

according to UK REACH Regulation

#### **DINITROL 4010**

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### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

**DINITROL 4010** 

UFI: 02RN-63CE-Y006-5T5P

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

#### Use of the substance/mixture

Anti-corrosive coating

### 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** Giftnotruf Berlin: +49 30 30686 700 (Beratung in Deutsch und Englisch)

number:

#### **SECTION 2: Hazards identification**

### 2.1. Classification of the substance or mixture

### **GB CLP Regulation**

Flam. Liq. 3; H226 Asp. Tox. 1; H304 Skin Sens. 1; H317 STOT SE 3; H336 STOT RE 1; H372 Aquatic Chronic 3; H412

Full text of hazard statements: see SECTION 16.

# 2.2. Label elements

### **GB CLP Regulation**

## Hazard components for labelling

naphtha (petroleum), hydrodesulphurized heavy; Low boiling point hydrogen treated naphtha calcium sulfonate

Naphtha (petroleum), hydrotreated light; Low boiling point hydrogen treated naphtha

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics

Signal word: Danger

Pictograms:







### **Hazard statements**

H226 Flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H317 May cause an allergic skin reaction.
H336 May cause drowsiness or dizziness.

H372 Causes damage to organs through prolonged or repeated exposure.

H412 Harmful to aquatic life with long lasting effects.



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### **Precautionary statements**

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

smoking.

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing

protection.

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.

P405 Store locked up.

### Special labelling of certain mixtures

EUH066 Repeated exposure may cause skin dryness or cracking.

Restricted to professional users.

Labelling of packages where the contents do not exceed 125 ml

Signal word: Danger

Pictograms:







#### **Hazard statements**

H304-H317-H372-H412

### **Precautionary statements**

P280-P405

### 2.3. Other hazards

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

### **SECTION 3: Composition/information on ingredients**

### 3.2. Mixtures

### **Hazardous components**

CAS No	Chemical name				
	EC No	Index No	REACH No		
	Classification (GB CLP Regulation)	Classification (GB CLP Regulation)			
64742-82-1	naphtha (petroleum), hydrodesulphurized heavy; Low boiling point hydrogen treated naphtha				
	265-185-4				
	Flam. Liq. 3, STOT RE 1, Asp. Tox	. 1; H226 H372 H304 EUH066			
61789-86-4	calcium sulfonate		10 - 25 %		
	263-093-9		01-2119488992-18		
	Skin Sens. 1B; H317				
64742-49-0	Naphtha (petroleum), hydrotreated light; Low boiling point hydrogen treated naphtha				
	265-151-9				
	Flam. Liq. 3, STOT SE 3, Asp. Tox. 1, Aquatic Chronic 3; H226 H336 H304 H412				
64742-48-9	Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics				
	919-857-5	649-327-00-6	01-2119463258-33		
	Flam. Liq. 3, STOT SE 3, Asp. Tox				

Full text of H and EUH statements: see section 16.

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### Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity	
	Specific Conc. Limits, M-factors and ATE			
61789-86-4	263-093-9	calcium sulfonate	10 - 25 %	
	dermal: LD50 = > 2000 mg/kg; oral: LD50 = 5000 mg/kg Skin Sens. 1B; H317: >= 10 - 100			
64742-48-9	919-857-5	Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics	5 - 10 %	
	inhalation: LC50 = 5000 mg/l (vapours); dermal: LD50 = >3000 mg/kg; oral: LD50 = >5000 mg/kg			

#### **Further Information**

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

### **SECTION 4: First aid measures**

### 4.1. 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.

### 4.2. Most important symptoms and effects, both acute and delayed

Nausea, Dizziness, Headache.

### 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), Foam, Extinguishing powder.

### Unsuitable extinguishing media

High power water jet.

### 5.2. Special hazards arising from the substance or mixture

Flammable. Vapours can form explosive mixtures with air.

#### 5.3. Advice for firefighters

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

#### Additional information

Use water spray jet to protect personnel and to cool endangered containers. Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

### **SECTION 6: Accidental release measures**

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### 6.1. Personal precautions, protective equipment and emergency procedures

#### General advice

Remove all sources of ignition. Do not breathe 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.

