

**Safety Data Sheet**

according to 29 CFR 1910.1200(g)

**DINITROL 977**

Revision date: 02/23/2021

Product code: 20614

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**1. Identification****Product identifier**

DINITROL 977

**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**

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: 8520 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**

Skin corrosion/irritation: Skin Irrit. 2  
Serious eye damage/eye irritation: Eye Irrit. 2A  
Respiratory or skin sensitization: Skin Sens. 1

**Label elements****29 CFR Part 1910.1200****Signal word:** Warning**Pictograms:****Hazard statements**

Causes skin irritation  
May cause an allergic skin reaction  
Causes serious eye irritation

**Precautionary statements**

Avoid breathing dust/fume/gas/mist/vapors/spray.  
Wash water thoroughly after handling.  
Contaminated work clothing must not be allowed out of the workplace.  
Wear protective gloves/protective clothing/eye protection/face protection.  
If on skin: Wash with plenty of water.

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Specific treatment (see on this label).

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

Take off contaminated clothing and wash it before reuse.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

If eye irritation persists: Get medical advice/attention.

**3. Composition/information on ingredients****Mixtures****Hazardous components**

CAS No	Components	Quantity
61789-86-4	calcium sulfonate	5 %
108-01-0	2-dimethylaminoethanol; N,N-dimethylethanolamine	2.9 %

**4. First-aid measures****Description of first aid measures****General information**

Remove contaminated, saturated clothing immediately.

**After inhalation**

If unconscious place in recovery position and seek medical advice.

**After contact with skin**

After contact with skin, wash immediately with plenty of water and soap.

In case of skin reactions, consult a physician.

**After contact with eyes**

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

**After ingestion**

Rinse mouth thoroughly with water. Call a physician in any case!

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

No further relevant information available.

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

No further relevant information available.

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

Co-ordinate fire-fighting measures to the fire surroundings.

**Specific hazards arising from the chemical**

No further relevant information available.

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

Use of respiratory protective equipment

**Additional information**

Use water spray/stream 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.

**6. Accidental release measures**

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**Personal precautions, protective equipment and emergency procedures****General measures**

Avoid contact with skin, eyes and clothes.

**Environmental precautions**

Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.

**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 (e.g. 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.

**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**

Use only in well-ventilated areas.

**Advice on protection against fire and explosion**

No special measures are necessary.

**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. Keep cool. Protect from sunlight.

**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.

**Protective and hygiene measures**

The usual precautionary measures are to be adhered to when handling chemicals.

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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.

**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), Breakthrough time (maximum wearing time): 480 min.

NBR (Nitrile rubber), 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:	Liquid
Color:	beige
Odor:	characteristic
Odour threshold:	not determined

**Test method**

pH-Value (at 20 °C):	9,5
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**Changes in the physical state**

Melting point/freezing point:	not determined
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Boiling point or initial boiling point and boiling range:	100 °C
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Flash point:	> 250 °C
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Sustaining combustion:	No data available
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Flammability	
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Solid/liquid:	not applicable
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Gas:	not applicable
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Explosive properties	
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not explosive	
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Lower explosion limits:	not determined
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Upper explosion limits:	not determined
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Auto-ignition temperature:	not determined
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Decomposition temperature:	not determined
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Vapor pressure:	23 hPa
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(at 20 °C)	
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Density (at 20 °C):	1 g/cm <sup>3</sup> DIN 51757
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Water solubility:	immiscible
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Partition coefficient n-octanol/water:	not determined
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Viscosity / dynamic: (at 20 °C)	300 mPa·s
Viscosity / kinematic:	not determined
Solvent content:	org. Lüsemittel 3,6 % Wasser 53,0 %

**Other information**

Solid content:	42 %
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**10. Stability and reactivity**
**Reactivity**

No further relevant information available.

**Chemical stability**

This material is considered to be non-reactive under normal use conditions.

**Possibility of 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**
**Information on toxicological effects**
**Acute toxicity**

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

**ATEmix tested**

	Dose	Species	Source
LD50, oral	50297 mg/kg		
LD50, dermal	51653-132839 mg/kg		
LC50, inhalation (vapor) (4 h)	>162 mg/l	Rat	

CAS No	Components				
	Exposure route	Dose	Species	Source	Method
108-01-0	2-dimethylaminoethanol; N,N-dimethylethanolamine				
	oral	LD50 1187 mg/kg	Rat		
	dermal	LD50 1219 - 3135 mg/kg	Rabbit		
	inhalation (4 h) vapour	LC50 5983 mg/l	Rat		
	inhalation aerosol	ATE 0,5 mg/l			

**Irritation and corrosivity**

Causes skin irritation  
Causes serious eye irritation

**Sensitizing effects**

May cause an allergic skin reaction (calcium sulfonate)

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**Carcinogenic/mutagenic/toxic effects for reproduction**

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

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

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

**Specific target organ toxicity (STOT) - repeated exposure**

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

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**

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

**12. Ecological information****Persistence and degradability**

No further relevant information available.

**Bioaccumulative potential**

No further relevant information available.

**Mobility in soil**

No further relevant information available.

**Other adverse effects**

No further relevant information available.

**13. Disposal considerations****Waste treatment methods****Disposal recommendations**

Dispose of waste according to applicable legislation.

This material and its container must be disposed of as hazardous waste.

**Contaminated packaging**

Dispose of waste according to applicable legislation.

**14. Transport information****US DOT 49 CFR 172.101****Proper shipping name:** No dangerous good in sense of this transport regulation.**Marine transport (IMDG)****UN number:** No dangerous good in sense of this transport regulation.**UN proper shipping name:** No dangerous good in sense of this transport regulation.**Transport hazard class(es):** No dangerous good in sense of this transport regulation.**Packing group:** No dangerous good in sense of this transport regulation.

Marine pollutant: no

**Other applicable information (marine transport)**

Protect against:

**Air transport (ICAO-TI/IATA-DGR)****UN number:** No dangerous good in sense of this transport regulation.**UN proper shipping name:** No dangerous good in sense of this transport regulation.**Transport hazard class(es):** No dangerous good in sense of this transport regulation.

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**Packing group:** No dangerous good in sense of this transport regulation.

**Other applicable information (air transport)**

Protect against:

**Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: No

**Special precautions for user**

not applicable

**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:

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

2-dimethylaminoethanol; N,N-dimethylethanolamine (108-01-0): Fire hazard, 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.

**16. Other information**

Revision date: 02/23/2021

Revision No: 1,0

**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.)*