# DINOL

# Safety Data Sheet

according to 29 CFR 1910.1200(g)

# **DINITROL Penetrant LT Spray**

Revision date: 04/30/2025

Product code: 21701

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#### 1. Identification

# Product identifier

DINITROL Penetrant LT Spray

# Recommended use of the chemical and restrictions on use

#### Use of the substance/mixture

Anti-corrosive coating

# Uses advised against

No further relevant information available.

#### Details of the supplier of the safety data sheet

#### Manufacturer

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

#### Label elements

#### 29 CFR Part 1910.1200

Signal word: Pictograms: Danger



#### Hazard statements

Extremely flammable aerosol Contains gas under pressure; may explode if heated May cause drowsiness or dizziness

#### **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 inhaled: Remove person to fresh air and keep comfortable for breathing.

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

#### <u>Mixtures</u>

#### Hazardous components

CAS No	Components	
	Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics	52.9 %
61789-86-4	calcium sulfonate	2.9 %
111-76-2	2-butoxyethanol; ethylene glycol monobutyl ether	0.9 %

#### **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

Remove contaminated, saturated clothing immediately.

#### After inhalation

Provide fresh air. If breathing is irregular or stopped, administer artificial respiration. Medical treatment necessary. If unconscious but breathing normally, place in recovery position and seek medical advice.

#### After contact with skin

Wash with plenty of water/Soap. Take off immediately all contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention.

#### After contact with eyes

After eye contact: Rinse immediately carefully and thoroughly with eye-bath or water. Consult an ophthalmologist.

#### After ingestion

If swallowed, rinse mouth with water (only if the person is conscious). Call a physician immediately. Do NOT induce vomiting.

#### 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

Carbon dioxide (CO2), Extinguishing powder, Water spray jet

In case of major fire and large quantities: Water spray jet, alcohol resistant foam



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#### 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. Supress 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**

Remove all sources of ignition. 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 uncontrolled discharge of product into the environment. 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

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. Do not breathe gas/fume/vapor/spray.

#### Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges. Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C. Do not pierce or burn, even after use.

#### Advice on general occupational hygiene

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.

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#### Conditions for safe storage, including any incompatibilities

#### Requirements for storage rooms and vessels

Keep container tightly closed. Keep locked up. Store in a place accessible by authorized persons only. Provide adequate ventilation as well as local exhaustion at critical locations. 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

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/m³	f/cc	Category	Origin
111-76-2	2-Butoxyethanol (EGBE)	20	97		TWA (8 h)	ACGIH-2024
111-76-2	2-Butoxyethanol	50	240		TWA (8 h)	PEL
		5	24		TWA (8 h)	REL
75-28-5	Butane: isobutane	1000	2370		STEL (15 min)	ACGIH-2024
106-97-8	Butane: n-butane	1000	2370		STEL (15 min)	ACGIH-2024
75-28-5	Isobutane	800	1900		TWA (8 h)	REL
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
		-	-		Asphyxiant	ACGIH-2024

#### **Biological Exposure Indices (BEI-ACGIH)**

CAS No	Substance	Determinant	Value	Test material	Sampling time
111-76-2		Butoxyacetic acid (BAA) (with hydrolysis, creatinine)	200 mg/g	urine	End of shift

#### 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

Not required.

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

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#### Hand protection

Hand protection is not required.

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

#### ... Inf

Information on basic physical and chemica	l properties				
Physical state:	Aerosol				
Color:	light beige				
Odor:	characteristic				
Odour threshold:	not determined				
		Test method			
Melting point/freezing point:	not determined				
Boiling point or initial boiling point and	-42 °C				
boiling range:					
Flammability:	not applicable				
Lower explosion limits:	0,6 vol. %				
Upper explosion limits:	10,9 vol. %				
Flash point:	< - 20 °C	DIN 53213			
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:	not determined				
Water solubility:	practically insoluble				
Solubility in other solvents					
not determined					
Partition coefficient n-octanol/water:	not determined				
Vapor pressure:	8300 hPa				
(at 20 °C)					
Density (at 20 °C):	0,818 g/cm³	DIN 51757			
Relative vapour density:	not determined				
Other information					
Information with regard to physical haza	ard classes				
Explosive properties					
The product is: not explosive. In use, may form flammable/explosive vapor-air mixture.					
Self-ignition temperature					
Solid:	not applicable				
Gas:	not applicable				
Oxidizing properties					

Other safety characteristics

Not oxidising.

according to 2

not determined

not determined

71.5 %

28.2 %

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Evaporation rate:	not determined

Solvent separation test:

#### **Further Information**

Viscosity / dynamic:

Solvent content:

Solid content:

No information available.

