# DINOL

# Safety Data Sheet

# according to 29 CFR 1910.1200(g)

# **DINITROL 9100**

Revision date: 01/13/2025

Product code: 10702

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#### 1. Identification

**Product identifier** 

DINITROL 9100

# Recommended use of the chemical and restrictions on use

Use of the substance/mixture

Adhesives, sealants

# Uses advised against

No further relevant information available.

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

#### Manufacturer

	Manulacturer		
	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

Respiratory or skin sensitization: Resp. Sens. 1 Respiratory or skin sensitization: Skin Sens. 1 Carcinogenicity: Carc. 2 Reproductive toxicity: Repr. 1B

#### Label elements

#### 29 CFR Part 1910.1200

Signal word: Pictograms:



#### **Hazard statements**

May cause an allergic skin reaction May cause allergy or asthma symptoms or breathing difficulties if inhaled Suspected of causing cancer May damage fertility or the unborn child

#### Precautionary statements

Obtain special instructions before use.



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Do not handle until all safety precautions have been read and understood.

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

Contaminated work clothing must not be allowed out of the workplace.

Wear protective gloves/protective clothing/eye protection/face protection.

Wear respiratory protection.

If on skin: Wash with plenty of water.

Wash contaminated clothing before reuse.

If inhaled: If breathing is difficult, remove person to fresh air and keep comfortable for breathing.

If experiencing respiratory symptoms: Call a poison center/doctor.

If exposed or concerned: Get medical advice/attention.

Store locked up.

# Hazards not otherwise classified

No information available.

#### 3. Composition/information on ingredients

#### **Mixtures**

#### Hazardous components

CAS No	Components	Quantity
1333-86-4	Carbon Black	49.9 %
101-68-8	4,4'-methylenediphenyl diisocyanate; diphenylmethane-4,4'-diisocyanate	0.9 %
107-66-4	Dibutyl hydrogen phosphate	0.1 %
77-58-7	dibutyltin dilaurate; dibutyl[bis(dodecanoyloxy)]stannane	0.1 %

#### **Further Information**

Full text of H 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.

#### 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.



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#### 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 chemical

No further relevant information available.

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

No further relevant information available.

#### 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**

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 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. 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

No further relevant information available.

# 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.

#### Further information on handling

No further relevant information available.

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

#### Requirements for storage rooms and vessels

No further relevant information available.

#### Hints on joint storage

Not required.

#### Further information on storage conditions

maximum storage temperature : < 35°C minimum storage temperature : > 0°C storage temperature: : 0 - 35°C

#### 8. Exposure controls/personal protection

### **Control parameters**

#### **Exposure limits**

CAS No	Substance	ppm	mg/m³	f/cc	Category	Origin
1333-86-4	Carbon black (in presence of polycyclic aromatic hydrocarbons (PAHs)) (as PAHs)	-	0.1		TWA (8 h)	REL
1333-86-4	Carbon black (inhalable fraction)		3		TWA (8 h)	ACGIH-2024
1333-86-4	Carbon black	-	3.5		TWA (8 h)	PEL
107-66-4	Dibutyl phosphate (inhalable fraction and vapor)	0.6	5		TWA (8 h)	ACGIH-2024
107-66-4	Dibutyl phosphate	1	5		TWA (8 h)	PEL
		1	5		TWA (8 h)	REL
		2	10		STEL (15 min)	REL
101-68-8	Methylene bisphenyl isocyanate (MDI)	C 0.02	C 0.2		Ceiling	PEL
101-68-8	Methylene bisphenyl isocyanate	0.005	0.05		TWA (8 h)	REL
		C 0.02	C 0.2		10 min	REL
101-68-8	Methylene bisphenyl isocyanate	0.005	0.051		TWA (8 h)	ACGIH-2024

#### 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.

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

# Eye/face protection

Eye glasses with side protection (DIN 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. In case of inadequate ventilation wear respiratory protection. gas filtering equipment (EN 141)., Filter material/medium: A/P2

#### 9. Physical and chemical properties

# Information on basic physical and chemical properties

	Physical state:	Paste		
	Color:	black		
	Odor:	characteristic		
	Odour threshold:	not determined		
				Test metho
	Melting point/freezing point:		not determined	
	Boiling point or initial boiling point and		270 °C	
	boiling range:			
	Flammability:		not applicable	
	Lower explosion limits:		not determined	DIN 51649
	Upper explosion limits:		not determined	DIN 51649
	Flash point:		164 °C	
	Auto-ignition temperature:		300 °C	
	Decomposition temperature:		not determined	
	pH-Value:		not determined	
	Viscosity / kinematic:		not determined	
	Water solubility:		Immiscible	
	Solubility in other solvents			
	not determined			
	Partition coefficient n-octanol/water:		not determined	
	Vapor pressure:		not determined	
	Density (at 20 °C):		1,13 - 1,16 g/cm³	
	Relative vapour density:		not determined	
	Particle characteristics:		not applicable	
<u>0</u>	ther information			
	Information with regard to physical haza	ard classes		
	Explosive properties			
	not determined			
	Sustaining combustion:		No data available	
	Oxidizing properties			
	not determined			

Test method

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#### )U(g)

not determined

not determined

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**DINOL GmbH** 

### Other safety characteristics

Softening point: Viscosity / dynamic:

#### **Further Information**

No information available.

