## Methyl Red, 0.2%, Alcoholic



### Section 1

## **Product Description**

**Product Name:** Methyl Red, 0.2%, Alcoholic **Recommended Use:** Science education applications

Synonyms: Methyl Red Reagent

**Distributor:** Carolina Biological Supply Company

2700 York Road, Burlington, NC 27215

1-800-227-1150

Chemical Information: 800-227-1150 (8am-5pm (ET) M-F)

Chemtrec: 800-424-9300 (Transportation Spill Response 24 hours)

### Section 2

### **Hazard Identification**

Classification of the chemical in accordance with paragraph (d) of §1910.1200;

# **WARNING**



Flammable liquid and vapor. Causes eye irritation.

#### **GHS Classification:**

Serious Eye Damage/Eye Irritation Category 2B, Flammable Liquid Category 3

# Section 3 Composition / Information on Ingredients

Chemical Name	CAS#	<u>%</u>
Water	7732-18-5	52.3
Ethanol	64-17-5	42.99
2-Propanol	67-63-0	2.38
Methanol	67-56-1	2.14
Methyl Red	493-52-7	0.2

### **Section 4**

### First Aid Measures

**Emergency and First Aid Procedures** 

**Inhalation:** In case of accident by inhalation: remove casualty to fresh air and keep at rest.

Eyes: IF IN EYES: 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.

Skin Contact: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with

water/shower.

**Ingestion:** If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

### Section 5

# Firefighting Procedures

**Extinguishing Media:** Use dry chemical, CO2 or appropriate foam.

Fire Fighting Methods and Protection: Firefighters should wear full protective equipment and NIOSH approved self-contained

breathing apparatus.

Fire and/or Explosion Hazards: Fire or excessive heat may produce hazardous decomposition products.

Hazardous Combustion Products: Carbon dioxide, Carbon monoxide

### Section 6

# **Spill or Leak Procedures**

Steps to Take in Case Material Is Released or Spilled:

No health affects expected from the clean-up of this material if contact can be avoided. Follow personal protective equipment recommendations found in Section 8 of this (M)SDS Ventilate the contaminated area.

Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation. Shut off ignition sources; including electrical equipment and flames. Do not allow smoking in the area.

**Section 7** Handling and Storage

Handling: 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. Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection.

Storage: Keep container tightly closed. Store in a well-ventilated place. Keep cool. Suitable for any general chemical

storage.

Storage Code: Red - Flammables. Store in approved flammable containers. Store away from oxidizing materials.

#### Section 8 Protection Information

	ACC	<u>OSHA PEL</u>		
Chemical Name	<u>(TWA)</u>	(STEL)	(TWA)	(STEL)
Ethanol	N/A	1000 ppm STEL	1000 ppm TWA; 1900 mg/m3 TWA	N/A
2-Propanol	200 ppm TWA	400 ppm STEL	400 ppm TWA; 980 mg/m3 TWA	N/A
Methanol	200 ppm TWA	250 ppm STEL	200 ppm TWA; 260 mg/m3 TWA	N/A

**Control Parameters** 

**Engineering Measures:** Local exhaust ventilation or other engineering controls are normally required when

handling or using this product to avoid overexposure.

Personal Protective Equipment (PPE):

**Respiratory Protection:** 

Lab coat, apron, eve wash, safety shower.

Respiratory protection may be required to avoid overexposure when handling this product. General or local exhaust ventilation is the preferred means of protection. Use a respirator if general room ventilation is not available or sufficient to eliminate symptoms. None required where adequate ventilation is provided. If airborne concentrations are

Respirator Type(s): above the applicable exposure limits, use NIOSH/MSHA approved respiratory protection. Eye Protection:

Wear chemical splash goggles when handling this product. Have an eye wash station

available.

Avoid skin contact by wearing chemically resistant gloves, an apron and other protective Skin Protection:

equipment depending upon conditions of use. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving

work.

Gloves: Nitrile

#### **Physical Data** Section 9

Formula: See Section 3 Molecular Weight: N/A

Appearance: Colorless Red Liquid Odor: Moderate Alcohol Odor Fruity Odor Threshold: No data available

pH: No data available Melting Point: -114 C Boiling Point: Estimated 81 C

Flash Point: 24 C

Flammable Limits in Air: No data available

Vapor Pressure: No data available

Evaporation Rate (BuAc=1): No data available Vapor Density (Air=1): No data available

Specific Gravity: 0.9 Solubility in Water: Soluble

Log Pow (calculated): No data available Autoignition Temperature: No data available **Decomposition Temperature:** No data available

Viscosity: No data available Percent Volatile by Volume: 50%

#### Section 10 Reactivity Data

**Reactivity:** Not generally reactive under normal conditions.

Chemical Stability: Stable under normal conditions.

Conditions to Avoid: Temperatures above flash point in combination with sparks, open flames, or other

sources of ignition.

