

Safety Data Sheet

according to 29 CFR 1910.1200(g)

DINITROL PVC PA 283 O2

Revision date: 02/02/2026

Product code: 92832

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1. Identification**Product identifier**

DINITROL PVC PA 283 O2

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

Barrier (Sealant)

Uses advised against

No further relevant information available.

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**

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Classification of the chemical**29 CFR Part 1910.1200**

Acute toxicity: Acute Tox. 4 (inhalation)
Skin corrosion/irritation: Skin Irrit. 2
Serious eye damage/eye irritation: Eye Dam. 1
Respiratory or skin sensitization: Skin Sens. 1

Label elements**29 CFR Part 1910.1200****Signal word:** Danger**Pictograms:****Hazard statements**

Causes skin irritation
May cause an allergic skin reaction
Causes serious eye damage
Harmful if inhaled

Precautionary statements

Avoid breathing dust/fume/gas/mist/vapors/spray.
Use only outdoors or in a well-ventilated area.
Contaminated work clothing must not be allowed out of the workplace.
Wear protective gloves/protective clothing/eye protection/face protection.
If skin irritation or rash occurs: Get medical advice/attention.
Take off contaminated clothing and wash it before reuse.
If inhaled: Remove person to fresh air and keep comfortable for breathing.
Call a poison center/doctor if you feel unwell.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
Continue rinsing.
Immediately call a poison center/doctor.

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Hazards not otherwise classified

No information available.

3. Composition/information on ingredients**Mixtures****Relevant ingredients**

CAS No	Components	Quantity
1305-78-8	Calcium oxide	19 %
461-58-5	Dicyandiamide	9 %
1675-54-3	4,4'-Methylen-diphenyldiglycidylether	4.9 %

Further Information

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

The homogeneous mixing of this product is controlled by continuous physical tests. Formerly dusty raw materials are completely integrated into the liquid/pasty mass. Possible AGW-values for solid substances are therefore not given, as there is no longer any risk of inhalation of these substances (when handling this mixture).

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.

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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****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. 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

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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. 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

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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.

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 in a cool, well-ventilated place.

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

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Exposure limits

CAS No	Substance	ppm	mg/m ³	Category	Origin
1305-78-8	Calcium oxide	-	5	TWA (8 h)	PEL
		-	2	TWA (8 h)	REL
		-	2	TWA (8 h)	ACGIH-2025
9002-86-2	Polyvinyl chloride (respirable fraction)	-	1	TWA (8 h)	ACGIH-2025
1314-13-2	Zinc oxide (Dust)	-	5	TWA (8 h)	REL
		-	C 15	Ceiling	REL
1314-13-2	Zinc oxide (respirable fraction)	-	2	TWA (8 h)	ACGIH-2025
		-	10	STEL (15 min)	ACGIH-2025
1314-13-2	Zinc oxide Respirable fraction	-	5	TWA (8 h)	PEL

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.

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NBR (Nitrile rubber) penetration time (maximum wearing period): 480 min.

Thickness of the glove material : > 0,12 mm

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.

9. Physical and chemical properties

Information on basic physical and chemical properties

Physical state:	pasty	
Color:	gray	
Odor:	characteristic	
Odour threshold:	not determined	
Melting point/freezing point:		not determined
Boiling point or initial boiling point and boiling range:		not determined
Flammability:		not determined
Lower explosion limits:		not determined
Upper explosion limits:		not determined
Flash point:		> 180 °C
Auto-ignition temperature:		not determined
Decomposition temperature:		not determined
pH-Value:		not applicable
Viscosity / kinematic:		not applicable
Water solubility:		Immiscible
Solubility in other solvents		
not determined		

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Partition coefficient n-octanol/water:	not determined
Vapor pressure:	not applicable
Density (at 20 °C):	1,54 g/cm ³
Relative vapour density:	not determined
Particle characteristics:	not applicable

Other information**Information with regard to physical hazard classes**

Explosive properties

not determined

Sustained combustibility:

No data available

Oxidizing properties

not determined

Other safety characteristics

Softening point:

not determined

Viscosity / dynamic:

21000 mPa·s

(at 20 °C)

Further Information

No information available.