#### 10. Stability and reactivity

#### **Reactivity**

No hazardous reaction when handled and stored according to provisions.

Stable

# Chemical stability Stability:

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

No known hazardous decomposition products.

#### 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) > 5000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l

CAS No	No Components						
	Exposure route	Dose		Species	Source	Method	
1333-86-4	4 Carbon Black						
	oral	LD50 mg/kg	> 15400	Rat	GESTIS		
	dermal	LD50 mg/kg	> 3000	Rabbit	GESTIS		
101-68-8	4,4'-methylenediphenyl diisocyanate; diphenylmethane-4,4'-diisocyanate						
	oral	LD50 mg/kg	9200	Rat	GESTIS		
	inhalation vapour ATE 11 mg/l						
inhalation dust/mist ATE 1,5 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.



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#### Sensitizing effects

May cause allergy or asthma symptoms or breathing difficulties if inhaled (4,4'-methylenediphenyl diisocyanate; diphenylmethane-4,4'-diisocyanate)

May cause an allergic skin reaction (4,4'-methylenediphenyl diisocyanate; diphenylmethane-4,4'-diisocyanate)

#### Carcinogenic/mutagenic/toxic effects for reproduction

Suspected of causing cancer (Carbon Black; 4,4'-methylenediphenyl diisocyanate;

diphenylmethane-4,4'-diisocyanate; Dibutyl hydrogen phosphate)

May damage fertility or the unborn child (dibutyltin dilaurate; dibutyl[bis(dodecanoyloxy)]stannane)

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

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

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

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

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

Carcinogenicity (IARC): Carbon black (CAS 1333-86-4) is listed in group 2B. 4,4'-Methylenediphenyl diisocyanate (CAS 101-68-8) is listed in group 3.

#### 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

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 mixture itself.

#### 13. Disposal considerations

## Waste treatment methods

#### **Disposal recommendations**

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



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# RCRA Hazardous wastes (Resource Conservation and Recovery Act)

#### Contaminated packaging

Dispose according to legislation.

# 14. Transport information

#### U.S. DOT 49 CFR 172.101 Proper shipping name:

#### Marine transport (IMDG)

UN number or ID number: UN proper shipping name: Transport hazard class(es): Packing group: Marine pollutant:

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

UN number or ID number: UN proper shipping name: Transport hazard class(es): Packing group:

#### Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

# Special precautions for user

not applicable

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

no

not applicable

#### 15. Regulatory information

#### U.S. Regulations

National Inventory TSCA

Substance/product listed in the following inventories: TSCA

#### National regulatory information

SARA Section 304 CERCLA:

Methylenebis(phenylisocyanate)(MDI) (101-68-8): Reportable quantity = 5,000 (2270) lbs. (kg)

SARA Section 311/312 Hazards:

Carbon Black (1333-86-4): Delayed (chronic) health hazard

Methylenebis(phenylisocyanate)(MDI) (101-68-8): Delayed (chronic) health hazard, Immediate (acute) health hazard

Dibutyl hydrogen phosphate (107-66-4): Delayed (chronic) health hazard, Immediate (acute) health hazard dibutyltin dilaurate; dibutyl[bis(dodecanoyloxy)]stannane (77-58-7): Delayed (chronic) health hazard SARA Section 313 Toxic release inventory:

Methylenebis(phenylisocyanate)(MDI) (101-68-8): De minimis limit = 1.0 %, Reportable threshold = Standard

Clean Air Act Section 112(b):

Methylenebis(phenylisocyanate)(MDI) (101-68-8)

# State Regulations

# Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65, State of California)

WARNING: This product can expose you to chemicals including Carbon black (airborne, unbound particles of respirable size) (cancer), which are known to the State of California to cause cancer, birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

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Directive 2004/42/EC on VOC in	0,0 %	
paints and varnishes:	0,0 g/l	
This mixture contains the following Candidate List according to Article	substances of very high concern (SVHC) which are inclue 59 of REACH: none	ded in the
: 602330		
16. Other information		

<b>Hazardous Materials Identificat</b>	ion System (HMIS)	
Health:	0	
Flammability:	1	
Physical Hazard:	0	
NFPA Hazard Ratings		
Health:	0	
Flammability:	1	
Reactivity:	0	
Unique Hazard:	none	
Changes		
Revision date:	01/13/2025	
Revision No:	1,4	



# This data sheet contains changes from the previous version in section(s): 2,3,15,16. **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 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.)