

DINITROL 4010

Revision date: 12/18/2023

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:	8500 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	
<u>E</u>	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 Aspiration hazard: Asp. Tox. 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



Flammable liquid and vapor May be fatal if swallowed and enters airways 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.

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 swallowed: Immediately call a poison center/doctor.

Do NOT induce vomiting.

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.

In case of fire: Use water to extinguish.

Keep container tightly closed.

Store in a well-ventilated place. Keep cool.

Store locked up.

Hazards not otherwise classified

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

3. Composition/information on ingredients

Mixtures

Hazardous components

CAS No	S No Components	
	Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)	10 - < 25 %
1174921-73-3	Hydrocarbons, C9-10, <2% aromatics	10 - < 25 %
	Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics	10 - < 25 %
61789-86-4	calcium sulfonate	5 - < 10 %
	calcium bis (di C8-C10, branched, C9 rich, alkylnaphthalenesulphonate)	1 - < 3 %

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 ophthalmologist.

After ingestion

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



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Most important symptoms and effects, both acute and delayed

Nausea, Dizziness, Headache.

Indication of any immediate medical attention and special treatment needed Treat symptomatically.

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/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.

For emergency responders

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

Environmental precautions

Do not allow uncontrolled discharge of product into the environment.

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

Precautions for safe handling



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Advice on safe handling

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

Hints on joint storage

Not required.

Further information on storage conditions

No information available.

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 (DIN EN 166)

Hand protection

Tested protective gloves must be worn (EN ISO 374):

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

NBR (Nitrile rubber) penetration time (maximum wearing period): 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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Test method

not applicable

not determined not determined

not determined

insoluble in water.

not determined

5 hPa

30 hPa

0,89 g/cm³

not determined

not applicable

0,7 vol. %

6,5 vol. % 29 °C

> 200 °C



Safety Data Sheet

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Thermal hazards No information available.						
Environmental exposure controls No information available.						
9. Physical and chemical properties						
Information on basic physical and chemic	Information on basic physical and chemical properties					
Physical state:	Liquid					
Color:	light brown					
Odor:	characteristic					
Odour threshold:	not determined					
Melting point/freezing point:		not determined				
Boiling point or initial boiling point and		136 - 164 °C				

boiling range: Flammability: Lower explosion limits: Upper explosion limits: Flash point: Auto-ignition temperature: Decomposition temperature: pH-Value: Viscosity / kinematic: Water solubility: The study does not need to be conducted because the substance is known to be Solubility in other solvents

not determined Partition coefficient n-octanol/water: Vapor pressure: (at 20 °C) Vapor pressure: (at 50 °C) Density (at 20 °C): Relative vapour density: Particle characteristics:

Other information

Information with regard to physical hazard classes Explosive properties not determined Sustaining combustion: No data available Self-ignition temperature Solid: not applicable Gas: not applicable Oxidizing properties not determined Other safety characteristics Evaporation rate: Solvent separation test: Solvent content: Solid content:



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Softening point: Viscosity / dynamic: Flow time:

(at 20 °C)

Further Information

No information available

10. Stability and reactivity

Reactivity

No further relevant information available.

Chemical stability

Stability:

Stable

Will not occur

The product is stable under storage at normal ambient temperatures.

Possibility of hazardous reactions

Hazardous reactions:

No known hazardous reactions.

Conditions to avoid

No further relevant information available.

Incompatible materials

No further relevant information available.

Hazardous decomposition products

Carbon monoxide

11. Toxicological information

Route(s) of Entry

No information available.

Information on toxicological effects

Acute toxicity

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

ATEmix calculated

ATE (oral) 14267 mg/kg; ATE (dermal) 7184 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l

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not determined not determined 22 4 DIN EN ISO 2431



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CAS No	Components						
	Exposure route	Dose		Species	Source	Method	
	Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cy			clics, aromatics (2-25%)			
	oral	LD50 > mg/kg	>15000	Rat			
	dermal	LD50 > mg/kg	>3400	Rat			
1174921-73- 3							
	oral	LD50 4 mg/kg	4951	Rat			
	dermal	LD50 > mg/kg	> 5000	Rabbit			
	inhalation (4 h) vapour	LC50 4	4951 mg/l	Rat			
	Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics						
	oral	LD50 > mg/kg	> 5000	Rat			
	dermal	LD50 > mg/kg	> 5000	Rabbit			
	inhalation (4 h) vapour	LC50 5	5000 mg/l	Rat			
61789-86-4	calcium sulfonate						
	oral	LD50 5 mg/kg	5000	Rat			
	dermal	LD50 > mg/kg	> 2000	Rat			
	calcium bis (di C8-C10, branched, C9 rich, alkylnaphthalenesulphonate)						
	oral	LD50 > mg/kg	>5000	Rat			
	dermal	LD50 > mg/kg	> 20000	Rabbit			
	inhalation (4 h) vapour	LC50 >	> 18 mg/l	Rat			

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-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%); Hydrocarbons, C9-10, <2% aromatics; Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics)

Specific target organ toxicity (STOT) - repeated exposure

Causes damage to organs through prolonged or repeated exposure (Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%))

Aspiration hazard

May be fatal if swallowed and enters airways

Specific effects in experiment on an animal

No information available.



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Additional information on tests

No information available.

Practical experience

No information available.

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

There are no data available on the mixture itself.

Mobility in soil

There are no data available on the mixture itself.

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 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. 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

U.S. DOT 49 CFR 172.101

<u>UN number or ID number:</u>		
Proper shipping name:		
Transport hazard class(es):		
Packing group:		
Hazard label:		



UN 1139

UN 1139

UN number or ID number:

Marine transport (IMDG)



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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:					
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					
<u>Special precautions for user</u> Warning : Flammable liquids					
Transport in bulk according to Annex II of M	APPOL 72/79 and the IPC Code				
not applicable	ARFOL 73/78 and the IBC Code				
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:					
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, C9-10, <2% aromatics (1174921-73-3): Fire hazard, Immediate (acute) health hazard					
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics (-): Fire hazard, Immediate (acute)					
health hazard	health hazard				

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

calcium bis (di C8-C10, branched, C9 rich, alkylnaphthalenesulphonate) (-): Immediate (acute) health hazard



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DINOL GmbH

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.

Directive 2004/42/EC on VOC in	51,94 %
paints and varnishes:	462,2 g/l

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 Identification System (HMIS)				
Health:	0			
Flammability:	3			
Physical Hazard:	0			
NFPA Hazard Ratings				
Health:	0			
Flammability:	3			
Reactivity:	0			
Unique Hazard:	none			
Changes				
Revision date:	12/18/2023			
Revision No:	1,6			



This data sheet contains changes from the previous version in section(s): 2,3,6,7,8,9,10,11,12,16.

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 relevant ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)