

Material Safety Data Sheet

PVA

SECTION 1: Hazards Identification

Classification of the substance or mixture

The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

Classification according to Directive 67/548/EEC or 1999/45/EC as amended

This preparation is not classified as dangerous according to Directive 1999/45/EC and its amendments.

Classification according to Regulation (EC) No 1272/2008 as amended

This mixture does not meet the criteria for classification according to Regulation (EC) 1272/2008 as amended.

Hazard summary

Physical hazards

Not classified for physical hazards.

Health hazards

Not classified for health hazards. However, occupational exposure to the mixture or substance(s) may cause adverse health effects.

Environmental hazards

Not classified for hazards to the environment.

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.

Main symptoms: Coughing.

Label elements

Label according to Regulation (EC) No. 1272/2008 as amended

Contains: Polyvinyl alcohol compound

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

SECTION 2: Composition/information on ingredients

Mixture

General information

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	INDEX No.	Notes
Polyvinyl alcohol compund	>96	-	-	-	-

Classification: DSD: -
CLP: -

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	#

#: This substance has workplace exposure limit(s).

Classification: DSD: F;R11, T;R23/24/25-39/23/24/25
CLP: Flam. Liq. 2;H225, Acute Tox. 3;H301, Acute Tox. 3;H311, Acute Tox. 3;H331, STOT SE 1;H370

Composition comments

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.
The full text for all R- and H-phrases is displayed in section 16.

SECTION 3: First aid measures

Description of first aid measures

Inhalation

If dust from the material is inhaled, remove the affected person immediately to fresh air. Call a physician if symptoms develop or persist.

Skin contact

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

Eye contact

Do not rub eye. Rinse with water. Get medical attention if irritation develops and persists.

Ingestion

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

Most important symptoms and effects, both acute and delayed

Contact with dust: Irritation of eyes and mucous membranes. Coughing.

Indication of any immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically.

SECTION 4: Firefighting measures

General fire hazards

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

Extinguishing media

Suitable extinguishing media

Use fire-extinguishing media appropriate for surrounding materials.

Unsuitable extinguishing media

Do not use a solid water stream as it may scatter and spread fire.

Special hazards arising from the substance or mixture

During fire, gases hazardous to health may be formed.

Advice for firefighters

Special protective equipment for firefighters

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

Special firefighting procedures

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

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.

SECTION 7: Exposure controls/personal protection

Control parameters

Occupational exposure limits

UK. EH40 Workplace Exposure Limits (WELs)

Components	Type	Value	Form
Dust (-)	TWA	4 mg/m ³	Respirable dust.
		10 mg/m ³	Inhalable dust.
Methanol (Impurity) (67-56-1)	STEL	333 mg/m ³	
		250ppm	
	TWA	266 mg/m ³	
		200 ppm	

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

Components	Type	Value	Form
Methanol (Impurity) (67-56-1)	TWA	260 mg/m ³	
		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 prolonged or repeated skin contact use suitable protective gloves.
- **Other:** 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.

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 point, and boiling range	Not applicable
Flash point	Not applicable.
Auto-ignition temperature	Not applicable.
Flammability (solid, gas)	Not available.
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Oxidising properties	Not applicable.
Explosive properties	Not applicable.
Explosive limit	Not applicable.
Vapour pressure	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 9: Stability and reactivity

Reactivity	Stable at normal conditions.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	Hazardous polymerisation does not occur.
Conditions to avoid	Contact with incompatible materials. Avoid dust close to ignition sources.
Incompatible materials	Strong oxidising agents. Strong acids.
Hazardous decomposition products	Carbon monoxide.

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

Acute toxicity Dust may irritate the respiratory tract, skin and eyes.

Components	Test results
Methanol (Impurity) (67-56-1)	Acute Dermal LD50 Rabbit: 17100 mg/kg
	Acute Inhalation LC50 Rat: 128200 mg/m ³ 4 Hours
	Acute Oral LD50 Rat: 1187 - 2769 mg/kg

Skin corrosion/irritation	Dust may irritate skin.
Serious eye damage/eye irritation	Dust may irritate the eyes. Exposed may experience eye tearing, redness, and discomfort.
Respiratory sensitisation	Not classified.
Skin sensitisation	Not a skin sensitiser.
Germ cell mutagenicity	Not expected to be mutagenic.

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.

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 coefficient

No data available.

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.

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-

Directive 96/61/EC concerning integrated pollution prevention and control (IPPC): Article 15, European Pollution Emission Registry (EPER)

Not listed.

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.

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 details, refer to Sections 9, 11 and 12.

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

23-September-2011

Revision date

23-September-2011

Print date

23-September-2011

SECTION 16: Emergency contact**Contact:**

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