

KIMA CHEMICAL CO.,LTD

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1. Identification

1.1 GHS Product identifier

Product name Polyvinyl Alcohol or Poly(Vinyl Alcohol)

1.2 Other means of identification

Product number -PVA, PVOH

1.3 Recommended use of the chemical and restrictions on use

Identified uses For industry use only.

Uses advised against no data available

1.4 Supplier's details

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1.5 Emergency phone number None

2. Hazard identification

2.1 Classification of the substance or mixture

Not a hazardous substance or mixture according to Regulation(EC) No 1272/2008

This substance is not classified as dangerous according to Directive 67/548/EEC

2.2 GHS label elements, including precautionary statements

The product does not need to be labelled in accordance with EC directives or respective national laws

2.3 Other hazards which do not result in classification

This substance/mixture contains no components considered to be either persistent, Bioaccumulative and toxic(PBC), or very persistent and very bioaccumulative(vPvB) at levels Of 0.1% or higher.

3. Composition/information on ingredients

3.1 Substances

Chemical name Polyvinyl Alcohol

Common names and synonyms PVA, PVOH 100%

Formula: $[-CH_2CHOH-]_n$ or $C_2H_4O)_x$

CAS number 9002-89-5

EC number 209-183-3

4. First-aid measures

4.1 Description of necessary first-aid measures

General advice Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration.

Consult a physician.

In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed

Never give anything by mouth to an unconscious person.

Rinse mouth with water. Consult a physician.

4.2 Most important symptoms/effects, acute and delayed

no data available

4.3 Indication of immediate medical attention and special treatment needed,

if necessary no data available

5. Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Specific hazards arising from the chemical

no data available

5.3 Special protective actions for fire-fighters

Wear self-contained breathing apparatus for firefighting if necessary.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

Avoid breathing dust. For personal protection see section 8.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so.

Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up

Pick up and arrange disposal. Sweep up and shovel.

Keep in suitable, closed containers for disposal.

7. Handling and storage

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols.

Avoid exposure - obtain special instructions before use.

Provide appropriate exhaust ventilation at places where dust is formed.

For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

8. Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure limit values

no data available

Biological limit values

no data available

8.2 Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice.

Wash hands before breaks and at the end of workday.

8.3 Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection

Safety glasses with side-shields conforming to EN166.

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Wear impervious clothing.

The type of protective equipment must be selected according to the concentration

and amount of the dangerous substance at the specific workplace. Handle with gloves. Gloves must be inspected prior to use.

Use proper glove removal technique(without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Respiratory protection

Wear dust mask when handling large quantities.

Thermal hazards

no data available

9. Physical and chemical properties

Physical state Form:solid material granules, crystals or powder, Odor not defined.

Colour no data available

Odour no data available

Melting point/ freezing point: 200°C -lit

Boiling point or initial boiling point and boiling range: NA. Decomposes between 200-250

Flammability no data available

Lower and upper explosion limit / flammability limit no data available

Flash point no data available

Auto-ignition temperature no data available

Decomposition temperature no data available

pH: 5-7 at 4% water solution.

Kinematic viscosity no data available

Solubility no data available

Partition coefficient n-octanol/water (log value) no data available

Vapour pressure no data available

Density and/or relative density: 1.19 to 1.31 g/m³

Relative vapour density no data available

Particle characteristics no data available

10. Stability and reactivity

10.1 Reactivity

no data available

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

no data available

10.4 Conditions to avoid

Heat, humidity, Dust generation.

10.5 Incompatible materials

Strong oxidizing and reducing agents, Strong acids and bases.

10.6 Hazardous decomposition products

Carbon monoxide, carbon dioxide

11. Toxicological information

Acute toxicity

LD50 Oral - Rat- > 20.000mg/kg

LD50 Dermal-rat- > 20.00mg/kg

Inhalation: no data available

Dermal: no data available

Skin corrosion/irritation

no data available

Serious eye damage/irritation

no data available

Respiratory or skin sensitization

no data available

Germ cell mutagenicity

no data available

Carcinogenicity

IARC: No component of this product represent at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity

no data available

STOT-single exposure

no data available

STOT-repeated exposure
no data available

Aspiration hazard
no data available

12. Ecological information

12.1 Toxicity

Toxicity to fish: LC>1000mg/liter over 48hours exposure on killfish.
Toxicity to daphnia and other aquatic invertebrates: no data available
Toxicity to algae: no data available
Toxicity to microorganisms: no data available

12.2 Persistence and degradability

no data available

12.3 Bioaccumulative potential

Does not bioaccumulate

12.4 Mobility in soil

no data available

12.5 Other adverse effects

no data available

13. Disposal considerations

13.1 Disposal methods

Product

The material can be disposed of by removal to a licensed chemical destruction plant or by controlled incineration with flue gas scrubbing. Do not contaminate water, foodstuffs, feed or seed by storage or disposal. Do not discharge to sewer systems.

Contaminated packaging

Containers can be triply rinsed (or equivalent) and offered for recycling or reconditioning. Alternatively, the packaging can be punctured to make it unusable for other purposes and then be disposed of in a sanitary landfill. Controlled incineration with flue gas scrubbing is possible for combustible packaging materials.

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14. Transport information

14.1 UN Number

ADR/RID: no data available IMDG: no data available IATA: no data available

14.2 UN Proper Shipping Name

ADR/RID: no data available

IMDG: no data available

IATA: no data available

14.3 Transport hazard class(es)

ADR/RID: no data available IMDG: no data available IATA: no data available

14.4 Packing group, if applicable

ADR/RID: no data available IMDG: no data available IATA: no data available

14.5 Environmental hazards

ADR/RID: no IMDG: no IATA: no

14.6 Special precautions for user

no data available

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

no data available

15. Regulatory information

15.1 Safety, health and environmental regulations specific for the product in question

Chemical name	Common names and synonyms	CAS number	EC number
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Polyvinyl Alcohol or Poly(Vinyl Alcohol)	PVA, PVOH	9002-89-5	none
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European Inventory of Existing Commercial Chemical Substances (EINECS) Not Listed.

EC Inventory Not Listed.

United States Toxic Substances Control Act (TSCA) Inventory Listed.

China Catalog of Hazardous chemicals 2015 Not Listed.

New Zealand Inventory of Chemicals (NZIoC) Listed.

Philippines Inventory of Chemicals and Chemical Substances (PICCS) Listed.

Vietnam National Chemical Inventory Listed.

Chinese Chemical Inventory of Existing Chemical Substances (China IECSC) Listed.

16. Other information

Abbreviations and acronyms

CAS: Chemical Abstracts Service

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ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

RID: Regulation concerning the International Carriage of Dangerous Goods by Rail

IMDG: International Maritime Dangerous Goods

IATA: International Air Transportation Association

TWA: Time Weighted Average

STEL: Short term exposure limit

LC50: Lethal Concentration 50%

LD50: Lethal Dose 50%

EC50: Effective Concentration 50%

Disclaimer:

Our company provides this MSDS information sheet contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This Polyvinyl Alcohol SDS is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgement in determining its appropriateness for a particular purpose.