

# **Material Safety Data Sheet**

PVA Item No.: 100315, 100317

## Specific hazards

Dusts may irritate the respiratory tract, skin and eyes. Exposed may experience eye tearing, redness, and discomfort. Liberated dust may irritate throat and respiratory system and cause coughing. Prolonged contact may cause dryness of the skin. Fine particles may form explosive mixtures with air.

Label elements Label according to Regulation (EC) Contains: Hazard statements:	No. 1272/2008 as amended Polyvinyl alcohol compound
Contains:	
Contains:	
	Polyvinyl alcohol compound
Hazard statements:	
Hazard statements:	
	The mixture does not meet the criteria for classification.
Precautionary statements	
Prevention:	Use personal protective equipment as required.
Response:	No specific first aid measures noted.
Storage:	Store in a dry place. Store in a closed container.
Disposal:	Dispose of waste and residues in accordance with local
	authority requirements.
Supplemental label information	None.
Other hazards	Additional information is given in the Material Safety Data Sheet.
Substance(s) formed under the conditions of use	Not applicable
	Response: Storage: Disposal: Supplemental label information Other hazards Substance(s) formed under the

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SECTION 2: Composition/information on ingredients				Eye contact Do not rub ey		
Mixture						Ingestion
General information						Rinse mouth.
	1					Most import
Chemical name	%	CAS-No. / EC No.	REACH Registration No.	INDEX No.	Notes	Contact with
Polyvinyl alcohol compund	>96		( ) · · · · · · · · · · · · · · · · · ·	5 ·	•	Indication of
Classification: DSD: CLP:	-					Provide gene
Chemical name	%	CAS-No. / EC No.	REACH Registration No.	INDEX No.	Notes	
Methanol (Impurity)	<0,5	67-56-1	01-2119433307-44-XXXX	603-001-00-X		General fire
#: This substance has workplace expo	sure limit(s)					The product i which may ca
Classification: DSD:	F:R11.T	;R23/24/25-39/	23/24/25			
CLP:			e Tox. 3;H301, Acute Tox. 3	3;H311, Acute To	ox. 3;H331,	Extinguishin
	STOT SE	1;H370				Suitable exti
Composition comments		Sec. 1				Use fire-extin
All concentrations are in p concentrations are in perc			s ingredient is a gas. Gas			Unsuitable e
The full text for all R- and	Contraction of the		section 16.			Do not use a s
Barra alexander an Aria			Service and	94065535	1.000	Special haza
	SE	CTION 3: Firs	at aid measures			During fire, ga
Description of first aid n	neasures	1				Advice for fir
Inhalation						Special prote
If dust from the material is	inhaled	, remove the af	fected person immediatel	ly to fresh air. Ca	all a physi-	Selection of re
cian if symptoms develop				Per la		workplace. Se fire.
Skin contact						
Rinse skin with water. Get	medical	attention if irrit	ation develops and persis	sts.		Special firefig

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eye. Rinse with water. Get medical attention if irritation develops and persists.

h. If ingestion of a large amount does occur, call a poison control centre immediately.

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rtant symptoms and effects, both acute and delayed h dust: Irritation of eyes and mucous membranes. Coughing.

of any immediate medical attention and special treatment needed neral supportive measures and treat symptomatically.

## **SECTION 4: Firefighting measures**

## hazards

is not flammable. The product may form dust and can accumulate electrostatic charges, cause an electrical spark (ignition source). Use proper grounding procedures.

ing media

tinguishing media nguishing media appropriate for surrounding materials.

extinguishing media solid water stream as it may scatter and spread fire.

ards arising from the substance or mixture gases hazardous to health may be formed.

irefighters

## tective equipment for firefighters

respiratory protection for fire fighting: follow the general fire precautions indicated in the elf-contained breathing apparatus and full protective clothing must be worn in case of

fighting procedures

Use standard firefighting procedures and consider the hazards of other involved materials.

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## SECTION 5: Accidental release measures

## Personal precautions, protective equipment and emergency procedures

### For non-emergency personnel

Avoid inhalation of dust and contact with skin and eyes. Wear appropriate personal protective equipment.

## For emergency responders

Use personal protection recommended in Section 8 of the SDS.

## **Environmental precautions**

Environmental manager must be informed of all major spillages.

## Methods and material for containment and cleaning up

Avoid dust formation. Collect dust or particulates using a vacuum cleaner with a HEPA filter. Do not use compressed air when cleaning. For waste disposal, see section 13.

## **Reference to other sections**

For personal protection, see section 8. For waste disposal, see section 13.

