA

National regulatory information

SARA Section 311/312 Hazards:

Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics (64742-49-0): Fire hazard,

Immediate (acute) health hazard

Solvent naphtha (petroleum), light arom.; Low boiling point naphtha - unspecified (64742-95-6): Fire hazard,

Immediate (acute) health hazard

naphtha (petroleum), hydrodesulphurized heavy; Low boiling point hydrogen treated naphtha (64742-82-1):

Fire hazard, Immediate (acute) health hazard, Delayed (chronic) health hazard

propylene carbonate (108-32-7): Immediate (acute) health hazard

State Regulations

Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65, State of California)

This product can not expose you to chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

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

16. Other information

Hazardous Materials Information Label (HMIS)

Health:

0

Flammability:

3

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NFPA Hazard Ratings

Health: 0
Flammability: 3
Reactivity: 0
Unique Hazard:



Changes

Revision date: 13.04.2022
Revision No: 1,2

This data sheet contains changes from the previous version in section(s): 1,2,4,5,6,7,8,9,14,15.

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%

Other data

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.)