

# Safety Data Sheet

according to 29 CFR 1910.1200(g)

## DINITROL 77 B Spray

Revision date: 01/24/2022

Product code: 21702

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### 1. Identification

#### Product identifier

DINITROL 77 B Spray

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

### 2. Hazard(s) identification

#### Classification of the chemical

##### 29 CFR Part 1910.1200

Flammable aerosols: Flam. Aerosol 1  
Gases under pressure: Compressed gas  
Aspiration hazard: Asp. Tox. 1  
Specific target organ toxicity single exposure: STOT SE 3 (narcotic effects)

#### Label elements

##### 29 CFR Part 1910.1200

**Signal word:** Danger

**Pictograms:**



#### **Hazard statements**

Extremely flammable aerosol  
Contains gas under pressure; may explode if heated  
May cause drowsiness or dizziness  
May be fatal if swallowed and enters airways

#### **Precautionary statements**

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.  
Do not spray on an open flame or other ignition source.  
Pressurized container: Do not pierce or burn, even after use.

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Avoid breathing dust/fume/gas/mist/vapors/spray.  
 Use only outdoors or in a well-ventilated area.  
 If swallowed: Immediately call a poison center/doctor.  
 Do NOT induce vomiting.  
 If inhaled: Remove person to fresh air and keep comfortable for breathing.  
 Call a poison center/doctor if you feel unwell.  
 Store in a well-ventilated place. Keep container tightly closed.  
 Store locked up.  
 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

#### Additional advice on labelling

The classification of the aerosol was carried out according to EC 1272/2008, Annex 1, point 1.1.3.7.

#### Hazards not otherwise classified

No information available.

### 3. Composition/information on ingredients

#### Mixtures

##### Hazardous components

CAS No	Components	Quantity
64742-48-9	Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics	49 %

#### 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

Provide fresh air. In case of respiratory tract irritation, consult a physician.

##### After contact with skin

After contact with skin, wash immediately with polyethylene glycol, followed by plenty of water. Take off immediately all contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention.

##### After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water. In case of eye irritation consult an ophthalmologist.

##### After ingestion

Rinse mouth immediately and drink plenty of water. Do NOT induce vomiting.

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

No information available.

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

Treat symptomatically.

### 5. Fire-fighting measures

#### Extinguishing media

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**Suitable extinguishing media**

Carbon dioxide (CO<sub>2</sub>), alcohol resistant foam , Extinguishing powder  
In case of major fire and large quantities: Water spray jet, alcohol resistant foam

**Unsuitable extinguishing media**

High power water jet.

**Specific hazards arising from the chemical**

No further relevant information available.

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

In case of fire: Wear self-contained breathing apparatus.

**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**

Do not breathe gas/fume/vapor/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment.

**For emergency responders**

For further specification, refer to section 8 of the SDS.

**Environmental precautions**

Do not allow to enter into surface water or drains.

**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**

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.

**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**

Do not pierce or burn, even after use. If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fume/vapor/spray.

**Advice on protection against fire and explosion**

Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

**Advice on general occupational hygiene**

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme.

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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

Keep container tightly closed. Keep in a cool, well-ventilated place. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

#### Hints on joint storage

No special measures are necessary.

## 8. Exposure controls/personal protection

### Control parameters

#### Exposure limits

CAS No.	Substance	ppm	mg/m <sup>3</sup>	f/cc	Category	Origin
106-97-8	n-Butane	800	1900		TWA (8 h)	REL
74-98-6	Propane	1000	1800		TWA (8 h)	PEL
		1000	1800		TWA (8 h)	REL

### Exposure controls



#### Appropriate engineering controls

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fume/vapor/spray.

#### Individual protection measures, such as personal protective equipment

##### Eye/face protection

Not required.

Recommended eye protection articles: Eye glasses with side protection (EN 166)

##### Hand protection

Not required.

Recommended glove articles

NBR (Nitrile rubber) - (> = 0,12 mm), 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

Work in well-ventilated zones or use proper respiratory protection.  
gas filtering equipment (EN 141), Filter material/medium: AX

## 9. Physical and chemical properties

### Information on basic physical and chemical properties

Physical state:	Aerosol
Color:	brown
Odor:	characteristic

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Odour threshold: not determined

#### Test method

#### Changes in the physical state

Melting point/freezing point: not determined  
Boiling point or initial boiling point and boiling range: -44 °C  
Flash point: < -20 °C

#### Flammability

Solid/liquid: not applicable  
Gas: not applicable

#### Explosive properties

not determined

Lower explosion limits: 0,6 vol. %  
Upper explosion limits: 10,9 vol. %  
Auto-ignition temperature: > 200 °C

#### Self-ignition temperature

Solid: not applicable  
Gas: not applicable

Decomposition temperature: not determined

pH-Value: not determined

Viscosity / dynamic: not determined

Viscosity / kinematic: not determined

Water solubility: The study does not need to be conducted because the substance is known to be insoluble in water.

