

**Safety Data Sheet**

according to 29 CFR 1910.1200(g)

**DINITROL 4942 IQ**

Revision date: 01/07/2026

Product code: 20225

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

DINITROL 4942 IQ

**Recommended use of the chemical and restrictions on use**
**Use of the substance/mixture**

Korrosionsschutzmittel

**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	Telefax: + 49 (0) 5281 9829860
E-mail:	msds@dinol.com	
Contact person:	Labor	
Internet:	www.dinol.com	
Responsible Department:	msds@dinol.com	

**Supplier**

Company name:	DINOL U.S. Inc.	
Street:	8500 Cotter Street, Lewis Center	
Place:	USA-43035 Ohio	
Telephone:	740-548-1656	Telefax: 740-548-1657
E-mail:	info@dinolus.com	
Internet:	www.dinol.com	

**Emergency phone number:** 3E Company Emergency +1-866-404-4230

**2. Hazard(s) identification**
**Classification of the chemical**
**29 CFR Part 1910.1200**

Flammable liquids: Flam. Liq. 3

Specific target organ toxicity single exposure: STOT SE 3 (narcotic effects)

**Label elements**
**29 CFR Part 1910.1200**
**Signal word:** Warning

**Pictograms:**

**Hazard statements**

 Flammable liquid and vapor  
 May cause drowsiness or dizziness

**Precautionary statements**

 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.  
 Keep container tightly closed.  
 Ground/bond container and receiving equipment.  
 Use explosion-proof electrical/ventilating/lighting equipment.  
 Use only non-sparking tools.  
 Take precautionary measures against static discharge.

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Avoid breathing dust/fume/gas/mist/vapors/spray.  
 Use only outdoors or in a well-ventilated area.  
 Wear protective gloves/protective clothing/eye protection/face protection.  
 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
 If inhaled: Remove person to fresh air and keep comfortable for breathing.  
 Call a poison center/doctor if you feel unwell.  
 Keep container tightly closed.  
 Store in a well-ventilated place. Keep cool.  
 Store locked up.

#### Special labeling

Restricted to professional users.

#### Hazards not otherwise classified

No information available.

### 3. Composition/information on ingredients

#### Mixtures

##### Relevant ingredients

CAS No	Components	Quantity
	Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics	49.9 %

#### Further Information

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

### 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.

##### 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.

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

No information available.

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

No information available.

### 5. Fire-fighting measures

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**Extinguishing media****Suitable extinguishing media**Carbon dioxide (CO<sub>2</sub>); Extinguishing powder; Sand; alcohol resistant foam**Unsuitable extinguishing media**

Full water jet

**Specific hazards arising from the chemical**

No information available.

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

Use appropriate respiratory protection.

**Additional information**

Use water spray/stream to protect personnel and to cool endangered containers. Suppress gases/vapors/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**

Provide adequate ventilation.

Wear personal protection equipment.

Avoid contact with skin, eyes and clothes.

Avoid breathing dust/fume/gas/mist/vapors/spray.

**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 (PPE): 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.

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**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.

**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.

**8. Exposure controls/personal protection**
**Control parameters**
**Exposure limits**

CAS No	Substance	ppm	mg/m <sup>3</sup>	Category	Origin
7429-90-5	Aluminum (resp)	-	5	TWA (8 h)	REL
7429-90-5	Aluminum (total)	-	10	TWA (8 h)	REL
7429-90-5	Aluminum Metal (as Al) Respirable fraction	-	5	TWA (8 h)	PEL
7429-90-5	Aluminum Metal (as Al) Total dust	-	15	TWA (8 h)	PEL
7429-90-5	Aluminum metal (respirable fraction)	-	1	TWA (8 h)	ACGIH-2025
64-17-5	Ethanol	1000	1880	STEL (15 min)	ACGIH-2025
64-17-5	Ethyl alcohol (Ethanol)	1000	1900	TWA (8 h)	PEL
64-17-5	Ethyl alcohol	1000	1900	TWA (8 h)	REL

**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.  
Thickness of the glove material : > 0,12 mm

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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:	viscous
Color:	brown
Odor:	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: not applicable

Lower explosion limits: 0,7 vol. %

Upper explosion limits: 6 vol. %

Flash point: 36 °C

Auto-ignition temperature: > 200 °C

Decomposition temperature: not determined

pH-Value: The study does not need to be conducted because the substance is known to be insoluble in water.

