

**Safety Data Sheet**

according to UK REACH Regulation

**DINITROL 1000**

Revision date: 17.04.2024

Product code: 21607

Page 1 of 11

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

DINITROL 1000

UFI: PPD9-JMET-E008-8AV2

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

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****GB CLP Regulation**

Flam. Liq. 3; H226  
Asp. Tox. 1; H304  
STOT SE 3; H336

Full text of hazard statements: see SECTION 16.

**2.2. Label elements****GB CLP Regulation****Hazard components for labelling**

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, &lt;2% aromatics

**Signal word:** Danger**Pictograms:****Hazard statements**

H226 Flammable liquid and vapour.  
H304 May be fatal if swallowed and enters airways.  
H336 May cause drowsiness or dizziness.

**Precautionary statements**

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P243 Take action to prevent static discharges.  
P280 Wear protective gloves and eye protection/face protection.  
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.  
P331 Do NOT induce vomiting.  
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.

**Safety Data Sheet**

according to UK REACH Regulation

**DINITROL 1000**

Revision date: 17.04.2024

Product code: 21607

Page 2 of 11

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.  
 EUH208 Contains calcium sulfonate. May produce an allergic reaction.  
 Restricted to professional users.

**Labelling of packages where the contents do not exceed 125 ml**
**Signal word:** Danger

**Pictograms:**

**Hazard statements**

H304

**Precautionary statements**

P301+P310-P331-P405

**2.3. Other hazards**

No information available.

**SECTION 3: Composition/information on ingredients**
**3.2. Mixtures**
**Relevant ingredients**

CAS No	Chemical name	Quantity
	EC No	Index No
	REACH No	
	Classification (GB CLP Regulation)	
	Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics	55 - < 60 %
	919-857-5	01-2119463258-33
	Flam. Liq. 3, STOT SE 3, Asp. Tox. 1; H226 H336 H304 EUH066	
61789-86-4	calcium sulfonate	1 - < 5 %
	263-093-9	01-2119488992-18
	Skin Sens. 1B; H317	

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

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

CAS No	EC No	Chemical name	Quantity
		Specific Conc. Limits, M-factors and ATE	
	919-857-5	Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics	55 - < 60 %
		inhalation: LC50 = 5000 mg/l (vapours); dermal: LD50 = > 5000 mg/kg; oral: LD50 = > 5000 mg/kg	
61789-86-4	263-093-9	calcium sulfonate	1 - < 5 %
		dermal: LD50 = > 2000 mg/kg; oral: LD50 = 5000 mg/kg Skin Sens. 1B; H317: >= 10 - 100	

**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**

## Safety Data Sheet

according to UK REACH Regulation

### DINITROL 1000

Revision date: 17.04.2024

Product code: 21607

Page 3 of 11

#### 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.

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

No further relevant information available.

#### 4.3. Indication of any immediate medical attention and special treatment needed

No information available.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

##### Suitable extinguishing media

alcohol resistant foam, Carbon dioxide (CO<sub>2</sub>), Extinguishing powder. Water fog.

##### Unsuitable extinguishing media

High power water jet.

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

No further relevant information available.

#### 5.3. Advice for firefighters

No further relevant information available.

#### 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

#### 6.1. 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/vapours/spray.

##### 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.  
In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

## Safety Data Sheet

according to UK REACH Regulation

### DINITROL 1000

Revision date: 17.04.2024

Product code: 21607

Page 4 of 11

#### **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**

- No information available.

#### **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.
- If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means.

##### **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.

#### **7.2. 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.

#### **7.3. Specific end use(s)**

- No further relevant information available.

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

#### **8.1. Control parameters**

## Safety Data Sheet

according to UK REACH Regulation

### DINITROL 1000

Revision date: 17.04.2024

Product code: 21607

Page 5 of 11

#### DNEL/DMEL values

CAS No	Substance		
DNEL type	Exposure route	Effect	Value
	Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics		
Consumer DNEL, long-term	oral	systemic	125 mg/kg bw/day
Worker DNEL, long-term	dermal	systemic	208 mg/kg bw/day
Consumer DNEL, long-term	dermal	systemic	125 mg/kg bw/day
Worker DNEL, long-term	inhalation	systemic	871 mg/m <sup>3</sup>
Consumer DNEL, long-term	inhalation	systemic	185 mg/m <sup>3</sup>
61789-86-4	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 DNEL, long-term	inhalation	systemic	2,9 mg/m <sup>3</sup>
Consumer DNEL, long-term	dermal	systemic	1,667 mg/kg bw/day
Consumer DNEL, 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/m <sup>3</sup>

#### PNEC values

CAS No	Substance	
Environmental compartment	Value	
61789-86-4	calcium sulfonate	
Freshwater	1 mg/l	
Marine water	1 mg/l	
Freshwater sediment	226000000 mg/kg	
Marine sediment	226000000 mg/kg	
Secondary poisoning	16667 mg/kg	
Micro-organisms in sewage treatment plants (STP)	1000 mg/l	
Soil	271000000 mg/kg	

