

# Safety Data Sheet

according to 29 CFR 1910.1200(g)

## DINITROL 4010 Spray

Revision date: 09/22/2021

Product code: 21703

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### 1. Identification

#### Product identifier

DINITROL 4010 Spray

#### 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 aerosols: Flam. Aerosol 1  
Gases under pressure: Compressed gas  
Aspiration hazard: Asp. Tox. 1  
Respiratory or skin sensitization: Skin Sens. 1  
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

Extremely flammable aerosol  
Contains gas under pressure; may explode if heated  
May be fatal if swallowed and enters airways  
May cause an allergic skin reaction

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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.

Do not spray on an open flame or other ignition source.

Pressurized container: Do not pierce or burn, even after use.

Do not breathe dust/fume/gas/mist/vapors/spray.

Do not eat, drink or smoke when using this product.

Use only outdoors or in a well-ventilated area.

Contaminated work clothing must not be allowed out of the workplace.

Wear protective gloves/protective clothing/eye protection/face protection.

If swallowed: Immediately call a poison center/doctor.

Do NOT induce vomiting.

If on skin: Wash with plenty of Water and soap.

If skin irritation or rash occurs: Get medical advice/attention.

Wash contaminated clothing before reuse.

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.

Store in a well-ventilated place. Keep container tightly closed.

Store locked up.

Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

### Hazards not otherwise classified

No information available.

## 3. Composition/information on ingredients

### Mixtures

#### Hazardous components

CAS No	Components	Quantity
64742-82-1	naphtha (petroleum), hydrodesulphurized heavy; Low boiling point hydrogen treated naphtha	17.5 %
61789-86-4	calcium sulfonate	17.5 %
64742-49-0	Naphtha (petroleum), hydrotreated light; Low boiling point hydrogen treated naphtha	17.5 %
64742-48-9	Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics	7 %

#### 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

Remove contaminated, saturated clothing immediately.

#### 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

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

#### After contact with eyes

After eye contact: Rinse immediately carefully and thoroughly with eye-bath or water. Consult an

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ophthalmologist.

**After ingestion**

If swallowed, rinse mouth with water (only if the person is conscious). Do NOT induce vomiting. Call a physician immediately.

**Most important symptoms and effects, both acute and delayed**

Disorientation Nausea, Dizziness, Headache.

**Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

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

Carbon dioxide (CO<sub>2</sub>), Foam, Extinguishing powder.

**Unsuitable extinguishing media**

High power water jet.

**Specific hazards arising from the chemical**

Flammable. Vapors may form explosive mixtures with air.

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

**Special protective equipment and precautions for fire-fighters**

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

**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**

Remove all sources of ignition. Do not breathe gas/fume/vapor/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment.

**Environmental precautions**

Do not allow uncontrolled discharge of product into the environment.

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.

**Methods and material for containment and cleaning up****Other information**

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. Provide adequate ventilation.

**Reference to other sections**

Safe handling: see section 7

Personal protection equipment (PPE): see section 8

Disposal: see section 13

**7. Handling and storage****Precautions for safe handling****Advice on safe handling**

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

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### Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking.  
Take precautionary measures against static discharges.  
Vapors may form explosive mixtures with air.

### 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

Keep container tightly closed. Keep locked up. Store in a place accessible by authorized persons only. Provide adequate ventilation as well as local exhaust 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

Not required.

#### Further information on storage conditions

Keep container tightly closed.

## 8. Exposure controls/personal protection

### Control parameters

#### Exposure limits

CAS No.	Substance	ppm	mg/m <sup>3</sup>	f/cc	Category	Origin
75-28-5	Isobutane	800	1900		TWA (8 h)	REL
106-97-8	n-Butane	800	1900		TWA (8 h)	REL
74-98-6	Propane	1000	1800		TWA (8 h)	PEL
		1000	1800		TWA (8 h)	REL

### 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.

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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: AX (short-term)

## 9. Physical and chemical properties

### Information on basic physical and chemical properties

Physical state:	Aerosol
Color:	transparent beige
Odor:	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:	-44,5 °C
Flash point:	< -20 °C

### Flammability

Solid/liquid:	not applicable
Gas:	not applicable

### Explosive properties

not determined

Lower explosion limits:	0,6 vol. %
Upper explosion limits:	10,9 vol. %
Auto-ignition temperature:	> 200 °C

### Self-ignition temperature

Solid:	not applicable
Gas:	not applicable

Decomposition temperature: not determined

pH-Value: not determined

Viscosity / dynamic: not determined

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) 8300 hPa

Density (at 20 °C): 0,736 g/cm³

Relative vapour density: not determined

### Other information

#### Information with regard to physical hazard classes

Sustaining combustion: No data available

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Oxidizing properties

Not oxidising.

### Other safety characteristics

Solvent separation test:

not determined

Solvent content:

70,2 %

Solid content:

30,7%

Evaporation rate:

not determined

### Further Information

No information available.

