

DINITROL 4010

Revision date: 02/01/2021

Product code: 21614

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1. Identification

Product identifier DINITROL 4010

Recommended use of the chemical and restrictions on use

Use of the substance/mixture

Anti-corrosive coating

Details of the supplier of the safety data sheet

Manufacturer

	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	
	Responsible Department:	msds@dinol.com	
	Supplier		
	Company name:	DINOL U.S. Inc.	
	Street:	8520 Cotter Street, Lewis Center	
	Place:	USA-43035 Ohio	
	Telephone:	740-548-1656	Telefax:740-548-1657
	e-mail:	info@dinolus.com	
	Internet:	www.dinol.com	
E	mergency 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 Respiratory or skin sensitization: Skin Sens. 1 Specific target organ toxicity single exposure: STOT SE 3 (narcotic effects)

Label elements

29 CFR Part 1910.1200

Signal word: Warning

Pictograms:



Hazard statements

Flammable liquid and vapor May cause an allergic skin reaction May cause drowsiness or dizziness

Precautionary statements

Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools.



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Take precautionary measures against static discharge. Do not breathe dust/fume/gas/mist/vapors/spray. Wash water thoroughly after handling. 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 on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. 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. Keep container tightly closed. Store in a well-ventilated place. Keep cool. Store locked up.

3. Composition/information on ingredients

Mixtures

Hazardous components

CAS No	Components	Quantity
	Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)	24.9 %
	Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics	24.9 %
61789-86-4	calcium sulfonate	24.9 %
64742-48-9	Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics	9.9 %
1474044-79-5	Naphthalenesulfonic acid, di-C9-rich C8-10-branched alkyl derivs., calcium salts	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

Remove contaminated, saturated clothing immediately.

After inhalation

Provide fresh air. If breathing is irregular or stopped, administer artificial respiration. Medical treatment necessary. If unconscious 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 ophthalmologist.

After ingestion

If swallowed, rinse mouth with water (only if the person is conscious). Call a physician immediately.

Most important symptoms and effects, both acute and delayed

Nausea, Drowsiness, Headache.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.



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5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media

Carbon dioxide (CO2), Foam, Extinguishing powder.

Unsuitable extinguishing media

High power water jet.

Specific hazards arising from the chemical

Flammable. Vapors may form explosive mixtures with air.

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. Supress gases/vapours/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 measures

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

Environmental precautions

Do not allow uncontrolled discharge of product into the environment.

Methods and material for containment and cleaning up

Other information

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.

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/vapour/spray.

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

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 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.

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Hints on joint storage

Not required.

8. Exposure controls/personal protection

Control parameters

Exposure controls



Appropriate engineering controls

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

Individual protection measures, such as personal protective equipment

Eye/face protection

Eye glasses with side protection (DIN EN 166)

Hand protection

Recommended glove articles :

NBR (Nitrile rubber) - (> = 0,12 mm), Breakthrough time (maximum wearing 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

9. Physical and chemical properties

Information on basic physical and chemical properties

Physical state: Color: Odor: Odour threshold:	Liquid transparent beige characteristic not determined	
Changes in the physical state Melting point/freezing point: Boiling point or initial boiling point and boiling range:		not determined 145 °C
Flash point: Flammability Solid/liquid: Gas:		29 °C not applicable not applicable
Lower explosion limits: Upper explosion limits:		0,7 6,5
Auto-ignition temperature: Self-ignition temperature		> 200 °C

