

PVA advanced

Section 1 .Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

PVA / PVA advanced

1.2 Company Identification

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Section 2. Hazards Identification

2.1 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.

2.2 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.

2.3 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.

2.4 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.

2.5 Label elements

2.5.1 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.

2.5.2 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 3. Composition / information on ingredients

3.1 Mixtures

Chemical characterization: Polyvinyl alcohol compound > 96% no CAS no. available
Methanol (Impurity) < 0,5% CAS.No. 67-56-1 200-659-6
Classification: DSD: F;R11, T;R23/24/25-39/23/24/25
Flam. Liq. 2;H225, Acute Tox. 3;H301, Acute Tox. 3;H311, Acute Tox. 3;H331, STOT SE1;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 4. First aid measures

4.1 Description of first aid measures

After inhalation: If dust from the material is inhaled, remove the affected person immediately to fresh air. Call a physician if symptoms develop or persist.
In case of skin contact: Rinse skin with water. Get medical attention if irritation develops and persists.
After 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.

4.2 Most important symptoms and effects, both acute and delayed

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

4.3 Indication of any immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically.

Section 5. 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.

5.1 Extinguishing media

Suitable extinguishing media: Use fire-extinguishing media appropriate for surrounding materials.

Extinguishing media which must not be used for safety reasons:

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

5.2 Special hazards arising from the substance or mixture

During fire, gases hazardous to health may be formed.

5.3 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 6. Accidental release measures

6.1 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.

6.2 Environmental precautions

Environmental manager must be informed of all major spillages.

6.3 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.

Handling and storage

7.1 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.

7.2 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.

Section 8 Exposure controls/personal protection

8.1 Exposure controls

Provide good ventilation and/or an exhaust system in the work area.

8.2 Occupational exposure controls

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	
		250 ppm	
	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
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 9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	Pellets.	Oxidising properties	Not applicable.
Physical state	Solid.	Explosive properties	Not applicable.
Form	Pellets.	Explosive limit	Not applicable.
Colour	Not available.	Vapour pressure	Not applicable.
Odour	Not available.	Vapour density	Not applicable.
Odour threshold	Not available.	Evaporation rate	Not applicable.
pH	Not applicable.	Relative density	Not available.
Melting point/freezing point	Not available.	Solubility (water)	Not available.
Boiling point, initial boiling point, and boiling range	Not applicable	Partition coefficient (n-octanol/water)	No data available.
Flash point	Not applicable.	Decomposition temperature	Not available.
Auto-ignition temperature	Not applicable.	Viscosity	Not available.
Flammability (solid, gas)	Not available.	Percent volatile < 4 % w/w	
Flammability limit – lower (%)	Not available.		
Flammability limit – upper (%)	Not available.		

9.2 Other information

No relevant additional information available.

Section 10. Stability and reactivity

10.1 Reactivity

Stable at normal conditions.

10.2 Chemical stability

Material is stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous polymerisation does not occur.

10.4 Conditions to avoid

Contact with incompatible materials. Avoid dust close to ignition sources.

10.5 Incompatible materials

Strong oxidising agents. Strong acids.

10.6 Hazardous decomposition products

Carbon monoxide.

Section 11. Information on toxicological effects

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

Inhalation LC50 Rat: 128200 mg/m³ 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 12. Ecological information

12.1 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

12.2 Persistence and degradability

No data available.

12.3 Bioaccumulative potential

No data available.

12.4 Mobility in soil

No data available

12.5 Other adverse effects

General information: 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 13. Disposal considerations

13.1 Waste treatment methods

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 14, 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.

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

Section 15. 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, 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 16. Other Information

Orbi-Tech GmbH urges each customer or recipient of this (M)SDS to study it carefully and consult appropriate expertise, as necessary or appropriate, to become aware of and understand the data contained in this (M)SDS and any hazards associated with the product. The information herein is provided in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied, is given.

Regulatory requirements are subject to change and may differ between various locations. It is the buyer's/user's responsibility to ensure that his activities comply with all federal, state, provincial or local laws. The information presented here pertains only to the product as shipped. Since conditions for use of the product are not under the control of the manufacturer, it is the buyer's/user's duty to determine the conditions necessary for the safe use of this product. Due to the proliferation of sources for information such as manufacturer-specific (M)SDSs, we are not and cannot be responsible for (M)SDSs obtained from any source other than ourselves. If you have obtained an (M)SDS from another source or if you are not sure that the (M)SDS you have is current, please contact us for the most current version.