

according to UK REACH Regulation

#### **DINITROL 977**

Revision date: 27.02.2024 Product code: 21904 Page 1 of 12

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

#### 1.1. Product identifier

**DINITROL 977** 

UFI: JKNX-K1GY-P008-2XN5

### 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**

Skin Irrit. 2; H315 Eye Irrit. 2; H319

Full text of hazard statements: see SECTION 16.

### 2.2. Label elements

#### **GB CLP Regulation**

Signal word: Warning

Pictograms:



# **Hazard statements**

H315 Causes skin irritation.
H319 Causes serious eye irritation.

# **Precautionary statements**

P280 Wear protective gloves and eye/face protection.

P302+P352 IF ON SKIN: Wash with plenty of water.

P332+P313 If skin irritation occurs: Get medical advice/attention.

P362+P364 Take off contaminated clothing and wash it before reuse.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

### Special labelling of certain mixtures

EUH208 Contains calcium sulfonate, 1,2-benzisothiazol-3(2H)-one, 1,2-benzisothiazolin-3-one,

reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one

(3:1). May produce an allergic reaction. Restricted to professional users.



according to UK REACH Regulation

## **DINITROL 977**

Revision date: 27.02.2024 Product code: 21904 Page 2 of 12

Labelling of packages where the contents do not exceed 125 ml

Signal word: Warning

Pictograms:



## 2.3. Other hazards

No information available.

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

# 3.2. Mixtures

# Relevant ingredients

CAS No	Chemical name				
	EC No	Index No	REACH No		
	Classification (GB CLP Regulation	)			
64743-00-6	Hydrocarbon waxes (petroleum), c	xidized		5 - < 10 %	
	265-205-1		01-2119972699-13		
	Eye Irrit. 2; H319				
61789-86-4	calcium sulfonate			1 - < 5 %	
	263-093-9		01-2119488992-18		
	Skin Sens. 1B; H317				
108-01-0	2-dimethylaminoethanol; N,N-dime		1 - < 5 %		
	203-542-8	603-047-00-0	01-2119492298-24		
	Flam. Liq. 3, Acute Tox. 3, Acute T H312 H302 H314 H335	TOT SE 3; H226 H331			
2634-33-5	1,2-benzisothiazol-3(2H)-one, 1,2-		< 0.05 %		
	220-120-9	613-088-00-6	01-2120761540-60		
	Acute Tox. 4, Skin Irrit. 2, Eye Dan H400	1302 H315 H318 H317			
55965-84-9	reaction mass of 5-chloro-2-methy	H-isothiazol-3-one (3:1)	< 0.0015 %		
	-	613-167-00-5	01-2120764691-48		
	Acute Tox. 2, Acute Tox. 2, Acute Tox. 3, Skin Corr. 1C, Eye Dam. 1, Skin Sens. 1A, Aquatic Acute 1, Aquatic Chronic 1; H330 H310 H301 H314 H318 H317 H400 H410 EUH071				

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



# **Safety Data Sheet**

according to UK REACH Regulation

### **DINITROL 977**

Revision date: 27.02.2024 Product code: 21904 Page 3 of 12

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	1 - < 5 %
	dermal: LD50 =	= > 2000 mg/kg; oral: LD50 = 5000 mg/kg Skin Sens. 1B; H317: >= 10 - 100	
108-01-0	203-542-8	2-dimethylaminoethanol; N,N-dimethylethanolamine	1 - < 5 %
	1	50 = 5983 mg/l (vapours); inhalation: ATE = 0,5 mg/l (dusts or mists); dermal: 3135 mg/kg; oral: LD50 = 1187 mg/kg STOT SE 3; H335: >= 5 - 100	
2634-33-5	220-120-9	1,2-benzisothiazol-3(2H)-one, 1,2-benzisothiazolin-3-one	< 0.05 %
	oral: ATE = 50	0 mg/kg Skin Sens. 1; H317: >= 0,05 - 100	
55965-84-9	-	reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	< 0.0015 %
	= 50 mg/kg; ora 0,06 - < 0,6 E 1A; H317: >= 0 Aquatic Acute 1	E = 0,5 mg/l (vapours); inhalation: ATE = 0,05 mg/l (dusts or mists); dermal: ATE al: ATE = 100 mg/kg Skin Corr. 1C; H314: >= 0,6 - 100 Skin Irrit. 2; H315: >= 100 Skin Skin Skin Skin Skin Skin Skin Skin	

#### **Further Information**

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

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

## 4.1. Description of first aid measures

### **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 further relevant information available.

# **SECTION 5: Firefighting measures**

# 5.1. Extinguishing media

# Suitable extinguishing media

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



according to UK REACH Regulation

#### **DINITROL 977**

Revision date: 27.02.2024 Product code: 21904 Page 4 of 12

### 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

Use of respiratory protective equipment

#### 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.

### 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

No special measures are necessary.

