

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Issue date: 04/30/2021 Supersedes: 06/29/2000 Version: 1.0

SECTION 1: Identification

1.1. Identification

Product form : Mixture

Trade name : Poly(vinyl alcohol), MW 25000, 88% hydrolyzed

Product code : 02975

Formula : (C4H6O2.C2H4O)x

1.2. Recommended use and restrictions on use

Recommended use : Use as laboratory reagent, Manufacture of substances

1.3. Supplier

Supplier

Polysciences 400 Valley Road Warrington, PA 18976 - United States T +1 215 343 6484 - F +1 215 343 0214 info@polysciences.com - www.polysciences.com

1.4. Emergency telephone number

Emergency number : 24-hour emergency phone number ChemTel 1-800-255-3924

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS US classification

Not classified

2.2. GHS Label elements, including precautionary statements

GHS US labeling

No labeling applicable

2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

| Name | Product identifier | % | GHS US classification |
|--------------------------|---------------------|----------|---|
| Polyvinyl alcohol | (CAS-No.) 9002-89-5 | 91 – 100 | Not classified |
| Water | (CAS-No.) 7732-18-5 | 1 – 10 | Not classified |
| Acetic Acid, sodium salt | (CAS-No.) 127-09-3 | 0 – 5 | Not classified |
| Methyl alcohol | (CAS-No.) 67-56-1 | 0 – 5 | Flam. Liq. 2, H225 Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 Acute Tox. 3 (Inhalation:vapour), H331 STOT SE 1, H370 |

Full text of hazard classes and H-statements : see section 16

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures general : Call a physician immediately.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact : Wash skin with plenty of water.

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First-aid measures after eye contact : Rinse eyes with water as a precaution.

First-aid measures after ingestion : Rinse mouth. Call a physician immediately.

4.2. Most important symptoms and effects (acute and delayed)

No additional information available

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam.

5.2. Specific hazards arising from the chemical

Hazardous decomposition products in case of fire

: Toxic fumes may be released.

5.3. Special protective equipment and precautions for fire-fighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing

apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Only qualified personnel equipped with suitable protective equipment may intervene.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information

refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Mechanically recover the product.

Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling

: Ensure good ventilation of the work station. Wear personal protective equipment.

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store at room temp. Store locked up. Store in a well-ventilated place. Keep cool.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

| Poly(vinyl alcohol), MW 25000, 88% hyd | rolyzed |
|--|--|
| No additional information available | |
| Acetic Acid, sodium salt (127-09-3) | |
| No additional information available | |
| Methyl alcohol (67-56-1) | |
| USA - ACGIH - Occupational Exposure | Limits |
| ACGIH TWA (ppm) | 200 ppm |
| ACGIH STEL (ppm) | 250 ppm |
| ACGIH chemical category | Skin - potential significant contribution to overall exposure by the cutaneous route |

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| USA - ACGIH - Biological Exposure Indices | | | |
|--|---|--|--|
| Biological Exposure Indices (BEI) | 15 mg/l Parameter: Methanol - Medium: urine - Sampling time: end of shift (background, nonspecific) | | |
| USA - OSHA - Occupational Exposure Limits | | | |
| OSHA PEL (TWA) (mg/m³) | 260 mg/m³ | | |
| OSHA PEL (TWA) (ppm) | 200 ppm | | |
| USA - IDLH - Occupational Exposure Limits | | | |
| US IDLH (ppm) | 6000 ppm | | |
| USA - NIOSH - Occupational Exposure Limits | | | |
| NIOSH REL (TWA) (mg/m³) | 260 mg/m³ | | |
| NIOSH REL TWA [ppm] | 200 ppm | | |
| NIOSH REL (STEL) (mg/m³) | 325 mg/m³ | | |
| NIOSH REL STEL [ppm] | 250 ppm | | |
| US-NIOSH chemical category | Potential for dermal absorption | | |
| Polyvinyl alcohol (9002-89-5) | | | |
| No additional information available | | | |
| Water (7732-18-5) | | | |
| No additional information available | | | |

8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.

Environmental exposure controls : Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Hand protection:

Protective gloves

Eye protection:

Safety glasses

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

Personal protective equipment symbol(s):



SECTION 9: Physical and chemical properties

| 9.1. | Information on | hasic physical and | I chemical properties |
|-------|--------------------|----------------------|----------------------------|
| J. I. | IIIIOIIIIauoii oii | Dasic Diivsical allu | i cileillicai bi obel iles |

Physical state : Solid

Appearance : white to off-white powder.

Color : Mixture contains one or more component(s) which have the following colour(s):

clear Colorless

Odor : There may be no odour warning properties, odour is subjective and inadequate to warn of

overexposure.