## SECTION 6: Handling and storage

## Precautions for safe handling

Avoid inhalation of dust and contact with skin and eyes. Wear appropriate personal protective equipment. Wash hands after handling. Observe good industrial hygiene practices. Maintenance: Use work methods which minimise dust production. Use only in well-ventilated areas. Take precautionary measures against static discharges when there is a risk of dust explosion.

## Conditions for safe storage, including any incompatibilities

Keep in original container. Store in a cool, dry, well-ventilated place. Store away from incompatible materials. Read and follow manufacturer's recommendations.

## Specific end use(s)

Thermoplastic processing.

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## SECTION 7: Exposure controls/personal protection

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**Control parameters** 

**Occupational exposure limits** 

UK. EH40 Workplace Exposure Limits (WELs)

Components	Туре	Value	Form
Dust (-)	TWA	4 mg/m3	Resipirable dust
		10 mg/m3	Inhalable dust.
Methanol (Impurity) (67-56-1)	STEL	333 mg/m3	1
	and the state of the	250ppm	
	TWA	266 mg/m3	Same Char
		200 ppm	

EU. Indicative Exposure and Directives relating to the protection of risks related to work exposure to chemical, physical, and biological agents.

Components	Туре	Value	Form
Methanol (Impurity) (67-56-1)	TWA	260 mg/m3	
		200 ppm	

**Recommended monitoring procedures** 

Not available.

DNEL Not available.

PNEC Not available.



## **Exposure controls**

## Appropriate engineering controls

Provide sufficient ventilation for operations causing dust formation. Follow above occupational exposure limit values for dusts. Ventilate as needed to control airborne dust. Use explosion-proof electrical equipment if airborne dust levels are high.

Individual protection measures, such as personal protective equipment

### **General information**

Personal protective equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.

## Eye/face protection

Risk of contact: Wear approved safety goggles.

### **Skin protection**

Hand protection: It is a good industrial hygiene practice to minimise skin contact. For Other:

prolonged or repeated skin contact use suitable protective gloves. Wear suitable protective clothing. It is a good industrial hygiene practice to minimise skin contact.

#### **Respiratory protection**

In case of inadequate ventilation or risk of inhalation of dust, use suitable respiratory equipment with particle filter (type P2).

## Thermal hazards

Wear appropriate thermal protective clothing, when necessary. Hygiene measures Handle in accordance with good industrial hygiene and safety practices. Routinely wash work clothing and protective equipment to remove contaminants.

## **Environmental exposure controls**

Contain spills and prevent releases and observe national regulations on emissions.

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**SECTION 8: Physical and chemical properties** 

Information on basic physical and chemical properties Appearance Pellets. **Physical state** Solid. Form Pellets. Colour Not available. Odour Not available **Odour threshold** Not available. pH Not applicable. Melting point/freezing point Not available. **Boiling point, initial boiling** Not applicable point, and boiling range Flash point Not applicable.

Auto-ignition temperature

Flammability (solid, gas)

Flammability limit - lower (%)

Flammability limit - upper (%)

**Oxidising properties** 

**Explosive properties** 

**Explosive limit** 

Vapour pressure

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Not applicable.

Not available.

Not available.

Not available.

Not applicable.

Not applicable.

Not applicable.

Not applicable.





Vapour density	Not applicable.
Evaporation rate	Not applicable.
Relative density	Not available.
Solubility (water)	Not available.
Partition coefficient (n-octanol/water)	Not data available.
Decomposition temperature	No available.
Viscosity	Not available.
Percent volatile	< 4 % w/w
Other information	No relevant additional information available.

## SECTION 10: Toxicological information

General information

Dusts or powder may irritate the respiratory tract, skin and eyes.

Information on likely routes	of exposure
Ingestion	May cause discomfort if swallowed.
Inhalation	Dust irritates the respiratory system, and may cause coughing and difficulties in breathing.
Skin contact	Dust may irritate skin.
Eye contact	Dust may irritate the eyes.

Symptoms

Dust may irritate throat and respiratory system and cause coughing. Direct contact with eyes may cause temporary irritation.

