

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Issue date: 04/15/2021 Supersedes: 02/10/2000 Version: 1.0

SECT	ION 1: Identification	
1.1.	Identification	
Produ	ct form	: Mixture
Trade	name	: Poly(vinyl alcohol), MW 25000, 98% hydrolyzed
Produ	ct code	: 04397
Formu	la	: (C4H6O2.C2H4O)x
1.2.	Recommended use and restrictions of	
	nmended use	: Use as laboratory reagent, Manufacture of substances
1.3.	Supplier	
400 V Warrir T +1 2		1
1.4.	Emergency telephone number	
Emerg	lency number	: 24-hour emergency phone number ChemTel 1-800-255-3924
SECT	ION 2: Hazard(s) identification	
2.1.	Classification of the substance or mix	kture
GHS U	S classification	
Skin c Seriou Seriou	toxicity (inhalation) Category 4 orrosion/irritation Category 2 is eye damage/eye irritation Category 2A is eye damage/eye irritation Category 2B	Harmful if inhaled Causes skin irritation Causes serious eye irritation Causes eye irritation
2.2.	GHS Label elements, including preca	utionary statements
	S labeling d pictograms (GHS US)	
Signal	word (GHS US)	: Warning
•	d statements (GHS US)	: Causes skin irritation Causes serious eye irritation Causes eye irritation Harmful if inhaled
Preca	utionary statements (GHS US)	 Avoid breathing dust/fume/gas/mist/vapors/spray. Wash hands, forearms and face thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection. If on skin: Wash with plenty of water. If inhaled: Remove person to fresh air and keep comfortable for breathing.
2.3.	Other hazards which do not result in	classification
No add	tional information available	
2.4.	Unknown acute toxicity (GHS US)	
Not app	licable	
SECT	ION 3: Composition/Information	on ingredients
	Substances	
3.1.	ousstanoos	
3.1. Not app		

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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. EN	rst-aid measures	
	on of first aid measures	
First-aid measures	•	: Call a poison center/doctor/physician if you feel unwell.
First-aid measures	after inhalation	: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor/physician if you feel unwell.
First-aid measures	s after skin contact	: Wash skin with plenty of water. Take off contaminated clothing. If skin irritation occurs: Get medical advice/attention.
First-aid measures	after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
First-aid measures	after ingestion	: Call a poison center/doctor/physician if you feel unwell.
4.2. Most imp	ortant symptoms and effects	(acute and delayed)
Symptoms/effects	after skin contact	: Irritation.
Symptoms/effects	after eye contact	: Eye irritation. Mild eye irritation.
4.3. Immediat	e medical attention and spec	ial treatment, if necessary
Treat symptomatica	lly.	
SECTION 5: Fin	re-fighting measures	
5.1. Suitable	(and unsuitable) extinguishin	g media
Suitable extinguish	ning media	: Water spray. Dry powder. Foam.
5.2. Specific I	hazards arising from the cher	nical
Hazardous decom fire	position products in case of	: Toxic fumes may be released.
5.3. Special p	rotective equipment and pred	cautions for fire-fighters
Protection during f	irefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
SECTION 6: Ac	cidental release measu	ires
6.1. Personal	precautions, protective equi	oment and emergency procedures
6.1.1. For non-e	emergency personnel	
Emergency proced	• • • •	: Ventilate spillage area. Avoid breathing dust/fume/gas/mist/vapors/spray. Avoid contact with skin and eyes.
6.1.2. For emer	gency responders	
Protective equipme	• • •	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
6.2. Environm	nental precautions	
Avoid release to the	environment.	
6.3. Methods	and material for containment	and cleaning up
Methods for cleani	ing up	: Mechanically recover the product.
Other information		: Dispose of materials or solid residues at an authorized site.
6.4. Reference	e to other sections	
	on refer to section 13.	

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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. Use only outdoors or in a well-ventilated area. Avoid breathing dust/fume/gas/mist/vapors/spray. Avoid contact with skin and eyes.
Hygiene measures	: Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Wash contaminated clothing before reuse.
7.2. Conditions for safe storage, includin	g any incompatibilities
Storage conditions	: Store at room temp. Store in a well-ventilated place. Keep cool.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Poly(vinyl alcohol), MW 25000, 98% hydro	lyzed
No additional information available	
Acetic Acid, sodium salt (127-09-3)	
No additional information available	
Methyl alcohol (67-56-1)	
USA - ACGIH - Occupational Exposure Lir	nits
ACGIH TWA (ppm)	200 ppm
ACGIH STEL (ppm)	250 ppm
ACGIH chemical category	Skin - potential significant contribution to overall exposure by the cutaneous route
USA - ACGIH - Biological Exposure Indice	IS
Biological Exposure Indices (BEI)	15 mg/l Parameter: Methanol - Medium: urine - Sampling time: end of shift (background, nonspecific)
USA - OSHA - Occupational Exposure Lim	lits
OSHA PEL (TWA) (mg/m ³)	260 mg/m ³
OSHA PEL (TWA) (ppm)	200 ppm
USA - IDLH - Occupational Exposure Limi	ts
US IDLH (ppm)	6000 ppm
USA - NIOSH - Occupational Exposure Lin	nits
NIOSH REL (TWA) (mg/m ³)	260 mg/m ³
NIOSH REL TWA [ppm]	200 ppm
NIOSH REL (STEL) (mg/m ³)	325 mg/m ³
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	
	riate engineering controls	Ensure good ventilation of the work station. 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

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Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment. [In case of inadequate ventilation] wear respiratory protection.