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Solid: Gas:	not applicable not applicable	
Decomposition temperature:	not determined	
pH-Value:	not determined	
Viscosity / dynamic:	not determined	
Flow time: (at 20 °C)	22	
Water solubility:	The study does not need to be conducted because the substance is known to be insoluble in water.	
Partition coefficient n-octanol/water:	not determined	
Vapor pressure: (at 20 °C)	5 hPa	
Density (at 20 °C):	0,89 g/cm³	
Relative vapour density:	not determined	
Other information		
Information with regard to physical hazard Sustaining combustion:	classes No data available	
Other safety characteristics		
Solvent separation test:	not determined	
Solvent content:	52,5 %	
Solid content:	49,0 %	
Evaporation rate:	not determined	
Further Information		
No information available.		
10. Stability and reactivity		
Reactivity No further relevant information available.		
Chemical stability		
	Stable	
The product is stable under storage at no	rmal ambient temperatures.	
Possibility of hazardous reactions		
	Will not occur	
No known hazardous reactions.		
Conditions to avoid Keep away from sources of heat (e.g. hot mixtures with air.	surfaces), sparks and open flames. Vapors may f	orm explosive
Incompatible materials No information available.		
Hazardous decomposition products Carbon monoxide		
Carbon monoxide		

Information on toxicological effects



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Acute toxicity

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

CAS No	Components				
	Exposure route	Dose	Species	Source	Method
Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)					
	oral	LD50 >6500 mg/kg	Rat		
	dermal	LD50 >3000 mg/kg	Rat		
	Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics				
	oral	LD50 4951 mg/kg	Rat		
	dermal	LD50 > 5000 mg/kg	Rat		
	inhalation (4 h) vapour	LC50 4951 m	g/I 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.

Specific target organ toxicity (STOT) - single exposure

May cause drowsiness or dizziness (Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%); Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics)

Specific target organ toxicity (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.

Additional information on tests

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

Further information

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

12. Ecological information

Ecotoxicity

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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.

Other adverse effects

No 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.



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13. Disposal considerations

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:

RCRA Hazardous wastes (Resource Conservation and Recovery Act)

None

Contaminated packaging

Remove according to the regulations.

14. Transport information

US DOT 49 CFR 172.101					
UN/ID number:	UN 1139				
Proper shipping name:	Coating solution				
<u>Transport hazard class(es):</u>	3				
Packing group:	III				
Hazard label:	3				
	3				
Marine transport (IMDG)					
<u>UN number:</u>	UN 1139				
UN proper shipping name:	COATING SOLUTION				
<u>Transport hazard class(es):</u>	3				
Packing group:	III				
Hazard label:	3				
Marine pollutant:	no				
Special Provisions:	955				
Limited quantity: Excepted quantity:	5 L E1				
EnS:	F-E, S-E				
Air transport (ICAO-TI/IATA-DGR)					
<u>UN number:</u>	UN 1139				
UN proper shipping name:	COATING SOLUTION				
Transport hazard class(es):	3				
Packing group:	III				
Hazard label:	3				
Special Provisions:	A3				
Limited quantity Passenger:	10 L				



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Passenger LQ: Excepted quantity:	Y344 E1		
IATA-packing instructions - Passenger: IATA-max. quantity - Passenger: IATA-packing instructions - Cargo: IATA-max. quantity - Cargo:		355 60 L 366 220 L	
Environmental hazards			
ENVIRONMENTALLY HAZARDOUS:	No		
Special precautions for user Warning : Elammable liquids			

Warning : Flammable liquids

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

not applicable

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-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) (-): Fire hazard, Immediate (acute) health hazard, Delayed (chronic) health hazard

Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics (-): Fire hazard, Delayed (chronic) health hazard,

Immediate (acute) health hazard

calcium sulfonate (61789-86-4): Immediate (acute) health hazard

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics (64742-48-9): Fire hazard, Immediate (acute) health hazard

Naphthalenesulfonic acid, di-C9-rich C8-10-branched alkyl derivs., calcium salts (1474044-79-5): 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.

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/none

16. Other information

Hazardous Materials Information Label (HMIS)					
Health:	0				
Flammability:	3				
Physical Hazard:	0				
NFPA Hazard Ratings					
Health:	0				
Flammability:	3				
Reactivity:	0				
Unique Hazard:	none/none				
Changes					
Revision date:	02/01/2021				
Revision No:	1,2				





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This data sheet contains changes from the previous version in section(s): 3,8,9,14,15.

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.)