## 10. Stability and reactivity

### Reactivity

No further relevant information available.

### Chemical stability

Stability:

Stable

The product is stable under storage at normal ambient temperatures.

### Possibility of hazardous reactions

Hazardous reactions:

Will not occur

No known hazardous reactions.

### Conditions to avoid

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Vapors may form explosive mixtures with air.

### Incompatible materials

Oxidizing agent, strong

### Hazardous decomposition products

Carbon monoxide

## 11. Toxicological information

### Information on toxicological effects

#### Acute toxicity

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

CAS No	Components				
	Exposure route	Dose	Species	Source	Method
64742-48-9	Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics				
	oral	LD50 >5000 mg/kg	Rat		
	dermal	LD50 >3000 mg/kg	Rat		
	inhalation (4 h) vapour	LC50 5000 mg/l	Rat		

#### Irritation and corrosivity

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

#### Sensitizing effects

May cause an allergic skin reaction (calcium sulfonate)

#### Carcinogenic/mutagenic/toxic effects for reproduction

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

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### Specific target organ toxicity (STOT) - single exposure

May cause drowsiness or dizziness (Naphtha (petroleum), hydrotreated light; Low boiling point hydrogen treated naphtha)

### 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)

Carcinogenicity (OSHA): No ingredient of this mixture is listed.

Carcinogenicity (IARC): No ingredient of this mixture is listed.

Carcinogenicity (NTP): No ingredient of this mixture is listed.

### Aspiration hazard

May be fatal if swallowed and enters airways

### Further information

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

## 12. Ecological information

### Persistence and degradability

The product has not been tested.

### Bioaccumulative potential

The product has not been tested.

### Mobility in soil

The product has not been tested.

### 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. Do not allow to enter into soil/subsoil.

## 13. Disposal considerations

### Waste treatment methods

#### Disposal recommendations

Dispose of waste according to applicable legislation. Do not mix with other wastes. Do not allow to enter into surface water or drains.

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

#### Contaminated packaging

Remove according to the regulations.

## 14. Transport information

### U.S. DOT 49 CFR 172.101

#### UN number or ID number:

UN 1950

#### Proper shipping name:

Coating solution

#### Transport hazard class(es):

2

Hazard label:

2.1



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### Marine transport (IMDG)

**UN number or ID number:** UN 1950  
**UN proper shipping name:** AEROSOLS  
**Transport hazard class(es):** 2.1  
**Packing group:** -  
Hazard label: 2.1



Marine pollutant: no  
Limited quantity: 1000 mL  
Excepted quantity: E0  
EmS: F-D, S-U

### Air transport (ICAO-TI/IATA-DGR)

**UN number or ID number:** UN 1950  
**UN proper shipping name:** AEROSOLS, FLAMMABLE  
**Transport hazard class(es):** 2.1  
**Packing group:** -  
Hazard label: 2.1



Passenger LQ: Y203  
Excepted quantity: E0

### Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

### Special precautions for user

Warning : gas

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

not applicable

### Other applicable information

SW1 Protected from sources of heat. SW22 For AEROSOLS with a maximum capacity of 1litre: Category A. For AEROSOLS with a capacity above 1 litre: Category B. For WASTE AEROSOLS: Category C, Clear of living quarters.  
SG69 For AEROSOLS with a maximum capacity of 1litre: 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.

## 15. Regulatory information

### U.S. Regulations

#### National Inventory TSCA

All components of the product are publicly listed or excluded.

#### National regulatory information

SARA Section 311/312 Hazards:

naphtha (petroleum), hydrosulphurized heavy; Low boiling point hydrogen treated naphtha (64742-82-1):  
Fire hazard, Delayed (chronic) health hazard  
calcium sulfonate (61789-86-4): Immediate (acute) health hazard  
Naphtha (petroleum), hydrotreated light; Low boiling point hydrogen treated naphtha (64742-49-0): Fire hazard, Immediate (acute) health hazard



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Propane (74-98-6): Fire hazard, Sudden release of pressure  
 Butane (106-97-8): Fire hazard, Sudden release of pressure  
 Isobutane (75-28-5): Fire hazard, Sudden release of pressure  
 Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics (64742-48-9): Fire hazard,  
 Immediate (acute) health hazard  
 Clean Air Act Section 112(r):  
 Propane (74-98-6): Threshold quantities = 10,000 lbs.  
 Butane (106-97-8): Threshold quantities = 10,000 lbs.  
 Isobutane (75-28-5): Threshold quantities = 10,000 lbs.

#### 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: 4  
 Physical Hazard: 3

##### NFPA Hazard Ratings

Health: 0  
 Flammability: 4  
 Reactivity: 3  
 Unique Hazard: none



##### Changes

Revision date: 22.09.2021  
 Revision No: 1,4

This data sheet contains changes from the previous version in section(s): 1,2,10,11.

##### 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.)*