Viscosity / kinematic: > 20,5 mm<sup>2</sup>/s

(at 40 °C)

Water solubility: practically insoluble

Solubility in other solvents: not determined

Partition coefficient n-octanol/water: not determined

Vapor pressure: 3 hPa

(at 20 °C)

Vapor pressure: 13 hPa

(at 50 °C)

Density (at 20 °C): 1,11 - 1,14 g/cm<sup>3</sup> DIN 51757

Relative vapour density: not determined

Particle characteristics: not applicable

### Other information

#### Information with regard to physical hazard classes

##### Explosive properties

The product is: not explosive. In use, may form flammable/explosive vapor-air mixture.

Sustained combustibility: No data available

##### Oxidizing properties

not determined

#### Other safety characteristics

Evaporation rate: not determined

Solvent content: 31,3 %

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Solid content: 66 - 70  
 Softening point: not determined  
 Viscosity / dynamic: 2000 - 4000 mPa·s  
 (at 20 °C)

**Further Information**

No information available.

**10. Stability and reactivity**
**Reactivity**

No further relevant information available.

**Chemical stability**

Stability: Stable

No known hazardous decomposition products.

**Possibility of hazardous reactions**

Hazardous reactions: Will not occur

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**
**Route(s) of Entry**

No information available.

**Information on toxicological effects**
**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	Components				
	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		

**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.

**Sensitizing effects**

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

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

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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.

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

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

#### 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): Ethanol in alcoholic beverages (CAS 64-17-5) is listed in group 1.

Carcinogenicity (NTP): No ingredient of this mixture is listed.

#### Aspiration hazard

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

#### 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

No further relevant information available.

#### Bioaccumulative potential

No further relevant information available.

#### Mobility in soil

No further relevant information available.

#### 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 further relevant information available.

#### Further information

There are no data available on the mixture itself.

## 13. Disposal considerations

#### Waste treatment methods

##### Disposal recommendations

Dispose of waste according to applicable legislation.

Do not mix with other wastes.

##### Contaminated packaging

Dispose of waste according to applicable legislation.

## 14. Transport information

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**U.S. DOT 49 CFR 172.101**

**UN number or ID number:** UN 1139  
**Proper shipping name:** Coating solution  
**Transport hazard class(es):** 3  
**Packing group:** III

**Marine transport (IMDG)**

**UN number or ID number:** UN 1139  
**UN proper shipping name:** COATING SOLUTION  
**Transport hazard class(es):** 3  
**Packing group:** III  
 Hazard label: 3



Marine pollutant: no  
 Limited quantity: 5 L  
 Excepted quantity: E1  
 EmS: F-E, S-E

**Air transport (ICAO-TI/IATA-DGR)**

**UN number or ID number:** UN 1139  
**UN proper shipping name:** COATING SOLUTION  
**Transport hazard class(es):** 3  
**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

**Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: No

**Special precautions for user**

Warning: Flammable liquids

**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:

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics (-): Fire hazard, Immediate (acute) health hazard

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Aluminum (fume or dust) (7429-90-5): Fire hazard  
 ethanol; ethyl alcohol (64-17-5): Fire hazard  
 SARA Section 313 Toxic release inventory:  
 Aluminum (fume or dust) (7429-90-5): De minimis limit = 1.0 %, Reportable threshold = Standard

#### 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.

Directive 2004/42/EC on VOC in paints and varnishes: 31,27 %  
 350,2 g/l

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

86161

#### 16. Other information

##### Hazardous Materials Identification System (HMIS)

Health: 0  
 Flammability: 2  
 Physical Hazard: 0

##### NFPA Hazard Ratings

Health: 0  
 Flammability: 2  
 Reactivity: 0  
 Unique Hazard: none



##### Changes

Revision date: 01/07/2026  
 Revision No: 1,7

This data sheet contains changes from the previous version in section(s): 2,7,8,11,16.

##### 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 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.

This safety data sheet contains only safety-related information and does not replace product information or product specifications.

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