Personal protective equipment symbol(s):



1. Information on basic physical and ch	emical properties
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
DH	: No data available
Melting point	: 235 °C C
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.
√apor pressure	: no data
Relative vapor density at 20°C	: no data
Relative density	: No data available
Solubility	: No data available
Partition coefficient n-octanol/water (Log Pow)	: No data available
Auto-ignition temperature	: Not applicable
Decomposition temperature	: No data available
∕iscosity, kinematic	: No data available
∕iscosity, dynamic	: No data available
Explosion limits	: Not applicable
Explosive properties	: No data available
Oxidizing properties	: No data available

9.2. Other information

No additional information available

SECT	ION 10: Stability and reactivity
10.1.	Reactivity
The pro	duct is non-reactive under normal conditions of use, storage and transport.
10.0	
10.2.	Chemical stability

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).

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Incompatible materials No additional information available	
0.6. Hazardous decomposition product	
-	zardous decomposition products should not be produced.
ECTION 11: Toxicological informa	tion
1.1. Information on toxicological effects	\$
Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Harmful if inhaled.
Poly(vinyl alcohol), MW 25000, 98% hydro	blyzed
LD50 oral rat	> ≥ 5000 μg/kg mg/kg
ATE US (oral)	5 mg/kg body weight
ATE US (gases)	4500 ppmV/4h
ATE US (vapors)	11 mg/l/4h
ATE US (dust, mist)	1.5 mg/l/4h
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	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye irritation. Causes eye irritation.
Respiratory or skin sensitization	: Not classified
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
Assistion beyond	
Aspiration hazard	: Not classified
Viscosity, kinematic	: No data available
Symptoms/effects after skin contact	: Irritation.
Symptoms/effects after eye contact	: Eye irritation. Mild eye irritation.
ECTION 12: Ecological information	

ECTION 12: Ecological information	
2.1. 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])

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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

	ations
.1. Disposal methods	
Vaste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
ECTION 14: Transport informat	tion
Department of Transportation (DOT) n accordance with DOT	
Not applicable	
Fransportation of Dangerous Goods	
Not applicable	
Fransport by sea	
Not applicable	
Air transport	
lot applicable	
-CHON 15, Degulatory informed	htion
ECTION 15: Regulatory informa	ation
ECTION 15: Regulatory informa	ation
	ation
.1. US Federal regulations Methyl alcohol (67-56-1) Listed on the United States TSCA (Toxic	c Substances Control Act) inventory
.1. US Federal regulations Methyl alcohol (67-56-1) Listed on the United States TSCA (Toxic Subject to reporting requirements of Unit	c Substances Control Act) inventory ted States SARA Section 313
.1. US Federal regulations Methyl alcohol (67-56-1) Listed on the United States TSCA (Toxic Subject to reporting requirements of Unit Listed on EPA Hazardous Air Pollutant (I	c Substances Control Act) inventory ted States SARA Section 313 (HAPS)
.1. US Federal regulations Methyl alcohol (67-56-1) Listed on the United States TSCA (Toxic Subject to reporting requirements of Unit	c Substances Control Act) inventory ted States SARA Section 313
.1. US Federal regulations Methyl alcohol (67-56-1) Listed on the United States TSCA (Toxic Subject to reporting requirements of Unit Listed on EPA Hazardous Air Pollutant (I	c Substances Control Act) inventory ted States SARA Section 313 (HAPS)
.1. US Federal regulations Methyl alcohol (67-56-1) Listed on the United States TSCA (Toxic Subject to reporting requirements of Unit Listed on EPA Hazardous Air Pollutant (I CERCLA RQ	c Substances Control Act) inventory ted States SARA Section 313 (HAPS) 5000 lb
.1. US Federal regulations Methyl alcohol (67-56-1) Listed on the United States TSCA (Toxic Subject to reporting requirements of Unit Listed on EPA Hazardous Air Pollutant (I CERCLA RQ Polyvinyl alcohol (9002-89-5)	c Substances Control Act) inventory ted States SARA Section 313 (HAPS) 5000 lb
.1. US Federal regulations Methyl alcohol (67-56-1) Listed on the United States TSCA (Toxic Subject to reporting requirements of Unit Listed on EPA Hazardous Air Pollutant (I CERCLA RQ Polyvinyl alcohol (9002-89-5) Listed on the United States TSCA (Toxic	c Substances Control Act) inventory ted States SARA Section 313 (HAPS) 5000 lb c Substances Control Act) inventory XU - XU - indicates a substance exempt from reporting under the Chemical Data Reporting

15.2. International regulations

CANADA

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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)		
Listed on the Canadian DSL (Domestic Substances List)		

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)

Metnyi alconol (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 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

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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