

**Safety Data Sheet**

according to UK REACH Regulation

**DINITROL PVC PA 283 O2**

Revision date: 14.01.2025

Product code: 92832

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**SECTION 1: Identification of the substance/mixture and of the company/undertaking**
**1.1. Product identifier**

DINITROL PVC PA 283 O2

UFI: N239-T8SR-Y00C-3785

**1.2. Relevant identified uses of the substance or mixture and uses advised against**
**Use of the substance/mixture**

Barrier (Sealant)

**Uses advised against**

No further relevant information available.

**1.3. 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	
Responsible Department:	msds@dinol.com	

**Supplier**

Company name:	Leading Solvent Supplies Limited
Street:	Marston Business Park, Rudgate
Place:	GB Tockwith, York YO26 7QF
E-mail:	enquiries@leading-solvents.co.uk
Internet:	www.leading-solvents.co.uk

**1.4. Emergency telephone number:**

Giftnotruf Berlin: +49 30 30686 700 (Beratung in Deutsch und Englisch)

**SECTION 2: Hazards identification**
**2.1. Classification of the substance or mixture**
**GB CLP Regulation**

Skin Irrit. 2; H315  
 Eye Dam. 1; H318  
 Skin Sens. 1; H317  
 Aquatic Chronic 2; H411

Full text of hazard statements: see SECTION 16.

**2.2. Label elements**
**GB CLP Regulation**
**Hazard components for labelling**

Calcium oxide  
 4,4'-Methylen-diphenyldiglycidylether

**Signal word:** Danger

**Pictograms:**


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**Hazard statements**

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H411	Toxic to aquatic life with long lasting effects.

**Precautionary statements**

P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER/doctor.
P362+P364	Take off contaminated clothing and wash it before reuse.

**Special labelling of certain mixtures**

EUH212	Warning! Hazardous respirable dust may be formed when used. Do not breathe dust. Restricted to professional users.
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**Labelling of packages where the contents do not exceed 125 ml**
**Signal word:** Danger

**Pictograms:**

**Hazard statements**

H317-H318

**Precautionary statements**

P261-P305+P351+P338-P310-P362+P364

**2.3. Other hazards**

No information available.

**SECTION 3: Composition/information on ingredients**
**3.2. Mixtures**
**Relevant ingredients**

CAS No	Chemical name	Quantity
	EC No	
	Index No	
	REACH No	
	Classification (GB CLP Regulation)	
1305-78-8	Calcium oxide	15 - < 20 %
	215-138-9	01-2119475325-36
	Skin Irrit. 2, Eye Dam. 1, STOT SE 3; H315 H318 H335	
1314-13-2	zinc oxide	1 - < 5 %
	215-222-5	030-013-00-7
	01-2119463881-32	
	Aquatic Acute 1, Aquatic Chronic 1; H400 H410	
1675-54-3	4,4'-Methylen-diphenyldiglycidylether	1 - < 5 %
	216-823-5	603-073-00-2
	01-2119456619-26	
	Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1, Aquatic Chronic 2; H315 H319 H317 H411	
13463-67-7	titanium dioxide	1 - < 5 %
	236-675-5	022-006-00-2
	01-2119489379-17	
	Carc. 2; H351	

Full text of H and EUH statements: see section 16.

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**Specific Conc. Limits, M-factors and ATE**

CAS No	EC No	Chemical name	Quantity
		Specific Conc. Limits, M-factors and ATE	
1314-13-2	215-222-5	zinc oxide	1 - < 5 %
		inhalation: LC50 = > 2500 mg/l (dusts or mists); oral: LD50 = > 7950 mg/kg Aquatic Acute 1; H400: M=1 Aquatic Chronic 1; H410: M=1	
1675-54-3	216-823-5	4,4'-Methylen-diphenyldiglycidylether	1 - < 5 %
		dermal: LD50 = 23000 mg/kg; oral: LD50 = > 15000 mg/kg Skin Irrit. 2; H315: >= 5 - 100 Eye Irrit. 2; H319: >= 5 - 100	
13463-67-7	236-675-5	titanium dioxide	1 - < 5 %
		dermal: LD50 = > 10000 mg/kg; oral: LD50 = > 20000 mg/kg	

**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).

**SECTION 4: First aid measures**
**4.1. 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.

**4.2. Most important symptoms and effects, both acute and delayed**

No further relevant information available.

