

Revision date: 21.11.2023

DINITROL 970

Product code: 6417

Page 1 of 8

1. Identification

Product identifier

DINITROL 970

Relevant identified uses of the substance or mixture and uses advised against

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: 8500 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 telephone number: 3E Company Emergency +1-866-404-4230

2. Hazard identification

Classification of the substance or mixture

WHMIS 2015

Aspiration hazard: Asp. Tox. 1
Skin corrosion/irritation: Skin Irrit. 2
Serious eye damage/eye irritation: Eye Dam. 1
Respiratory or skin sensitization: Skin Sens. 1A

Label elements

WHMIS 2015

Signal word: Danger

Pictograms:



Hazard statements

May be fatal if swallowed and enters airways.
Causes skin irritation.
May cause an allergic skin reaction.
Causes serious eye damage.

Precautionary statements

Avoid breathing dust/fume/gas/mist/vapours/spray.
Wash water thoroughly after handling.
Contaminated work clothing should not be allowed out of the workplace.

DINITROL 970

Revision date: 21.11.2023

Product code: 6417

Page 2 of 8

Wear protective gloves/protective clothing/eye protection/face protection.
 IF SWALLOWED: Immediately call a POISON CENTER/doctor.
 Do NOT induce vomiting.
 IF ON SKIN: Wash with plenty of water.
 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.
 Immediately call a POISON CENTER/doctor.
 Store locked up.

Other hazards

No information available.

3. Composition/information on ingredients

Mixtures

Hazardous components

| CAS No | Chemical name | Quantity |
|------------|---|---------------|
| 64742-54-7 | Baseoil - unspecified, Distillates (petroleum), hydrotreated heavy paraffinic | 7 - < 13% (*) |
| 100-37-8 | 2-diethylaminoethanol; N,N-diethylethanolamine | 1 - < 5% (*) |
| 2682-20-4 | 2-methylisothiazol-3(2H)-one | < 0.1% (*) |

(*) The actual concentration is withheld as a trade secret.

Further Information

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

4. First-aid measures

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.
 In case of irregular breathing or respiratory arrest provide artificial respiration.

After contact with skin

Change contaminated clothing.
 Wash with plenty of water/Soap.
 Do not wash with: Solvent/Thinner.

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.

Most important symptoms and effects, whether acute or delayed

No information available.

Indication of immediate medical attention and special treatment needed

No information available.

Revision date: 21.11.2023

DINITROL 970

Product code: 6417

Page 3 of 8

5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media

alcohol resistant foam, Carbon dioxide (CO₂), Extinguishing powder, Water fog.

Unsuitable extinguishing media

High power water jet.

Specific hazards arising from the hazardous product

No further relevant information available.

Special protective equipment and precautions for fire-fighters

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.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

General advice

Special danger of slipping by leaking/spilling product.

Ventilate affected area.

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.

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

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: see section 8

Disposal: see section 13

7. Handling and storage

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.

DINITROL 970

Revision date: 21.11.2023

Product code: 6417

Page 4 of 8

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.

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

No special measures are necessary.

Hints on joint storage

Not required.

Further information on storage conditions

storage temperature: >0° - < 30°C

8. Exposure controls/Personal protection

Control parameters

Exposure limits (ACGIH)

| CAS No | Chemical name | ppm | mg/m ³ | F/ml | Category | Origin |
|----------|-----------------------|-----|-------------------|------|-----------|------------|
| 100-37-8 | 2-Diethylaminoethanol | 2 | | | TWA (8 h) | ACGIH-2023 |

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), Breakthrough time:: 480 min.

NBR (Nitrile rubber), 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

Not required.

