

# SAFETY DATA SHEET

Creation Date 22-Sep-2009 Revision Date 28-Dec-2021 **Revision Number 4** 

## 1. Identification

**Product Name** Methyl Red, 0.02% W/V Solution in Methanol

AC612640000; AC612645000 Cat No.:

**Synonyms** Carbinol; Methanol; Methyl hydroxide

**Recommended Use** Laboratory chemicals.

Uses advised against Food, drug, pesticide or biocidal product use.

### Details of the supplier of the safety data sheet

Company

**Acros Organics** Fisher Scientific Company One Reagent Lane One Reagent Lane Fair Lawn, NJ 07410 Fair Lawn, NJ 07410 Tel: (201) 796-7100

**Emergency Telephone Number** 

For information **US** call: 001-800-ACROS-01 / Europe call: +32 14 57 52 11 Emergency Number **US**:001-201-796-7100 / **Europe**: +32 14 57 52 99 CHEMTREC Tel. No.US:001-800-424-9300 / Europe:001-703-527-3887

# 2. Hazard(s) identification

# Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Flammable liquids Category 2 Acute oral toxicity Category 3 Category 3 Acute dermal toxicity Acute Inhalation Toxicity - Vapors Category 3 Specific target organ toxicity (single exposure) Category 1 Target Organs - Optic nerve, Respiratory system, Central nervous system (CNS).

Specific target organ toxicity - (repeated exposure) Category 1

Target Organs - Kidney, Liver, Blood, Gastrointestinal tract (GI).

#### Label Elements

#### Signal Word

Danger

#### **Hazard Statements**

Highly flammable liquid and vapor

Toxic if swallowed

Toxic in contact with skin

Toxic if inhaled

May cause drowsiness or dizziness

Causes damage to organs

Causes damage to organs through prolonged or repeated exposure



#### **Precautionary Statements**

#### Prevention

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Wear protective gloves/protective clothing/eye protection/face protection

Use only outdoors or in a well-ventilated area

Do not breathe dust/fume/gas/mist/vapors/spray

Keep away from heat/sparks/open flames/hot surfaces. - No smoking

Keep container tightly closed

Ground/bond container and receiving equipment

Use explosion-proof electrical/ventilating/lighting equipment

Use only non-sparking tools

Take precautionary measures against static discharge

Keep cool

### Response

IF exposed: Call a POISON CENTER or doctor/physician

#### Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Call a POISON CENTER or doctor/physician

#### Skin

Call a POISON CENTER or doctor/physician if you feel unwell

Wash contaminated clothing before reuse

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower

#### Ingestion

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician

Rinse mouth

# Fire

In case of fire: Use CO2, dry chemical, or foam for extinction

#### Storage

Store locked up

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

#### Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

### Other hazards

Poison, may be fatal or cause blindness if swallowed. Vapor harmful. CANNOT BE MADE NON-POISONOUS. WARNING. Reproductive Harm - https://www.p65warnings.ca.gov/.

# 3. Composition/Information on Ingredients

Component CAC NO Troight 70
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Methyl alcohol	67-56-1	99.98
Methyl red	493-52-7	0.02

## 4. First-aid measures

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. **Eye Contact** 

Immediate medical attention is required.

**Skin Contact** Wash off immediately with plenty of water for at least 15 minutes. Immediate medical

attention is required.

Remove to fresh air. If breathing is difficult, give oxygen. Do not use mouth-to-mouth Inhalation

> method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.

Immediate medical attention is required.

Ingestion Do NOT induce vomiting. Call a physician or poison control center immediately.

Most important symptoms and

effects

Difficulty in breathing. Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting

Treat symptomatically

# 5. Fire-fighting measures

**Unsuitable Extinguishing Media** No information available

12 °C **Flash Point** 

Method -No information available

**Autoignition Temperature** 

**Explosion Limits** 

Notes to Physician

455 °C

36.00% Upper 6.0% Lower

Sensitivity to Mechanical Impact No information available Sensitivity to Static Discharge No information available

### Specific Hazards Arising from the Chemical

Keep product and empty container away from heat and sources of ignition.

## **Hazardous Combustion Products**

None known.