### 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.



according to UK REACH Regulation

### **DINITROL 977**

Revision date: 27.02.2024 Product code: 21904 Page 5 of 12

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

# **Exposure limits (EH40)**

CAS No	Substance	ppm	mg/m³	fibres/ml	Category	Origin
108-01-0	2-Dimethylaminoethanol	2	7.4		TWA (8 h)	WEL
		6	22		STEL (15 min)	WEL

## **DNEL/DMEL values**

CAS No	Substance			
DNEL type		Exposure route	Effect	Value
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 DNI	EL, long-term	inhalation	systemic	2,9 mg/m³
Consumer DNEL, long-term		dermal	systemic	1,667 mg/kg bw/day
Consumer DNI	EL, 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
108-01-0	2-dimethylaminoethanol; N,N-dimethylethanolamine			
Worker DNEL, long-term		dermal	systemic	1,04 mg/kg bw/day
Worker DNEL, acute		dermal	systemic	5 mg/kg bw/day
Worker DNEL, long-term		inhalation	systemic	7,4 mg/m³
Worker DNEL, acute		inhalation	systemic	22 mg/m³



according to UK REACH Regulation

### **DINITROL 977**

Revision date: 27.02.2024 Product code: 21904 Page 6 of 12

#### **PNEC values**

CAS No	Substance	
Environment	al compartment	Value
61789-86-4	calcium sulfonate	
Freshwater		1 mg/l
Marine water	r	1 mg/l
Freshwater s	sediment	226000000 mg/kg
Marine sedin	nent	226000000 mg/kg
Secondary poisoning		16667 mg/kg
Micro-organisms in sewage treatment plants (STP)		1000 mg/l
Soil		271000000 mg/kg
108-01-0	2-dimethylaminoethanol; N,N-dimethylethanolamine	
Freshwater		0,0661 mg/l
Freshwater (intermittent releases)		00661 mg/l
Marine water		0,00661 mg/l
Freshwater sediment		0,0529 mg/kg
Micro-organisms in sewage treatment plants (STP)		10 mg/l
Soil		0,0177 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 (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



according to UK REACH Regulation

### **DINITROL 977**

Revision date: 27.02.2024 Product code: 21904 Page 7 of 12

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

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

Physical state: Liquid
Colour: beige
Odour: characteristic
Odour threshold: not determined

Test method

Melting point/freezing point:

Boiling point or initial boiling point and

not determined

100 °C

boiling range:

Flammability: not applicable
Lower explosion limits: not determined
Upper explosion limits: not determined

Flash point: > 250 °C DIN 53213

Auto-ignition temperature: not determined Decomposition temperature: not determined pH-Value (at 20 °C): 9,5 - 10 Viscosity / kinematic: not determined Water solubility: completely miscible

Solubility in other solvents

not determined

Partition coefficient n-octanol/water: not determined Vapour pressure: 23 hPa

(at 20 °C)

Vapour pressure: 123 hPa

(at 50 °C)

Density (at 20 °C): 1 g/cm³ 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 explosive.

Sustaining combustion: No data available

Oxidizing properties not determined

Other safety characteristics

Solvent content:

Solvent 2,98 %
water 53,0 %
Solid content:
41,6 %
Softening point:
not determined

**Further Information**No information available.

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

#### 10.1. Reactivity

No further relevant information available.

### 10.2. Chemical stability

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



# **Safety Data Sheet**

according to UK REACH Regulation

### **DINITROL 977**

Revision date: 27.02.2024 Product code: 21904 Page 8 of 12

## 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 further relevant 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) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l

CAS No	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		
108-01-0	2-dimethylaminoethanol;	N,N-dimethyl	ethanolamir	ne		
	oral	LD50 mg/kg	1187	Rat		
	dermal	LD50 3135 mg/kg	1219 -	Rabbit		
	inhalation (4 h) vapour	LC50	5983 mg/l	Rat		
	inhalation dust/mist	ATE	0,5 mg/l			
2634-33-5	1,2-benzisothiazol-3(2H)-one, 1,2-benzisothiazolin-3-one					
	oral	ATE mg/kg	500			
55965-84-9	reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)					
	oral	ATE mg/kg	100			
	dermal	ATE	50 mg/kg			
	inhalation vapour	ATE	0,5 mg/l			
	inhalation dust/mist	ATE	0,05 mg/l			

# Irritation and corrosivity

Causes skin irritation.