#### Solubility in other solvents

not determined

Partition coefficient n-octanol/water: not determined

Vapor pressure: 8300 hPa  
(at 20 °C)

Density (at 20 °C): 0,736 g/cm<sup>3</sup> DIN 51757

Relative vapour density: not determined

#### Other information

##### Information with regard to physical hazard classes

Oxidizing properties  
Not oxidising.

##### Other safety characteristics

Solvent content: 64,10 %  
Solid content: 35,90 %  
Evaporation rate: not determined

##### Further Information

No information available.

## 10. Stability and reactivity

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### Reactivity

No hazardous reaction when handled and stored according to provisions.

### Chemical stability

Stability: Stable

The product is stable under storage at normal ambient temperatures.

### Possibility of hazardous reactions

Hazardous reactions: Will not occur

No known hazardous reactions.

### Conditions to avoid

No further relevant information available.

### 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.

CAS No	Components				
	Exposure route	Dose	Species	Source	Method
64742-48-9	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

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

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): No ingredient of this mixture is listed.

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

#### Aspiration hazard

May be fatal if swallowed and enters airways

Observe risk of aspiration if vomiting occurs. Potential hazards: Pneumonia

### Information on other hazards

#### Endocrine disrupting properties

Endocrine disrupting potential No information available.

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### Further information

There are no data available on the preparation/mixture itself.

## 12. Ecological information

### Ecotoxicity

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

### Persistence and degradability

The product has not been tested.

### Bioaccumulative potential

The product has not been tested.

### Mobility in soil

The product has not been tested.

### 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. Do not allow to enter into soil/subsoil.

## 13. Disposal considerations

### Waste treatment methods

#### Disposal recommendations

Dispose of waste according to applicable legislation. Do not mix with other wastes.

List of proposed waste codes/waste designations in accordance with EWC:

#### Contaminated packaging

Remove according to the regulations.

## 14. Transport information

### U.S. DOT 49 CFR 172.101

#### UN number or ID number:

UN 1950

#### Proper shipping name:

AEROSOLS

#### Transport hazard class(es):

2.1

#### Hazard label:

2.1



### Marine transport (IMDG)

#### UN number or ID number:

UN 1950

#### UN proper shipping name:

AEROSOLS

#### Transport hazard class(es):

2.1

#### Packing group:

-

#### Hazard label:

2.1



#### Marine pollutant:

no

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Special Provisions: 63, 190, 277, 327, 344, 381, 959  
 Limited quantity: 1000 mL  
 Excepted quantity: E0  
 EmS: F-D, S-U

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

**UN number or ID number:** UN 1950  
**UN proper shipping name:** AEROSOLS, FLAMMABLE  
**Transport hazard class(es):** 2.1  
**Packing group:** -  
 Hazard label: 2.1



Special Provisions: A145 A167 A802  
 Limited quantity Passenger: 30 kg G  
 Passenger LQ: Y203  
 Excepted quantity: E0  
 IATA-packing instructions - Passenger: 203  
 IATA-max. quantity - Passenger: 75 kg  
 IATA-packing instructions - Cargo: 203  
 IATA-max. quantity - Cargo: 150 kg

### Other applicable information (air transport)

E0  
 Passenger-LQ: Y203

### Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

### Special precautions for user

Stowage Code:  
 SW1 Protected from sources of heat.  
 SW22 For AEROSOLS with a maximum capacity of 1 litre: Category A. For AEROSOLS with a capacity above 1 litre: Category B. For WASTE AEROSOLS: Category C, Clear of living quarters.

Segregation Code:  
 SG69 For AEROSOLS with a maximum capacity of 1 litre: Segregation as for class 9. Stow "separated from" class 1 except for division 1.4. For AEROSOLS with a capacity above 1 litre: Segregation as for the appropriate subdivision of class 2. For WASTE AEROSOLS: Segregation as for the appropriate subdivision of class 2.

### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

not applicable

### Other applicable information

Stowage Code:  
 SW1 Protected from sources of heat.  
 SW22 For AEROSOLS with a maximum capacity of 1 litre: Category A. For AEROSOLS with a capacity above 1 litre: Category B. For WASTE AEROSOLS: Category C, Clear of living quarters.

Segregation Code:  
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## 15. Regulatory information



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#### U.S. Regulations

##### National Inventory TSCA

All components of the product are publicly listed or excluded.

##### National regulatory information

SARA Section 311/312 Hazards:

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics (64742-48-9): Fire hazard,

Immediate (acute) health hazard

Propane (74-98-6): Fire hazard, Sudden release of pressure

Butane (106-97-8): Fire hazard, Sudden release of pressure

Clean Air Act Section 112(r):

Propane (74-98-6): Threshold quantities = 10,000 lbs.

Butane (106-97-8): Threshold quantities = 10,000 lbs.

#### 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.

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

##### Hazardous Materials Information Label (HMIS)

Health: 0

Flammability: 4

Physical Hazard: 3

##### NFPA Hazard Ratings

Health: 0

Flammability: 4

Reactivity: 3

Unique Hazard:



##### Changes

Revision date: 24.01.2022

Revision No: 1,2

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

##### 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.



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