#### 10. Stability and reactivity

#### **Reactivity**

No further relevant information available.

#### **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

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames.

#### Incompatible materials

No 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) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l

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CAS No	Components					
	Exposure route	Dose		Species	Source	Method
	Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics					
	oral LD50 > 5000 Rat mg/kg					
	dermal LD50 > 5000 mg/kg		Rabbit			
	inhalation (4 h) vapour	LC50 > mg/l	> 5000	Rat		
61789-86-4	calcium sulfonate					
	oral	LD50 5 mg/kg	5000	Rat		
	dermal	LD50 > mg/kg	> 2000	Rat		
111-76-2	2-butoxyethanol; ethylene glycol monobutyl ether					
	oral ATE 1200 mg/kg		g/kg			
	inhalation vapour ATE 3 mg/l					

#### 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

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):	2-Butoxyethanol (CAS 111-76-2) is listed in group 3.
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

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# 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

No further relevant information available.

# 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

<u>UN number or ID number:</u>	UN 1950					
Proper shipping name:	AEROSOLS					
Transport hazard class(es):	2.1					
Hazard label:	2.1					
	$\langle \underline{a} \rangle$					
	2					
Marine transport (IMDG)	•					
<u>UN number or ID number:</u>	UN 1950					
UN proper shipping name:	AEROSOLS					
Transport hazard class(es):	2.1					
Packing group:	-					
Hazard label:	2.1					
	2					
Marine pollutant:	no					
Special Provisions:	63, 190, 277, 327, 344, 959					
Limited quantity:	1000 mL					
Excepted quantity:	E0					
EmS:	F-D, S-U					
Segregation group:	bromates					
Air transport (ICAO-TI/IATA-DGR)	Air transport (ICAO-TI/IATA-DGR)					
<u>UN number or ID number:</u>	UN 1950					
UN proper shipping name:	AEROSOLS, FLAMMABLE					



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	DINITROL Penetran						
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<u>Transport hazard class(es):</u>	2.1						
Packing group:	-						
Hazard label:	2.1						
	AND IN THE REAL PROPERTY OF TH						
	2						
Special Provisions:	A145 A167 A802						
Limited quantity Passenger:	1 L						
Passenger LQ: Excepted quantity:	Y203 E0						
IATA-packing instructions - Passenger:	203						
IATA-max. quantity - Passenger:	75						
IATA-packing instructions - Cargo:	203						
IATA-max. quantity - Cargo:	150	kg					
Other applicable information (air transpo	rt)						
E0							
Passenger-LQ: Y203							
Environmental hazards							
ENVIRONMENTALLY HAZARDOUS:	No						
Special precautions for user							
Warning :Flammable liquids							
Transport in bulk according to Annex II of N	ARPOL 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.							
I IIITE. Calegory B. For WASTE AEROSOLS: Calegory C, Clear of living quarters.							
Segregation Code:	Segregation Code:						
		ation as for class 9. Stow "separated from"					
		ove 1 litre: Segregation as for the appropriate					
subdivision of class 2. For WASTE AE	ROSOLS: Segregation as f	or the appropriate					
subdivision of class 2.							
15. Regulatory information							
U.S. Regulations							
National Inventory TSCA							
Substance/product listed in the following inventories: DSL/NDSL							
National regulatory information							
SARA Section 311/312 Hazards:	icoalkanos ovolios <2% a	romatics (-): Fire hazard, Immediate (acute)					
health hazard	150alkalles, cyclics, ~2 /0 al	officience (-). File flazard, infinediate (acute)					
Propane (74-98-6): Fire hazard, Su	dden release of pressure						
	Butane (106-97-8): Fire hazard, Sudden release of pressure						
Isobutane (75-28-5): Fire hazard, S							
calcium sulfonate (61789-86-4): Im							
2-butoxyethanol; ethylene glycol m	onobutyl ether (111-76-2): I	mmediate (acute) health hazard					
Clean Air Act Section 112(r):	Clean Air Act Section 112(r): Property (74.08.6): Threshold quantities = 10.000 lbs						

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

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

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Isobutane (75-28-5): 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.

Directive 2004/42/EC on VOC in	71,52 %
paints and varnishes:	585,1 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

# 16. Other information

Hazardous Materials Identification System (HMIS)	
Health:	0
Flammability:	4
Physical Hazard:	3
NFPA Hazard Ratings	
Health:	0
Flammability:	4
Reactivity:	3
Unique Hazard:	
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#### 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 relevant ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)