### 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.

Do not rinse down with water.

#### 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.

#### 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. 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. Vapours can 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 dripk

# 7.2. 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.

## 7.3. Specific end use(s)

Anti-corrosive coating

### **SECTION 8: Exposure controls/personal protection**

## 8.1. Control parameters



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### **DNEL/DMEL values**

CAS No	Substance					
DNEL type		Exposure route	Effect	Value		
61789-86-4	calcium sulfonate	calcium sulfonate				
Worker DNEL, long-term		dermal	systemic	3,33 mg/kg bw/day		
Worker DNEL	, long-term	dermal	local	1,03 mg/cm <sup>2</sup>		
Consumer DN	IEL, long-term	inhalation	systemic	2,9 mg/m³		
Consumer DNEL, long-term		dermal	systemic	1,667 mg/kg bw/day		
Consumer DN	IEL, long-term	dermal	local	0,513 mg/cm <sup>2</sup>		
Consumer DNEL, long-term		oral	systemic	0,8333 mg/kg bw/day		
Worker DNEL, long-term		inhalation	systemic	11,75 mg/m³		
64742-48-9 Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics						
Worker DNEL, long-term		dermal	systemic	300 mg/kg bw/day		
Worker DNEL, long-term		inhalation	systemic	1500 mg/m³		
Consumer DNEL, long-term		inhalation	systemic	900 mg/m³		
Consumer DNEL, long-term		dermal	systemic	300 mg/kg bw/day		
Consumer DNEL, long-term		oral	systemic	300 mg/kg bw/day		
,						

#### **PNEC values**

CAS No	Substance		
Environmenta	Environmental compartment		
61789-86-4 calcium sulfonate			
Freshwater		1 mg/l	
Marine water		1 mg/l	
Freshwater s	ediment	226000000 mg/kg	
Marine sedim	nent	226000000 mg/kg	
Secondary poisoning		16667 mg/kg	
Micro-organis	Micro-organisms in sewage treatment plants (STP)		
Soil		271000000 mg/kg	

# 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)



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### Hand protection

Recommended glove articles:

NBR (Nitrile rubber) - (> = 0,12 mm), 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

#### Thermal hazards

No information available.

#### **Environmental exposure controls**

No information available.

# **SECTION 9: Physical and chemical properties**

### 9.1. Information on basic physical and chemical properties

Physical state: Liquid

Colour: transparent beige
Odour: characteristic
Odour threshold: not determined

# Changes in the physical state

Melting point/freezing point:

Boiling point or initial boiling point and

145 °C

boiling range:

Softening point: not determined Flash point: 29 °C

**Flammability** 

Solid/liquid: not applicable
Gas: not applicable

**Explosive properties** 

not determined

Lower explosion limits: 0,7 vol. %
Upper explosion limits: 6,5 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
Flow time: 22
(at 20 °C)



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Water solubility: The study does not need to be conducted

because the substance is known to be

insoluble in water.

Solubility in other solvents

not determined

Partition coefficient n-octanol/water: not determined

Vapour pressure: 5 hPa

(at 20 °C)

Density (at 20 °C): 0,89 g/cm³
Relative vapour density: not determined
Particle characteristics: not applicable

9.2. Other information

Information with regard to physical hazard classes

Sustaining combustion: No data available

Oxidizing properties not determined

Other safety characteristics

Solvent separation test:

Solvent content:

52,5 %

Solid content:

49,0 %

Evaporation rate:

not determined

not determined

**Further Information**No information available.

### **SECTION 10: Stability and reactivity**

## 10.1. Reactivity

No further relevant information available.

### 10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

# 10.3. Possibility of hazardous reactions

No known hazardous reactions.

#### 10.4. Conditions to avoid

No further relevant information available.