Mixture contains one or more component(s) which have the following odour:

alcohol-like

Odor threshold : No data available pH : No data available

Melting point : 392

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Freezing point : Not applicable
Boiling point : no data
Flash point : no data

Relative evaporation rate (butyl acetate=1) : No data available Flammability (solid, gas) : Non flammable. Vapor pressure : no data Relative vapor density at 20°C : no data

Relative density No data available : No data available Solubility : No data available Partition coefficient n-octanol/water (Log Pow) Auto-ignition temperature : Not applicable Decomposition temperature : No data available : No data available Viscosity, kinematic : No data available Viscosity, dynamic : Not applicable **Explosion limits** Explosive properties : No data available Oxidizing properties : No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1 Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

| Poly(vinyl alcohol), MW 25000, 88% hydrolyzed | | | |
|---|----------------------|--|--|
| LD50 oral rat 23854 μg/kg mg/Kg | | | |
| LD50 dermal rabbit | > ≥ 7490 ml/kg mg/Kg | | |

| Methyl alcohol (67-56-1) | | |
|-----------------------------|--------------------------------|--|
| LD50 oral rat 6200 mg/kg | | |
| LC50 Inhalation - Rat [ppm] | 22500 ppm (Exposure time: 8 h) | |

| Polyvinyl alcohol (9002-89-5) | | |
|-------------------------------|-----------|--|
| LD50 oral rat > 5000 mg/kg | | |
| LC50 Inhalation - Rat | > 24 mg/l | |

 Skin corrosion/irritation
 : Not classified

 Serious eye damage/irritation
 : Not classified

 Respiratory or skin sensitization
 : Not classified

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Germ cell mutagenicity : Not classified Carcinogenicity : Not classified

Polyvinyl alcohol (9002-89-5)

IARC group 3 - Not classifiable

Reproductive toxicity : Not classified

STOT-single exposure : Not classified

Methyl alcohol (67-56-1)

STOT-single exposure Causes damage to organs.

STOT-repeated exposure : Not classified

Aspiration hazard : Not classified
Viscosity, kinematic : No data available

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms or to cause long-term adverse

effects in the environment.

| Methyl alcohol (67-56-1) | |
|--------------------------|--|
| LC50 fish 1 | 28200 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through]) |
| LC50 fish 2 | > 100 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static]) |

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

| Methyl alcohol (67-56-1) | | |
|---|-------|--|
| BCF fish 1 | < 10 | |
| Partition coefficient n-octanol/water (Log Pow) | -0.77 | |

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Disposal methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

Not applicable

Transportation of Dangerous Goods

Not applicable

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Transport by sea

Not applicable

Air transport

Not applicable

SECTION 15: Regulatory information

15.1. US Federal regulations

| Methyl alcohol (67-56-1) | | | |
|--|---------|--|--|
| Listed on the United States TSCA (Toxic Substances Control Act) inventory Subject to reporting requirements of United States SARA Section 313 Listed on EPA Hazardous Air Pollutant (HAPS) | | | |
| CERCLA RQ | 5000 lb | | |
| Polyvinyl alcohol (9002-89-5) | | | |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory | | | |
| EPA TSCA Regulatory Flag XU - XU - indicates a substance exempt from reporting under the Chemical Data Reporting Rule, (40 CFR 711). | | | |
| Water (7732-18-5) | | | |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory | | | |

15.2. International regulations

CANADA

| Poly(vinyl alcohol), MW 25000, 88% hydrolyzed | | | |
|---|--|--|--|
| Not listed on the Canadian DSL (Domestic Substances List)/NDSL (Non-Domestic Substances List) | | | |
| Methyl alcohol (67-56-1) | | | |
| Listed on the Canadian DSL (Domestic Substances List) | | | |
| Polyvinyl alcohol (9002-89-5) | | | |
| Listed on the Canadian DSL (Domestic Substances List) | | | |
| Water (7732-18-5) | | | |

EU-Regulations

Methyl alcohol (67-56-1)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

National regulations

Methyl alcohol (67-56-1)

Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory

Listed on the Japanese ISHL (Industrial Safety and Health Law)

Listed on KECL/KECI (Korean Existing Chemicals Inventory)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on the Canadian DSL (Domestic Substances List)

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

Japanese Poisonous and Deleterious Substances Control Law

Listed on INSQ (Mexican National Inventory of Chemical Substances)

Listed on CICR (Turkish Inventory and Control of Chemicals)

Listed on the TCSI (Taiwan Chemical Substance Inventory)

15.3. US State regulations

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| Methyl alcohol (67-56-1) | | | | | |
|--|---|---|---|----------------------------------|--|
| U.S California - Proposition 65 - Carcinogens List | U.S California - Proposition 65 - Developmental Toxicity | U.S California - Proposition 65 - Reproductive Toxicity - Female | U.S California - Proposition 65 - Reproductive Toxicity - Male | No significant risk level (NSRL) | Maximum allowable dose level (MADL) |
| No | Yes | No | No | | 47000 μg/day inhalation |

| Component | State or local regulations |
|-------------------------|--|
| Methyl alcohol(67-56-1) | U.S Massachusetts - Right To Know List; U.S New Jersey - Right to Know Hazardous Substance List; U.S Pennsylvania - RTK (Right to Know) - Environmental Hazard List; U.S Pennsylvania - RTK (Right to Know) List |

SECTION 16: Other information

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Hazard Rating

Health : 1 Slight Hazard - Irritation or minor reversible injury possible

Flammability : 1 Slight Hazard - Materials that must be preheated before ignition will occur. Includes liquids,

solids and semi solids having a flash point above 200 F. (Class IIIB)

Physical : 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT

react with water, polymerize, decompose, condense, or self-react. Non-Explosives.

SDS US (GHS HazCom 2012)

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