# **Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA

**Physical hazards** Health **Flammability** Instability 3 3 0 N/A

# Accidental release measures

Ensure adequate ventilation. Use personal protective equipment as required. **Personal Precautions** 

**Environmental Precautions** See Section 12 for additional Ecological Information.

Methods for Containment and Clean No information available.

Up

# 7. Handling and storage

**Handling** Wear personal protective equipment/face protection. Do not breathe mist/vapors/spray.

Ensure adequate ventilation. Keep away from open flames, hot surfaces and sources of ignition. Remove all sources of ignition. Take precautionary measures against static

discharges.

Storage. Keep containers tightly closed in a dry, cool and well-ventilated place.

# 8. Exposure controls / personal protection

### **Exposure Guidelines**

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH	Mexico OEL (TWA)
Methyl alcohol	TWA: 200 ppm	(Vacated) TWA: 200 ppm	IDLH: 6000 ppm	TWA: 200 ppm
	STEL: 250 ppm	(Vacated) TWA: 260 mg/m <sup>3</sup>	TWA: 200 ppm	STEL: 250 ppm
	Skin	(Vacated) STEL: 250 ppm	TWA: 260 mg/m <sup>3</sup>	
		(Vacated) STEL: 325 mg/m <sup>3</sup>	STEL: 250 ppm	
		Skin	STEL: 325 mg/m <sup>3</sup>	
		TWA: 200 ppm	_	
		TWA: 260 mg/m <sup>3</sup>		

#### Legend

ACGIH - American Conference of Governmental Industrial Hygienists

OSHA - Occupational Safety and Health Administration

NIOSH IDLH: NIOSH - National Institute for Occupational Safety and Health

Engineering Measures Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations

and safety showers are close to the workstation location. Use explosion-proof electrical/ventilating/lighting equipment. Use spark-proof tools and explosion-proof

equipment.

**Personal Protective Equipment** 

**Eye/face Protection** Wear appropriate protective eyeglasses or chemical safety goggles as described by

OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard

EN166.

**Skin and body protection**Wear appropriate protective gloves and clothing to prevent skin exposure.

Respiratory Protection Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard

EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

**Hygiene Measures** Handle in accordance with good industrial hygiene and safety practice.

# 9. Physical and chemical properties

Physical StateLiquidAppearanceClearOdorAlcohol-like

Odor Threshold No information available

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Melting Point/Range -98 °C

Boiling Point/Range 64.7 °C @ 760 mmHg

Flash Point 12 °C Evaporation Rate 5.2 (Ether = 1.0)

Flammability (solid,gas)

No information available

Flammability or explosive limits

Upper 36.00%
Lower 6.0%

Vapor Pressure 128 mmHg @ 20 °C

#### Methyl Red, 0.02% W/V Solution in Methanol

Vapor Density 1.11 (Air = 1.0) Specific Gravity 0.7910

Solubility Miscible with water Partition coefficient; n-octanol/water No data available

Autoignition Temperature 455 °C

Decomposition TemperatureNo information availableViscosityNo information available

Molecular FormulaCH4OMolecular Weight32.04

# 10. Stability and reactivity

Reactive Hazard None known, based on information available

**Stability** Stable under normal conditions.

Conditions to Avoid Incompatible products.

Incompatible Materials Strong oxidizing agents

Hazardous Decomposition Products None under normal use conditions

Hazardous Polymerization Hazardous polymerization does not occur.

**Hazardous Reactions** None under normal processing.

# 11. Toxicological information

### **Acute Toxicity**

**Product Information** 

Oral LD50Category 3.Dermal LD50Category 3.Mist LC50Category 3.

**Component Information** 

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Methyl alcohol	LD50 = 1187 – 2769 mg/kg (Rat)	LD50 = 17100 mg/kg ( Rabbit )	LC50 = 128.2 mg/L (Rat) 4 h

Toxicologically Synergistic No information available

**Products** 

Delayed and immediate effects as well as chronic effects from short and long-term exposure

IrritationNo information availableSensitizationNo information available

**Carcinogenicity** The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico
Methyl alcohol	67-56-1	Not listed				
Methyl red	493-52-7	Not listed				

Mutagenic Effects No information available

Reproductive Effects

No information available.

Developmental Effects

No information available.

Teratogenicity

No information available.