DINITROL 970

Revision date: 21.11.2023

Product code: 6417

Page 5 of 8

9. Physical and chemical properties

Information on basic physical and chemical properties

| | |
|------------------|----------------|
| Physical state: | Liquid |
| Colour: | light beige |
| Odour: | like: Amines |
| Odour threshold: | not determined |

Test method

| | |
|---|---------------------|
| Melting point/freezing point: | not determined |
| Boiling point or initial boiling point and boiling range: | 100 °C |
| Flammability: | not applicable |
| Lower explosive limits: | not applicable |
| Upper explosive limits: | not applicable |
| Flash point: | > 100 °C |
| Auto-ignition temperature: | not applicable |
| Decomposition temperature: | not determined |
| pH-Value (at 20 °C): | 10,4 |
| Water solubility: | completely miscible |
| Solubility in other solvents | not determined |
| Partition coefficient n-octanol/water: | not determined |
| Vapour pressure: | 23 hPa |
| (at 20 °C) | |
| Density (at 20 °C): | 1,01 - 1,03 g/cm³ |
| Bulk density: | not applicable |
| Relative vapour density: | not determined |

Other information

Information with regard to physical hazard classes

| | |
|---------------------------|----------------|
| Explosive properties | not determined |
| Self-ignition temperature | |
| Solid: | not applicable |
| Gas: | not applicable |
| Oxidizing properties | |
| not determined | |

Other safety characteristics

| | |
|--------------------------|---------------------------|
| Evaporation rate: | not determined |
| Solvent separation test: | not determined |
| Solvent content: | water: 67,30 % |
| Solid content: | 27 - 29 % |
| Sublimation point: | not applicable |
| Softening point: | not applicable |
| Pour point: | not applicable |
| Viscosity / dynamic: | not determined |
| Flow time: | 14 - 20 4 DIN EN ISO 2431 |
| (at 20 °C) | |

Further Information

No information available.

10. Stability and reactivity

DINITROL 970

Revision date: 21.11.2023

Product code: 6417

Page 6 of 8

Reactivity

No hazardous reaction when handled and stored according to provisions.

Chemical stability

The product is stable under storage at normal ambient temperatures.

Possibility of hazardous reactions

No known hazardous reactions.

Conditions to avoid

No known hazardous reactions.

Incompatible materials

No 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 calculated

ATE (oral) 39030 mg/kg; ATE (dermal) 21670 mg/kg; ATE (inhalation vapour) 138,3 mg/l; ATE (inhalation dust/mist) 15,04 mg/l

| CAS No | Chemical name | | | | |
|-----------|--|-----------------|---------|--------|--------|
| | Route of exposure | Dose | Species | Source | Method |
| 100-37-8 | 2-diethylaminoethanol; N,N-diethylethanolamine | | | | |
| | oral | LD50 1300 mg/kg | Rat | | |
| | dermal | LD50 885 mg/kg | Rabbit | | |
| | inhalation (4 h) vapour | LC50 4,6 mg/l | Rat | | |
| | inhalation dust/mist | ATE 0,5 mg/l | | | |
| 2682-20-4 | 2-methylisothiazol-3(2H)-one | | | | |
| | oral | ATE 100 mg/kg | | | |
| | dermal | ATE 300 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 damage.

Sensitizing effects

May cause an allergic skin reaction. (2-methylisothiazol-3(2H)-one)

Carcinogenic/mutagenic/toxic effects for reproduction

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.

Revision date: 21.11.2023

DINITROL 970

Product code: 6417

Page 7 of 8

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.

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.

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

Dispose of waste according to applicable legislation.

Do not mix with other wastes.

Contaminated packaging

Completely emptied packages can be recycled.

Remove according to the regulations.

14. Transport information**Canadian TDG****Proper shipping name:**

No dangerous good in sense of this transport regulation.

Marine transport (IMDG)**UN number or ID number:**

No dangerous good in sense of this transport regulation.

United Nations proper shipping name:

No dangerous good in sense of this transport regulation.

DINITROL 970

Revision date: 21.11.2023

Product code: 6417

Page 8 of 8

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

Air transport (ICAO-TI/IATA-DGR)

UN number or ID number: No dangerous good in sense of this transport regulation.

United Nations 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.

Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

15. Regulatory information

Canadian regulations

DSL/NDSL inventory status

Substance/product listed in the following inventories: DSL/NDSL

Directive 2004/42/EC on VOC in 3,33 %

paints and varnishes: 34,0 g/l

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

16. Other information

Changes

This data sheet contains changes from the previous version in section(s): 1,2,9.

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%

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.)