**4.3. Indication of any immediate medical attention and special treatment needed**

No information available.

**SECTION 5: Firefighting measures**
**5.1. Extinguishing media**
**Suitable extinguishing media**

alcohol resistant foam, Carbon dioxide (CO<sub>2</sub>), Extinguishing powder, Water fog.

Co-ordinate fire-fighting measures to the fire surroundings.

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#### Unsuitable extinguishing media

High power water jet.

#### **5.2. Special hazards arising from the substance or mixture**

No further relevant information available.

#### **5.3. Advice for firefighters**

No further relevant information available.

#### **Additional information**

Use water spray jet to protect personnel and to cool endangered containers. Suppress gases/vapours/mists with water spray jet.

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

### SECTION 6: Accidental release measures

#### **6.1. 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/vapours/spray.

##### **For emergency responders**

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

#### **6.2. 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.

#### **6.3. 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.

#### **6.4. Reference to other sections**

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

### SECTION 7: Handling and storage

#### **7.1. 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.

##### **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.

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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.

**7.2. 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.

**7.3. Specific end use(s)**

No further relevant information available.

**SECTION 8: Exposure controls/personal protection**
**8.1. Control parameters**
**Exposure limits (EH40)**

CAS No	Substance	ppm	mg/m <sup>3</sup>	fibres/ml	Category	Origin
1305-78-8	Calcium oxide	-	2		TWA (8 h)	WEL
9002-86-2	Polyvinyl chloride, inhalable dust	-	10		TWA (8 h)	WEL
13463-67-7	Titanium dioxide, total inhalable	-	10		TWA (8 h)	WEL

**DNEL/DMEL values**

CAS No	Substance	Exposure route	Effect	Value
1305-78-8	Calcium oxide			
	Worker DNEL, long-term	inhalation	local	1 mg/m <sup>3</sup>
	Worker DNEL, acute	inhalation	local	4 mg/m <sup>3</sup>
	Consumer DNEL, long-term	inhalation	local	1 mg/m <sup>3</sup>
	Consumer DNEL, acute	inhalation	local	4 mg/m <sup>3</sup>
1314-13-2	zinc oxide			
	Worker DNEL, long-term	inhalation	systemic	5 mg/m <sup>3</sup>
	Worker DNEL, long-term	inhalation	local	0,5 mg/m <sup>3</sup>
	Worker DNEL, long-term	dermal	systemic	83 mg/kg bw/day
	Consumer DNEL, long-term	inhalation	systemic	2,5 mg/m <sup>3</sup>
	Consumer DNEL, long-term	dermal	systemic	83 mg/kg bw/day
	Consumer DNEL, long-term	oral	systemic	0,83 mg/kg bw/day
1675-54-3	4,4'-Methylen-diphenyldiglycidylether			
	Consumer DNEL, long-term	dermal	systemic	3,6 mg/kg bw/day
	Consumer DNEL, long-term	inhalation	systemic	0,75 mg/m <sup>3</sup>
	Consumer DNEL, long-term	oral	systemic	0,75 mg/kg bw/day
	Worker DNEL, acute	dermal	systemic	8,3 mg/kg bw/day
	Worker DNEL, acute	inhalation	systemic	12,3 mg/m <sup>3</sup>

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**PNEC values**

CAS No	Substance	Value
Environmental compartment		
1305-78-8	Calcium oxide	
Freshwater		0,37 mg/l
Marine water		0,24 mg/l
Micro-organisms in sewage treatment plants (STP)		2,27 mg/l
Soil		817,4 mg/kg
1314-13-2	zinc oxide	
Freshwater		0,0206 mg/l
Marine water		0,0061 mg/l
Freshwater sediment		117,8 mg/kg
Marine sediment		56,5 mg/kg
Micro-organisms in sewage treatment plants (STP)		0,100 mg/l
Soil		35,6 mg/kg
1675-54-3	4,4'-Methylen-diphenyldiglycidylether	
Freshwater sediment		0,5 mg/kg
Marine sediment		0,5 mg/kg
Micro-organisms in sewage treatment plants (STP)		10 mg/l

**8.2. 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.

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.