STOT - single exposure Optic nerve Respiratory system Central nervous system (CNS)

STOT - repeated exposure Kidney Liver Blood Gastrointestinal tract (GI)

Aspiration hazard No information available

Symptoms / effects,both acute and Inhalation of high vapor concentrations may cause symptoms like headache, dizziness,

delayed

tiredness, nausea and vomiting

Endocrine Disruptor Information No information available

Other Adverse Effects The toxicological properties have not been fully investigated.

# 12. Ecological information

#### **Ecotoxicity**

Do not empty into drains.

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Methyl alcohol	Not listed	Pimephales promelas: LC50	EC50 = 39000 mg/L 25 min	EC50 > 10000 mg/L 24h
		> 10000 mg/L 96h	EC50 = 40000 mg/L 15 min	_
			EC50 = 43000 mg/L 5 min	

Persistence and Degradability

No information available

**Bioaccumulation/ Accumulation** No information available.

**Mobility** No information available.

Component	log Pow
Methyl alcohol	-0.74
Methyl red	3.83

# 13. Disposal considerations

**Waste Disposal Methods** 

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

Component	RCRA - U Series Wastes	RCRA - P Series Wastes
Methyl alcohol - 67-56-1	U154	-

# 14. Transport information

DOTNot regulatedTDGNot regulatedIATANot regulatedIMDG/IMONot regulated

# 15. Regulatory information

#### **United States of America Inventory**

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
Methyl alcohol	67-56-1	Χ	ACTIVE	-
Methyl red	493-52-7	X	ACTIVE	-

### Legend:

TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710)

X - Listed

'-' - Not Listed

TSCA 12(b) - Notices of Export Not applicable

#### **International Inventories**

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL).

Component	CAS No	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL
Methyl alcohol	67-56-1	Χ	-	200-659-6	Χ	Χ	Χ	Х	Χ	KE-23193
Methyl red	493-52-7	Χ	-	207-776-1	Х	-		Х	Х	KE-06693

KECL - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

#### U.S. Federal Regulations

## **SARA 313**

Component	CAS No	Weight %	SARA 313 - Threshold Values %
Methyl alcohol	67-56-1	99.98	1.0

SARA 311/312 Hazard Categories See section 2 for more information

CWA (Clean Water Act) Not applicable

#### Clean Air Act

Component	HAPS Data	Class 1 Ozone Depletors	Class 2 Ozone Depletors
Methyl alcohol	X		-

**OSHA** - Occupational Safety and

Health Administration

Not applicable

CERCLA Not applicable

Component		Hazardous Substances RQs	CERCLA EHS RQs	
	Methyl alcohol	5000 lb	-	

## **California Proposition 65**

This product contains the following Proposition 65 chemicals.

	Component	Component CAS No California Pro		Prop 65 NSRL	Category	
Ī	Methyl alcohol	67-56-1	Developmental	-	Developmental	

# U.S. State Right-to-Know

# Regulations

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Methyl alcohol	X	X	X	X	X

### **U.S. Department of Transportation**

Reportable Quantity (RQ): Y
DOT Marine Pollutant N
DOT Severe Marine Pollutant N

# U.S. Department of Homeland

Security

This product does not contain any DHS chemicals.

### Other International Regulations

Mexico - Grade No information available

## Authorisation/Restrictions according to EU REACH

Component		REACH (1907/2006) - Annex XVII - Restrictions on Certain Dangerous Substances	
Methyl alcohol	-	Use restricted. See item 69.	-

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https://echa.europa.eu/substances-restricted-under-reach

## Safety, health and environmental regulations/legislation specific for the substance or mixture

Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
Methyl alcohol	67-56-1	Listed	Not applicable	Not applicable	Not applicable
Methyl red	493-52-7	Not applicable	Not applicable	Not applicable	Not applicable

Component	CAS No	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)
Methyl alcohol	67-56-1	500 tonne	5000 tonne	Not applicable	Not applicable
Methyl red	493-52-7	Not applicable	Not applicable	Not applicable	Not applicable

# 16. Other information

Prepared By Regulatory Affairs

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Revision Summary

This document has been updated to comply with the US OSHA HazCom 2012 Standard

replacing the current legislation under 29 CFR 1910.1200 to align with the Globally

Harmonized System of Classification and Labeling of Chemicals (GHS).

## Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

**End of SDS**