

according to 29 CFR 1910.1200(g)

DINITROL 9100 HD

Revision date: 12/13/2023

Product code: 11702

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1. Identification

Product identifier

Recommended use of the chemical and restrictions on use

Use of the substance/mixture

DINITROL 9100 HD

Adhesives, sealants

Uses advised against

No further relevant information available.

Details of the supplier of the safety data sheet

Manufacturer

Waltulaciulei		
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	
Emergency 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

Label elements

29 CFR Part 1910.1200

Signal word: Pictograms:



Danger

Hazard statements

May cause an allergic skin reaction May cause allergy or asthma symptoms or breathing difficulties if inhaled Suspected of causing cancer

Precautionary statements

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid breathing dust/fume/gas/mist/vapors/spray.



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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

<u>Mixtures</u>

Hazardous components

CAS No	Components	Quantity
1333-86-4	Carbon Black	49 %
101-68-8	diphenylmethane-4,4'-diisocyanate	0.9 %

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 further relevant information available.

Indication of any immediate medical attention and special treatment needed

No information available.

5. Fire-fighting measures

Extinguishing media



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Suitable extinguishing media

alcohol resistant foam, Carbon dioxide (CO2), Extinguishing powder, Water fog. Co-ordinate fire-fighting measures to the fire surroundings.

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.

Advice on protection against fire and explosion

No special measures are necessary.



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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

Requirements for storage rooms and vessels: none

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-2023
1333-86-4	Carbon black	-	3.5		TWA (8 h)	PEL
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			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 (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.



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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/P2

9. Physical and chemical properties

Information on basic physical and chemical properties

Information on basic physical and che	emical properties	
Physical state:	pasty	
Color:	black	
Odor:	characteristic	
Odour threshold:	not determined	
Melting point/freezing point:		not determined
Boiling point or initial boiling point an	ıd	270 °C
boiling range:		
Flammability:		not applicable
Lower explosion limits:		not determined
Upper explosion limits:		not determined
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
Other information		
Information with regard to physica	l hazard classes	
Explosive properties		
not determined		
Sustaining combustion:		No data available
Oxidizing properties		
not determined		
Other safety characteristics		
Softening point:		not determined
Viscosity / dynamic:		not determined
Further Information		
No information available.		

10. Stability and reactivity

Reactivity

No hazardous reaction when handled and stored according to provisions.

Chemical stability



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DINOL GmbH

Stability:

Stable

The product is stable under storage at normal ambient temperatures.

Possibility of 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) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation

dust/mist) > 5 mg/l

CAS No	Components					
	Exposure route	Dose		Species	Source	Method
1333-86-4	Carbon Black					
	oral	LD50 mg/kg	> 8000	Rat		
101-68-8	diphenylmethane-4,4'-diisocyanate					
	oral	LD50 mg/kg	>2000	Rat		
	dermal	LD50 mg/kg	>9400	Rabbit		
	inhalation vapour	ATE	11 mg/l			
	inhalation dust/mist	ATE	1,5 mg/l			

Irritation and corrosivity

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

Sensitizing effects

May cause allergy or asthma symptoms or breathing difficulties if inhaled (diphenylmethane-4,4'-diisocyanate) May cause an allergic skin reaction (diphenylmethane-4,4'-diisocyanate)

Carcinogenic/mutagenic/toxic effects for reproduction

Suspected of causing cancer (Carbon Black; diphenylmethane-4,4'-diisocyanate) Germ cell mutagenicity: 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

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 (OSHA): No ingredient of this mixture is listed.

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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.				
Carcinogenicity (NTP):	No ingredient of this mixture is listed.				
Aspiration hazard Based on available data, the cla	assification criteria are not met.				
Specific effects in experiment on No information available.	an animal				
Additional information on tests No information available.					
Practical experience No information available.					
Information on other hazards					
Endocrine disrupting properties Endocrine disrupting potential I	No information available.				
Further information There are no data available on	the preparation/mixture itself.				
12. Ecological information					
<u>Persistence and degradability</u> There are no data available on	the mixture itself				
Bioaccumulative potential					
There are no data available on	the mixture itself.				
<u>Mobility in soil</u> There are no data available on	<u>Mobility in soil</u> 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 surface water or drains.	applicable legislation. Do not mix with other wastes. Do not allow to enter into				
Contaminated packaging Dispose according to legislation.					
14. Transport information					
U.S. DOT 49 CFR 172.101					
Proper shipping name:	No dangerous good in sense of this transport regulation.				
Marine transport (IMDG) <u>UN number or ID number:</u>	No dangerous good in sense of this transport regulation.				
UN proper shipping name:	No dangerous good in sense of this transport regulation.				
<u>Transport hazard class(es):</u> Packing group:	No dangerous good in sense of this transport regulation. No dangerous good in sense of this transport regulation.				



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Marine pollutant:	no	
Air transport (ICAO-TI/IATA-DGR)		
UN number or ID number:	No dangerous good in sense of this transport regulation.	
UN proper shipping name:	No dangerous good in sense of this transport regulation.	
<u>Transport hazard class(es):</u>	No dangerous good in sense of this transport regulation.	
Packing group:	No dangerous good in sense of this transport regulation.	
Environmental hazards		
ENVIRONMENTALLY HAZARDOU	S: No	
Special precautions for user No dangerous good in sense of	this transport regulation	
	c II of MARPOL 73/78 and the IBC Code	
No dangerous good in sense of		
15. Regulatory information		
U.S. Regulations		
National Inventory TSCA		
Substance/product listed in the f	following inventories: TSCA	
National regulatory information		
SARA Section 304 CERCLA:		
	ate)(MDI) (101-68-8): Reportable quantity = 5,000 (2270) lbs. (kg)	
SARA Section 311/312 Hazards		
	Delayed (chronic) health hazard hate)(MDI) (101-68-8): Delayed (chronic) health hazard, Immediate (acute)	
health hazard		
SARA Section 313 Toxic release	e inventory:	
	ate)(MDI) (101-68-8): De minimis limit = 1.0 %, Reportable threshold =	
Standard		
Clean Air Act Section 112(b):		
Methylenebis(phenylisocyan	ate)(MDI) (101-68-8)	
State Regulations		
-	forcement Act of 1986 (Proposition 65, State of California)	
-	pose you to chemicals including Carbon black (airborne, unbound particles of	
	are known to the State of California to cause cancer, birth defects or other	
	ormation go to www.P65Warnings.ca.gov.	
Directive 2004/42/EC on VOC in	0,00 %	
paints and varnishes:	0,00 g/l	
Candidate List according to Artic	ing substances of very high concern (SVHC) which are included in the cle 59 of REACH: none	
16. Other information		
Hazardous Materials Identification		
Health:	0	
Flammability:	1	
Physical Hazard:	0	
NFPA Hazard Ratings		
Health:	0	
Flammability:	1	0 0
Reactivity		👻 none 🗸

Revision No: 1,3 - Replaces version: 1,2

Unique Hazard:

Reactivity:

0

none



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Revision date:	12/13/2023		
Revision No:	1,3		
Abbreviations and acronyms			
ADR: Accord européen sur le	transport des marchandises dangereuses par Route		
(European Agreement conce	ning the International Carriage of Dangerous Goods by Road)		
IMDG: International Maritime	Code for Dangerous Goods		
IATA: International Air Transp	ort 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.)