#### 8.2. 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)

## Safety Data Sheet

according to UK REACH Regulation

### DINITROL 1000

Revision date: 17.04.2024

Product code: 21607

Page 6 of 11

#### 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

## 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

	Test method
Melting point/freezing point:	not determined
Boiling point or initial boiling point and boiling range:	154-193 °C
Flammability:	Flammable.
Lower explosion limits:	0,6 vol. %
Upper explosion limits:	7 vol. %
Flash point:	36 °C
Auto-ignition temperature:	> 200 °C
Decomposition temperature:	not determined
pH-Value:	not determined
Viscosity / kinematic: (at 40 °C)	< 20,5 mm <sup>2</sup> /s
Water solubility:	Immiscible
Solubility in other solvents not determined	
Partition coefficient n-octanol/water:	not determined
Vapour pressure: (at 20 °C)	3 hPa
Vapour pressure: (at 50 °C)	13 hPa
Density (at 20 °C):	0,81 - 0,85 g/cm <sup>3</sup> DIN 51757
Relative vapour density:	not determined
Particle characteristics:	not applicable

### 9.2. Other information

#### Information with regard to physical hazard classes

Explosive properties

not determined

Sustaining combustion:

No data available

Oxidizing properties

not determined

## Safety Data Sheet

according to UK REACH Regulation

### DINITROL 1000

Revision date: 17.04.2024

Product code: 21607

Page 7 of 11

#### Other safety characteristics

Solvent content:	45,6 %
Solid content:	52 - 55 %
Softening point:	not determined
Flow time: (at 20 °C)	18 - 25 4 DIN EN ISO 2431

#### Further Information

No information available.

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No hazardous reaction when handled and stored according to provisions.

### 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

No information available.

### 10.6. Hazardous decomposition products

Carbon monoxide

## 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.

#### ATEmix calculated

ATE (oral) &gt; 2000 mg/kg; ATE (dermal) &gt; 2000 mg/kg; ATE (inhalation vapour) &gt; 20 mg/l; ATE (inhalation dust/mist) &gt; 5 mg/l

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

#### Irritation and corrosivity

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

Serious eye damage/eye irritation: Based on available data, the classification criteria are not met.

Repeated exposure may cause skin dryness or cracking.

## Safety Data Sheet

according to UK REACH Regulation

### DINITROL 1000

Revision date: 17.04.2024

Product code: 21607

Page 8 of 11

#### Sensitising effects

Based on available data, the classification criteria are not met.  
Contains calcium sulfonate. May produce an allergic reaction.

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

Germ cell mutagenicity: Based on available data, the classification criteria are not met.  
Carcinogenicity: Based on available data, the classification criteria are not met.  
Reproductive toxicity: Based on available data, the classification criteria are not met.

#### STOT-single exposure

May cause drowsiness or dizziness. (Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics)

#### STOT-repeated exposure

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

#### Aspiration hazard

May be fatal if swallowed and enters airways.

#### Information on likely routes of exposure

No information available.

#### Specific effects in experiment on an animal

No information available.

#### Additional information on tests

No information available.

#### Practical experience

No information available.

#### 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

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

#### 12.2. Persistence and degradability

There are no data available on the mixture itself.

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

#### 12.3. Bioaccumulative potential

There are no data available on the mixture itself.

#### 12.4. Mobility in soil

There are no data available on the mixture itself.

#### 12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH.

#### 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

**Safety Data Sheet**

according to UK REACH Regulation

**DINITROL 1000**

Revision date: 17.04.2024

Product code: 21607

Page 9 of 11

No information available.

**Further information**

There are no data available on the mixture itself.

**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 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**

Dispose according to legislation.

**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):** 3  
**14.4. Packing group:** III  
 Hazard label: 3



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

**Inland waterways transport (ADN)**

**14.1. UN number or ID number:** UN 1139  
**14.2. UN proper shipping name:** Coating solution  
**14.3. Transport hazard class(es):** 3  
**14.4. Packing group:** III  
 Hazard label: 3



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

**Safety Data Sheet**

according to UK REACH Regulation

**DINITROL 1000**

Revision date: 17.04.2024

Product code: 21607

Page 10 of 11

**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):** 3  
**14.4. 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)**

**14.1. UN number or ID number:** UN 1139  
**14.2. UN proper shipping name:** COATING SOLUTION  
**14.3. Transport hazard class(es):** 3  
**14.4. Packing group:** III  
 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

**14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: No

**14.6. Special precautions for user**

Warning : Flammable liquids

**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 40, Entry 75

Directive 2004/42/EC on VOC in 45,62 %  
 paints and varnishes: 378,7 g/l  
 Information according to Directive P5c FLAMMABLE LIQUIDS  
 2012/18/EU (SEVESO III):

**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

## Safety Data Sheet

according to UK REACH Regulation

### DINITROL 1000

Revision date: 17.04.2024

Product code: 21607

Page 11 of 11

#### 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): 1 - slightly hazardous to water

#### 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

Chemical safety assessments for substances in this mixture were not carried out.

### SECTION 16: Other information

#### Changes

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

#### Abbreviations and acronyms

Flam. Liq: Flammable liquids  
 Asp. Tox: Aspiration hazard  
 Skin Sens: Skin sensitisation  
 STOT SE: Specific target organ toxicity - single exposure  
 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%

#### 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
STOT SE 3; H336	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.  
 EUH066 Repeated exposure may cause skin dryness or cracking.  
 EUH208 Contains calcium sulfonate. May produce an allergic reaction.

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