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**SECTION 9: Physical and chemical properties**
**9.1. Information on basic physical and chemical properties**

Physical state:	pasty	
Colour:	grey	
Odour:	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	
Partition coefficient n-octanol/water:		not determined
Vapour pressure:		not applicable
Density (at 20 °C):		1,52 g/cm <sup>3</sup>
Relative vapour density:		not determined
Particle characteristics:		not applicable

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

Explosive properties		
	not determined	
Sustaining combustion:		No data available
Oxidizing properties		
	not determined	

**Other safety characteristics**

Softening point:		not determined
Viscosity / dynamic: (at 20 °C)		21000 mPa·s

**Further Information**

No information available.

**SECTION 10: Stability and reactivity**
**10.1. Reactivity**

No hazardous reaction when handled and stored according to provisions.

**10.2. Chemical stability**

The product is stable under storage at normal ambient temperatures.

**10.3. Possibility of hazardous reactions**

No known hazardous reactions.

**10.4. Conditions to avoid**

No further relevant information available.

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**10.5. Incompatible materials**

No information available.

**10.6. Hazardous decomposition products**

No known hazardous decomposition products.

**SECTION 11: Toxicological information**
**11.1. Information on hazard classes as defined in GB CLP Regulation**
**Acute toxicity**

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

**ATEmix calculated**

ATE (oral) &gt; 2000 mg/kg; ATE (dermal) &gt; 2000 mg/kg; ATE (inhalation vapour) &gt; 20 mg/l; ATE (inhalation dust/mist) &gt; 5 mg/l

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
1314-13-2	zinc oxide				
	oral	LD50 > 7950 mg/kg	Rat		
	inhalation (4 h) dust/mist	LC50 > 2500 mg/l	Rat		
1675-54-3	4,4'-Methylen-diphenyldiglycidylether				
	oral	LD50 > 15000 mg/kg	Rat		
	dermal	LD50 23000 mg/kg	Rabbit		
13463-67-7	titanium dioxide				
	oral	LD50 > 20000 mg/kg	Rat		
	dermal	LD50 > 10000 mg/kg	Rabbit		

**Irritation and corrosivity**

Skin corrosion/irritation: Causes skin irritation.

Serious eye damage/eye irritation: Causes serious eye damage.

**Sensitising 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.

**STOT-single exposure**

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

**STOT-repeated exposure**

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

**Aspiration hazard**

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

**Information on likely routes of exposure**

No information available.

**Specific effects in experiment on an animal**

No information available.

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**Additional information on tests**

No information available.

**Practical experience**

No information available.

**11.2. 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.

**SECTION 12: Ecological information**
**12.1. Toxicity**

Toxic to aquatic life with long lasting effects.

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h]   [d]	Species	Source	Method
1314-13-2	zinc oxide					
	Acute fish toxicity	LC50 mg/l	1120	96 h	fish	GESTIS
	Acute crustacea toxicity	EC50 mg/l	12,3	48 h		GESTIS

**12.2. Persistence and degradability**

There are no data available on the mixture itself.

**12.3. Bioaccumulative potential**

There are no data available on the mixture itself.

**12.4. Mobility in soil**

There are no data available on the mixture itself.

**12.5. Results of PBT and vPvB assessment**

The substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH.

**12.6. 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.

**12.7. Other adverse effects**

No information available.

**Further information**

There are no data available on the mixture itself.

**SECTION 13: Disposal considerations**
**13.1. Waste treatment methods**
**Disposal recommendations**

Dispose of waste according to applicable legislation.

Do not mix with other wastes.

**List of Wastes Code - residues/unused products**

080409 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU of adhesives and sealants (including waterproofing products); waste adhesives and sealants containing organic solvents or other hazardous substances; hazardous waste

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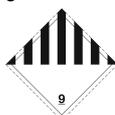
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**Contaminated packaging**

Dispose according to legislation.