## Information on toxicological effects

SECTION	9: Stability	y and reactivity
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Reactivity	Stable at normal conditions.	Acute toxicity	Dust may irritate the respiratory tract, skin and eyes.
Chemical stability	Material is stable under normal conditions.	Components	Test results
Possibility of hazardous reactions	Hazardous polymerisation does not occur.	Methanol (Impurity) (67-56-1)	Acute Dermal LD50 Rabbit: 17100 mg/kg
Condition to a 11			Acute Inhalation LC50 Rat: 128200 mg/m <sup>3</sup> 4 Hours
Conditions to avoid	Contact with incompatible materials. Avoid dust close to ignition sources.		Acute Oral LD50 Rat: 1187 - 2769 mg/kg
Incompatible materials.		Skin corrosion/irritation	Dust may irritate skin.
Incompatible materials	Strong oxidising agents. Strong acids.	Serious eye damage/eye irritation	Dust may irritate the eyes. Exposed may experience eye tearing, redness, and discomfort.
Hazardous decomposition products	Carbon monoxide.	Respiratory sensitisation	Not classified.
		Skin sensitisation	Not a skin sensitiser.
		Germ cell mutagenicity	Not expected to be mutagenic.
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Carcinogenicity	Not classified.
Reproductive toxicity	Not classified.
Specific target organ toxicity - single exposure	No data available.
Specific target organ toxicity - repeated exposure	No data available.
Aspiration hazard	Due to the physical form of the product it is not an aspiration hazard.
Mixture versus substance information	Not applicable.

Not appli

## Other information

Pre-existing skin and respiratory conditions including dermatitis, asthma and chronic lung disease might be aggravated by exposure.

**SECTION 11: Ecological information** 

## Toxicity

Components	Test results
Methanol (Impurity) (67-56-1)	EC50 Algae: 22000 mg/l 96 hours
	EC50 Daphnia magna: > 10000 mg/l 48 hours
	LC50 Fish: 15400 mg/l 96 hours
Persistence and degradability	
No data available.	
Bioaccumulative potential	
No data available.	
Mobility	
Not available.	
Environmental fate - Partition coefficien	t
No data available.	

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Mobility in soil Not available.

**Results of PBT and vPvB assessment** Not available.

Other adverse effects

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

## SECTION 12: Disposal considerations

Waste treatment methods

Residual waste Dispose of in accordance with local regulations.

Contaminated packaging Dispose of in accordance with local regulations.

EU waste code 08 02 01

Disposal methods/information Dispose of in accordance with local regulations.

SECTION 13: Transport information

## ADR

The product is not covered by international regulation on the transport of dangerous goods.

## RID

The product is not covered by international regulation on the transport of dangerous goods.

## ADN

The product is not covered by international regulation on the transport of dangerous goods.

## IATA

The product is not covered by international regulation on the transport of dangerous goods.

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## IATA

The product is not covered by international regulation on the transport of dangerous goods.

IMDG

The product is not covered by international regulation on the transport of dangerous goods.

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code No information available.

## **SECTION 14: Regulatory information**

Safety, health and environmental regulations/legislation specific for the substance or mixture EU Regulations

Regulation (EC) No. 2037/2000 on substances that deplete the ozone layer, Annex I Not listed.

Regulation (EC) No. 2037/2000 on substances that deplete the ozone layer, Annex II Not listed.

Regulation (EC) No. 850/2004 on persistent organic pollutants, Annex I Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 1 Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 2 Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 3 Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex V Not listed.

Directive 96/61/EC concerning integrated pollution prevention and control (IPPC): Article 15, Europe-

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Directive 96/61/EC concerning integrated pollution prevention and control (IPPC): Article 15, European Pollution Emission Registery (EPER) Not listed.

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Regulation (EC) No. 1907/2006, REACH Article 59(1). Candidate List Not listed.

Other regulations
This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006.

National regulations Not available.

Chemical safety assessment No Chemical Safety Assessment has been carried out.

## SECTION 15: Other information

List of abbreviations DSD: Directive 67/548/EEC. CLP: Regulation No. 1272/2008. DNEL: Derived No-Effect Level. PNEC: Predicted No-Effect Concentration.

details, refer to Sections 9, 11 and 12.

References Not available.

Information on evaluation method leading to the classification of mixture The mixture is classified based on test data for physical hazards. The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available. For



## Full text of any statements or R-phrases and H-phrases under Sections 2 to 15 R11 Highly flammable.

R23/24/25 Toxic by inhalation, in contact with skin and if swallowed.

R39/23/24/25 Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.

H225 - Highly flammable liquid and vapour. H301 - Toxic if swallowed.

H311 - Toxic in contact with skin. H331 - Toxic if inhaled. H370 - Causes damage to organs.

## **Training information**

Follow training instructions when handling this material.

## Disclaimer

This information is provided without warranty. The information is believed to be correct. This information should be used to make an independent determination of the methods to safeguard workers and the environment. Issue date

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## Print date

23-September-2011

SECTION 16: Emergency contact		
Contact:		
Contact person:	Michael Elstner	
Phone:	+49 89 2488986 - 0	
Mail:	emergency@germanreprap.com	

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