# 10.5. Incompatible materials

Oxidising agent, strong

### 10.6. Hazardous decomposition products

Hazardous decomposition products: none

# **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.



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CAS No	Chemical name					
	Exposure route	Dose		Species	Source	Method
61789-86-4	calcium sulfonate					
	oral	LD50 mg/kg	5000	Rat		
	dermal	LD50 mg/kg	> 2000	Rat		
64742-48-9	Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics					
	oral	LD50 mg/kg	>5000	Rat		
	dermal	LD50 mg/kg	>3000	Rat		
	inhalation (4 h) vapour	LC50	5000 mg/l	Rat		

#### Irritation and corrosivity

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

### Sensitising 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.

#### STOT-single exposure

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

### STOT-repeated exposure

Repeated exposure may cause skin dryness or cracking. Causes damage to organs through prolonged or repeated exposure. (naphtha (petroleum), hydrodesulphurized heavy; Low boiling point hydrogen treated naphtha)

### **Aspiration hazard**

May be fatal if swallowed and enters airways.

### Additional information on tests

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

# 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

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

# 12.2. Persistence and degradability

The product has not been tested.

CAS No	Chemical name				
	Method	Value	d	Source	
	Evaluation				
64742-48-9	Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics				
		80%			
	Readily biodegradable (according to OECD criteria).				

# 12.3. Bioaccumulative potential



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The product has not been tested.

### 12.4. Mobility in soil

The product has not been tested.

### 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 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.

# **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

080111 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF

COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU and removal of paint and varnish; waste paint and varnish

containing organic solvents or other hazardous substances; hazardous waste

### List of Wastes Code - contaminated packaging

080111 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF

COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU and removal of paint and varnish; waste paint and varnish

containing organic solvents or other hazardous substances; hazardous waste

### Contaminated packaging

Remove according to the regulations.

# **SECTION 14: Transport information**

## Land transport (ADR/RID)

**14.1. UN number or ID number:** UN 1139

14.2. UN proper shipping name: COATING SOLUTION

14.3. Transport hazard class(es):314.4. Packing group:IIIHazard label:3



Classification code: F1
Limited quantity: 5 L
Excepted quantity: E1
Transport category: 3
Hazard No: 30
Tunnel restriction code: D/E



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Inland waterways transport (ADN)

14.1. UN number or ID number:UN 113914.2. UN proper shipping name:Coating solution

14.3. Transport hazard class(es):314.4. Packing group:IIIHazard label:3



Classification code: F1
Limited quantity: 5 L
Excepted quantity: E1

Marine transport (IMDG)

14.1. UN number or ID number: UN 1139

14.2. UN proper shipping name: COATING SOLUTION

14.3. Transport hazard class(es):314.4. Packing group:IIIHazard label:3



Marine pollutant:

Special Provisions:

Limited quantity:

Excepted quantity:

EmS:

no

955

L

5 L

E1

EnS:

F-E, S-E

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number or ID number: UN 1139

14.2. UN proper shipping name: COATING SOLUTION

14.3. Transport hazard class(es):314.4. Packing group:IIIHazard label:3



Special Provisions:

Limited quantity Passenger:

Passenger LQ:

Y344

Excepted quantity:

E1

IATA-packing instructions - Passenger:355IATA-max. quantity - Passenger:60 LIATA-packing instructions - Cargo:366IATA-max. quantity - Cargo:220 L

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

14.6. Special precautions for user

Warning: Flammable liquids

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 29, Entry 40

2004/42/EC (VOC): 52,48 %

467,0 g/l

Subcategory according to Directive

2004/42/EC:

Special finishes - All types, VOC limit value: 840 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): 2 - obviously 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 the following substances of this mixture a chemical safety assessment has been carried out: Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics

## **SECTION 16: Other information**

#### Changes

This data sheet contains changes from the previous version in section(s): 2,8,9,10,15.

### 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%



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

Classification	Classification procedure
Flam. Liq. 3; H226	On basis of test data
Asp. Tox. 1; H304	Calculation method
Skin Sens. 1; H317	Calculation method
STOT SE 3; H336	Calculation method
STOT RE 1; H372	Calculation method
Aquatic Chronic 3; H412	Calculation method

### Relevant H and EUH statements (number and full text)

H226 Flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H317 May cause an allergic skin reaction.
H336 May cause drowsiness or dizziness.

H372 Causes damage to organs through prolonged or repeated exposure.

H412 Harmful to aquatic life with long lasting effects.

EUH066 Repeated exposure may cause skin dryness or cracking.

### **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.)