**SECTION 14: Transport information**
**Land transport (ADR/RID)**

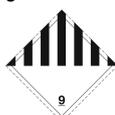
<b>14.1. UN number or ID number:</b>	UN 3082
<b>14.2. UN proper shipping name:</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (zinc oxide; 4,4'-Methylen-diphenyldiglycidylether)
<b>14.3. Transport hazard class(es):</b>	9
<b>14.4. Packing group:</b>	III
Hazard label:	9



Classification code:	M6
Special Provisions:	274 335 375 601
Limited quantity:	5 L
Excepted quantity:	E1
Transport category:	3
Hazard No:	90
Tunnel restriction code:	-

**Inland waterways transport (ADN)**

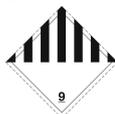
<b>14.1. UN number or ID number:</b>	UN 3082
<b>14.2. UN proper shipping name:</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (zinc oxide; 4,4'-Methylen-diphenyldiglycidylether)
<b>14.3. Transport hazard class(es):</b>	9
<b>14.4. Packing group:</b>	III
Hazard label:	9



Classification code:	M6
Special Provisions:	274 335 375 601
Limited quantity:	5 L
Excepted quantity:	E1

**Marine transport (IMDG)**

<b>14.1. UN number or ID number:</b>	UN 3082
<b>14.2. UN proper shipping name:</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
<b>14.3. Transport hazard class(es):</b>	9
<b>14.4. Packing group:</b>	III
Hazard label:	9



Special Provisions:	274 335 969
Limited quantity:	5 L
Excepted quantity:	E1
EmS:	F-A, S-F

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

<b>14.1. UN number or ID number:</b>	UN 3082
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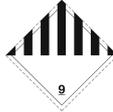
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**14.2. UN proper shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
**14.3. Transport hazard class(es):** 9  
**14.4. Packing group:** III  
 Hazard label: 9



Special Provisions: A97 A158 A197 A215  
 Limited quantity Passenger: 30 kg G  
 Passenger LQ: Y964  
 Excepted quantity: E1  
 IATA-packing instructions - Passenger: 964  
 IATA-max. quantity - Passenger: 450 L  
 IATA-packing instructions - Cargo: 964  
 IATA-max. quantity - Cargo: 450 L

**14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: Yes


**14.6. Special precautions for user**

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

**14.7. Maritime transport in bulk according to IMO instruments**

not applicable

**Other applicable information**

Hazchem code: •3Z

**SECTION 15: Regulatory information**
**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**
**EU regulatory information**

Restrictions on use (REACH, annex XVII):  
 Entry 75

Directive 2004/42/EC on VOC in paints and varnishes: 0,00 %  
 0,00 g/l  
 Information according to Directive 2012/18/EU (SEVESO III): E2 Hazardous to the Aquatic Environment

**Additional information**

Observe in addition any national regulations!  
 Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work

**National regulatory information**

Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

Water hazard class (D): 2 - obviously hazardous to water

**Additional information**

This mixture contains the following substances of very high concern (SVHC) which are included in the

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Candidate List according to Article 59 of REACH: none

#### 15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

### SECTION 16: Other information

#### Changes

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

#### Abbreviations and acronyms

Skin Irrit: Skin irritation

Eye Dam: Eye damage

Eye Irrit: Eye irritation

Skin Sens: Skin sensitisation

Carc: Carcinogenicity

STOT SE: Specific target organ toxicity - single exposure

Aquatic Acute: Acute aquatic hazard

Aquatic Chronic: Chronic aquatic hazard

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%

#### Classification for mixtures and used evaluation method according to GB CLP Regulation

Classification	Classification procedure
Skin Irrit. 2; H315	Calculation method
Eye Dam. 1; H318	Calculation method
Skin Sens. 1; H317	Calculation method
Aquatic Chronic 2; H411	Calculation method

#### Relevant H and EUH statements (number and full text)

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H351	Suspected of causing cancer.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
EUH212	Warning! Hazardous respirable dust may be formed when used. Do not breathe dust.

#### Further Information

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.

This safety data sheet complies with Regulation (EC) No 1907/2006, Article 31 as amended by Regulation (EU) 2020/878.

**Safety Data Sheet**

according to UK REACH Regulation

**DINITROL PVC PA 283 O2**

Revision date: 14.01.2025

Product code: 92832

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