SAFETY DATA SHEET

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

Product identifier

Trade name or designation

of the mixture

PVA

Registration number

Synonyms None.

SDS number -

Date of first issue 23-September-2011

Version number 01

Revision date
Supersedes date -

Relevant identified uses of the substance or mixture and uses advised against

Identified uses Thermoplastic processing.

Uses advised against None known.

Details of the supplier of the safety data sheet

Supplier: Kuraray Europe GmbH

Brüningstraße 50

D-65926 Frankfurt am Main

+49-69-305-85300

Technical Contact: +49-69-305-6201 **Emergency telephone:** +49-69-305-6418

E-mail address: product-safety@kuraray.eu

Section 2: 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.

PVA SDS UK

Section 3: Composition/information on ingredients

Mixture

General information

CAS-No. / EC No. REACH Registration No. **Chemical name** % **Notes**

Polyvinyl alcohol compound >96

CLP: -

Classification: DSD: -

Methanol (Impurity) < 0.5 67-56-1 01-2119433307-44-XXXX 603-001-00-X

200-659-6

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 4: 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

Indication of any immediate medical attention and special

treatment needed

Provide general supportive measures and treat symptomatically.

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

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.

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 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency Avoid inhalation of dust and contact with skin and eyes. Wear appropriate personal protective

personnel 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.

PVA

#

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

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

Section 7: 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 8: Exposure controls/personal protection

Control parameters

Occupational exposure limits

UK. EH40 Workplace Exposure Limits (WELs)

Components	Type	Value	Form
Dust (-)	TWA	4 mg/m3 10 mg/m3	Respirable dust. Inhalable dust.
Methanol (Impurity) (67-56-1)	STEL	333 mg/m3	
		250 ppm	
	TWA	266 mg/m3	
		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	
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 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 measuresHandle 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

Information on basic physical and chemical properties

Appearance Pellets.

Physical state Solid.

Form Pellets.

Colour Not available.

PVA SDS UK

Not available. Odour **Odour threshold** Not available. Not applicable. Melting point/freezing Not available.

point

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. Not applicable. Vapour density Not applicable. **Evaporation rate** Not available. Relative density Not available. Solubility (water) **Partition coefficient** No data available.

(n-octanol/water)

Decomposition

Not available. temperature

Not available. **Viscosity** Percent volatile

Other information No relevant additional information available.

Section 10: Stability and reactivity

Reactivity Stable at normal conditions.

Chemical stability Material is stable under normal conditions. Possibility of hazardous Hazardous polymerisation does not occur.

reactions

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

Incompatible materials Strong oxidising agents. Strong acids.

Hazardous decomposition

Conditions to avoid

products

Carbon monoxide.

Section 11: 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/m³ 4 Hours

Acute Oral LD50 Rat: 1187 - 2769 mg/kg

Skin corrosion/irritation Dust may irritate skin.

PVA SDS UK 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. Not classified. Reproductive toxicity Specific target organ No data available.

toxicity - single exposure Specific target organ

toxicity - repeated

Aspiration hazard

exposure

No data available.

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

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.	

Due to the physical form of the product it is not an aspiration hazard.

Mol **Environmental fate -**Partition coefficient

No data available.

Mobility in soil Not available. Not available. Results of PBT and

vPvB assessment 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 13: 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 14: Transport information

ADR

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

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

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

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

No information available.

the IBC Code

PVA

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 Registery (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

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

R11 Highly flammable.

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

under Sections 2 to 15

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 date23-September-2011Revision date23-September-2011Print date23-September-2011

PVA SDS UK