Causes serious eye irritation.

### Sensitising effects

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

Contains calcium sulfonate, 1,2-benzisothiazol-3(2H)-one, 1,2-benzisothiazolin-3-one, reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1). May produce an allergic reaction

## Carcinogenic/mutagenic/toxic effects for reproduction



according to UK REACH Regulation

#### **DINITROL 977**

Revision date: 27.02.2024 Product code: 21904 Page 9 of 12

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

### STOT-single exposure

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

#### 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.

## 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

No further relevant information available.

### 12.3. Bioaccumulative potential

No further relevant information available.

# 12.4. Mobility in soil

No further relevant information available.

## 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

No further relevant 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.

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

# Contaminated packaging

Dispose of waste according to applicable legislation.



# Safety Data Sheet

according to UK REACH Regulation

#### **DINITROL 977**

Revision date: 27.02.2024 Product code: 21904 Page 10 of 12

### **SECTION 14: Transport information**

Land transport (ADR/RID)

14.1. UN number or ID number:No dangerous good in sense of this transport regulation.14.2. UN proper shipping name:No dangerous good in sense of this transport regulation.14.3. Transport hazard class(es):No dangerous good in sense of this transport regulation.14.4. Packing group:No dangerous good in sense of this transport regulation.

Other applicable information (land transport)

Protect against:Freeze

Inland waterways transport (ADN)

14.1. UN number or ID number:No dangerous good in sense of this transport regulation.14.2. UN proper shipping name:No dangerous good in sense of this transport regulation.14.3. Transport hazard class(es):No dangerous good in sense of this transport regulation.14.4. Packing group:No dangerous good in sense of this transport regulation.

Other applicable information (inland waterways transport)

Protect against:Freeze

Marine transport (IMDG)

14.1. UN number or ID number:No dangerous good in sense of this transport regulation.14.2. UN proper shipping name:No dangerous good in sense of this transport regulation.14.3. Transport hazard class(es):No dangerous good in sense of this transport regulation.14.4. Packing group:No dangerous good in sense of this transport regulation.

Marine pollutant: no Other applicable information (marine transport)

Protect against:Freeze

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number or ID number:No dangerous good in sense of this transport regulation.14.2. UN proper shipping name:No dangerous good in sense of this transport regulation.14.3. Transport hazard class(es):No dangerous good in sense of this transport regulation.14.4. Packing group:No dangerous good in sense of this transport regulation.

Other applicable information (air transport)

Protect against:Freeze

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

14.6. Special precautions for user

not applicable

14.7. Maritime transport in bulk according to IMO instruments

not applicable

Other applicable information

Transport classification ADR/IMGD is based on packaging >30ltr(IMDG), >450ltr(ADR).

For other packaging untis different classification can apply.

# **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 2,98 % paints and varnishes: 29,8 g/l

Additional information



according to UK REACH Regulation

#### **DINITROL 977**

Revision date: 27.02.2024 Product code: 21904 Page 11 of 12

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): 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

For this substance a chemical safety assessment has not been carried out.

#### **SECTION 16: Other information**

### Abbreviations and acronyms

Flam. Liq: Flammable liquids Acute Tox: Acute toxicity Skin Corr: Skin corrosion Skin Irrit: Skin irritation Eye Dam: Eye damage Eye Irrit: Eye irritation Skin Sens: Skin sensitisation

STOT SE: Specific target organ toxicity - single exposure

Aquatic Acute: Acute aquatic hazard
Aquatic Chronic: Chronic aquatic hazard

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
Skin Irrit. 2; H315	Calculation method
Eye Irrit. 2; H319	Calculation method

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

H226	Flammable liquid and vapour.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H310	Fatal in contact with skin.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.



# **Safety Data Sheet**

according to UK REACH Regulation

	DINITROL 977	
Revision date: 27.02.2024	Product code: 21904	Page 12 of 12

H330	Fatal if inhaled.
H331	Toxic if inhaled.

H335 May cause respiratory irritation.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

EUH071 Corrosive to the respiratory tract.

EUH208 Contains calcium sulfonate, 1,2-benzisothiazol-3(2H)-one, 1,2-benzisothiazolin-3-one,

reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one

(3:1). 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.)