Incompatible Materials: Water-reactive materials, Organic Peroxides, Strong acids, Oxidizing materials

Hazardous Decomposition Products: Carbon oxides
Hazardous Polymerization: Will not occur

### Section 11

## **Toxicity Data**

**Routes of Entry** Inhalation, ingestion, eye or skin contact.

Symptoms (Acute): Respiratory Irritation, Dermititis, Central Nervous System Depression, Dizziness

**Delayed Effects:** No data available

**Acute Toxicity:** 

Chemical Name	CAS Number	Oral LD50	Dermal LD50	Inhalation LC50
Water	7732-18-5	Oral LD50 Rat		
		90000 mg/kg		
2-Propanol	67-63-0	Oral LD50 Rat		INHALATION
·		5045 mg/kg		LC50 Rat 16000
		Oral LD50 Mouse		ppm
		3600 mg/kg		• •
Methanol	67-56-1	Oral LD50 Mouse		INHALATION
		7300 mg/kg		LC50 Rat 64000
				nnm

ppm

Carcinogenicity:

Chemical Name	CAS Number	IARC	NTP	OSHA
Ethanol	64-17-5	Listed	Listed	Listed
2-Propanol	67-63-0	Listed	Not listed	Not listed
Methanol	67-56-1	Not listed	Not listed	Not listed

**Chronic Effects:** 

**Mutagenicity:** No evidence of a mutagenic effect.

**Teratogenicity:** No evidence of a teratogenic effect (birth defect).

**Sensitization:** No evidence of a sensitization effect.

**Reproductive:** No evidence of negative reproductive effects.

**Target Organ Effects:** 

Acute: Central Nervous System
Chronic: No information available

## **Section 12**

## **Ecological Data**

Overview: This material is not expected to be harmful to the ecology.

**Mobility:** This material is expected to have high mobility in soil. It absorbs weakly to most soil types.

Persistence: Biodegradation

**Bioaccumulation:** Bioconcentration is not expected to occur.

**Degradability:** Biodegrades at a moderate rate.

Other Adverse Effects: No data

Chemical NameCAS NumberEco ToxicityWater7732-18-5No data available

Ethanol 64-17-5 96 HR LC50 PIMEPHALES PROMELAS > 100 MG/L [STATIC]

48 HR EC50 DAPHNIA MAGNA 2 MG/L [STATIC] 24 HR EC50 DAPHNIA MAGNA 10800 MG/L 48 HR LC50 DAPHNIA MAGNA 9268 - 14221 MG/L

2-Propanol 67-63-0 96 HR LC50 LEPOMIS MACROCHIRUS > 1400000 μG/L

96 HR LC50 PIMEPHALES PROMELAS 11130 MG/L [STATIC]

48 HR EC50 DAPHNIA MAGNA 13299 MG/L

72 HR EC50 DESMODESMUS SUBSPICATUS > 1000 MG/L

96 HR EC50 DESMODESMUS SUBSPICATUS > 1000 MG/L

Methanol 67-56-1 96 HR LC50 PIMEPHALES PROMELAS > 100 MG/L [STATIC]

### **Section 13**

## **Disposal Information**

Disposal Methods: Dispose in accordance with all applicable Federal, State and Local regulations. Always

contact a permitted waste disposer (TSD) to assure compliance.

Waste Disposal Code(s): If discarded, this product is considered a RCRA ignitable waste, D001.

### Section 14

## **Transport Information**

Ground - DOT Proper Shipping Name: Air - IATA Proper Shipping Name:

UN1993 UN1993

Flammable liquids, n.o.s.(Ethyl alcohol) Flammable liquids, n.o.s.(Ethyl alcohol)

Class 3 Class 3 P.G. III P.G. III

### Section 15

## Regulatory Information

**TSCA Status:** All components in this product are on the TSCA Inventory.

Chemical Name	CAS Number	§ 313 Name	§ 304 RQ	CERCLA RQ	§ 302 TPQ	CAA 112(2) TQ
Ethanol	64-17-5	No	No	No	No	No
2-Propanol	67-63-0	No	No	No	No	No
Methanol	67-56-1	No	No	No	No	No

California Prop 65:

WARNING: This product contains a chemical known to the state of California to cause cancer, birth defects or other reproductive harm.

## **Section 16**

## **Additional Information**

Revised: 09/09/2015 Replaces: 06/03/2015 Printed: 10-29-2015

The information provided in this (Material) Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the (Material) Safety Data Sheet.

### Glossary

ACGIH	American Conference of Governmental	NTP	National Toxicology Program
	Industrial Hygienists	OSHA	Occupational Safety and Health Administration
CAS	Chemical Abstract Service Number	PEL	Permissible Exposure Limit
CERCLA	Comprehensive Environmental Response,	ppm	Parts per million
	Compensation, and Liability Act	RCRA	Resource Conservation and Recovery Act
DOT	U.S. Department of Transportation	SARA	Superfund Amendments and Reauthorization Act
IARC	International Agency for Research on Cancer	TLV	Threshold Limit Value
N/A	Not Available	TSCA	Toxic Substances Control Act
		IDLH	Immediately dangerous to life and health