

# Safety Data Sheet

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

Issue date: 04/09/2021 Supersedes: 01/27/2000 Version: 1.0

## **SECTION 1: Identification**

### 1.1. Identification

Product form : Mixture

Trade name : Mowiol® 4-88

Product code : 17951

Formula : no data

Synonyms : Vinyl acetate-vinyl alcohol polymer / Poly(vinyl alcohol-vinyl acetate)

### 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**

Acute toxicity (oral) Category 3 Toxic if swallowed

### 2.2. GHS Label elements, including precautionary statements

### **GHS US labeling**

Hazard pictograms (GHS US)



Signal word (GHS US) : Danger

Hazard statements (GHS US) : Toxic if swallowed

Precautionary statements (GHS US) : Wash hands, forearms and face thoroughly after handling.

Do not eat, drink or smoke when using this product. If swallowed: Immediately call a poison center or doctor.

Specific treatment (see supplemental first aid instruction on this label)

Rinse mouth. Store locked up.

# 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, partially hydrolyzed	(CAS-No.) 25213-24-5	90-100	Not classified

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Name	Product identifier	%	GHS US classification
Methanol, ≥ 99.85%, EM Grade	(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 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.

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 : Toxic fumes may be released.

fire

### 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 : Ventilate spillage area.

# 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 in a well-ventilated place. Keep cool. Store locked up.

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# SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

Mowiol® 4-88			
No additional information available			
Polyvinyl alcohol, partially hydrolyzed (25213-24-	Polyvinyl alcohol, partially hydrolyzed (25213-24-5)		
No additional information available			
Methanol, ≥ 99.85%, EM Grade (67-56-1)			
USA - ACGIH - Occupational Exposure Limits			
Local name	Methanol		
ACGIH TWA (ppm)	200 ppm		
ACGIH STEL (ppm)	250 ppm		
Remark (ACGIH)	TLV® Basis: Headache; eye dam; dizziness; nausea. Notations: Skin; BEI		
Regulatory reference	ACGIH 2020		
USA - OSHA - Occupational Exposure Limits			
Local name	Methyl alcohol		
OSHA PEL (TWA) (mg/m³)	260 mg/m³		
OSHA PEL (TWA) (ppm)	200 ppm		
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1		

# 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 basic physical and chemical properties

Physical state : Solid

Appearance : white to pale yellow fine granules.

Color : Colorless

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

Odor threshold : No data available

pH : 4.5 - 6.5 Melting point :  $\geq 320$ 

Freezing point : Not applicable
Boiling point : no data

Solling point . He data

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Flash point : Not applicable
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 Solubility : No data available Partition coefficient n-octanol/water (Log Pow) No data available Auto-ignition temperature : Not applicable Decomposition temperature : No data available Viscosity, kinematic : No data available Viscosity, 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

# **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) : Toxic if swallowed.

Acute toxicity (dermal) : Not classified

Acute toxicity (inhalation) : Not classified

Mowiol® 4-88		
LD50 oral rat	>	
ATE US (oral)	100 mg/kg body weight	
Skin corrosion/irritation	: Not classified	

pH: 4.5-6.5 Serious eye damage/irritation : Not classified pH: 4.5-6.5 Respiratory or skin sensitization : Not classified Germ cell mutagenicity : Not classified Carcinogenicity : Not classified

Reproductive toxicity : Not classified

STOT-single exposure : Not classified

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Methanol, ≥ 99.85%, EM Grade (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.

### 12.2. Persistence and degradability

No additional information available

### 12.3. Bioaccumulative potential

No additional information available

### 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

# Transport by sea

Not applicable

Air transport

Not applicable

# **SECTION 15: Regulatory information**

## 15.1. US Federal regulations

Mowiol® 4-88		
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	

# Polyvinyl alcohol, partially hydrolyzed (25213-24-5)

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).

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### Methanol, ≥ 99.85%, EM Grade (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

#### 15.2. International regulations

### **CANADA**

### Mowiol® 4-88

Listed on the Canadian DSL (Domestic Substances List)

### Polyvinyl alcohol, partially hydrolyzed (25213-24-5)

Listed on the Canadian DSL (Domestic Substances List)

### Methanol, ≥ 99.85%, EM Grade (67-56-1)

Listed on the Canadian DSL (Domestic Substances List)

#### **EU-Regulations**

### **National regulations**

### Mowiol® 4-88

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)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

Listed on the TCSI (Taiwan Chemical Substance Inventory)

### 15.3. US State regulations

Methanol, ≥ 99.85%, EM Grade (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); 23,000 μg/day (oral)

Component	State or local regulations
Methanol, ≥ 99.85%, EM Grade(67-56-1)	U.S Massachusetts - Right To Know List; U.S New Jersey - Right to Know Hazardous Substance List

### **SECTION 16: Other information**

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SDS US (GHS HazCom 2012)

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