10. Stability and reactivity**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.

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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**

Harmful if inhaled

ATEmix calculated

ATE (oral) > 5000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) 4,902 mg/l

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CAS No	Components				
	Exposure route	Dose	Species	Source	Method
461-58-5	Dicyandiamide				
	oral	LD50 > 10000 mg/kg	Rat		
	dermal	LD50 > 5000 mg/kg	Rabbit		
	inhalation vapour	ATE 3 mg/l			
	inhalation dust/mist	ATE 0,5 mg/l			
1675-54-3	4,4'-Methylen-diphenyldiglycidylether				
	oral	LD50 > 15000 mg/kg	Rat		
	dermal	LD50 23000 mg/kg	Rabbit		

Irritation and corrosivity

Skin corrosion/irritation: Causes skin irritation

Serious eye damage/eye irritation: Causes serious eye damage

Sensitizing effects

May cause an allergic skin reaction (4,4'-Methylen-diphenyldiglycidylether)

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

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): Polyvinyl chloride (CAS 9002-86-2) is listed in group 3. Bisphenol A diglycidyl ether (Araldite) (CAS 1675-54-3) 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

Ecotoxicity

CAS No	Components					
	Aquatic toxicity	Dose	[h] [d]	Species	Source	Method
461-58-5	Dicyandiamide					
	Acute fish toxicity	LC50 mg/l	7700	96 h		
	Acute crustacea toxicity	EC50 mg/l	3180	48 h	Daphnia magna (Big water flea)	

Persistence and degradability

There are no data available on the mixture itself.

Bioaccumulative potential

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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.

Contaminated packaging

Dispose according to legislation.

14. Transport information**U.S. DOT 49 CFR 172.101****UN number or ID number:**

UN 3077

Proper shipping name:

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

Transport hazard class(es):

9

Packing group:

III

Hazard label:

9



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Special Provisions: 8, 146, 335, 384, 441, A112, B54, B120, IB8, IP3, N20, N91, T1, TP33
 Limited quantity: No limit

Marine transport (IMDG)

UN number or ID number: UN 3077
UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
Transport hazard class(es): 9
Packing group: III
 Hazard label: 9



Special Provisions: 274 335 375 966 967 969
 Limited quantity: 5 kg
 Excepted quantity: E1
 EmS: F-A, S-F

Air transport (ICAO-TI/IATA-DGR)

UN number or ID number: UN 3077
UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
Transport hazard class(es): 9
Packing group: III
 Hazard label: 9



Special Provisions: A97 A158 A179 A197 A215
 Limited quantity Passenger: 30 kg G
 Passenger LQ: Y956
 Excepted quantity: E1
 IATA-packing instructions - Passenger: 956
 IATA-max. quantity - Passenger: 400 kg
 IATA-packing instructions - Cargo: 956

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IATA-max. quantity - Cargo: 400 kg

Environmental hazards

ENVIRONMENTALLY HAZARDOUS: Yes

**Special precautions for user**

Warning: Hazardous ingredients
(zinc oxide; 4,4'-Methylen-diphenyldiglycidylether)

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:

Calcium oxide (1305-78-8): Immediate (acute) health hazard

Dicyandiamide (461-58-5): Immediate (acute) health hazard

4,4'-Methylen-diphenyldiglycidylether (1675-54-3): Immediate (acute) health hazard

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

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Hazardous Materials Identification System (HMIS)

Health:	3
Flammability:	1
Physical Hazard:	0

NFPA Hazard Ratings

Health:	3
Flammability:	1
Reactivity:	0
Unique Hazard:	none



Changes

Revision date: 02/02/2026

Revision No: 1,7

This data sheet contains changes from the previous version in section(s): 2,8,9,11,14,16.

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.



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

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