

# Safety Data Sheet

## Methyl Orange Solution

### Section 1

### Product Description

**Product Name:** Methyl Orange Solution  
**Recommended Use:** Science education applications  
**Supplier:** C2A Sales & Supplies (Barbados) Ltd.  
#3 Canewood Road, Jackson, St. Michael, Barbados BB11005  
1-246-426-1256

### Section 2

### Hazard Identification

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

Not a dangerous substance according to GHS classification criteria. No known OSHA hazards.

**GHS Classification:**

### Section 3

### Composition / Information on Ingredients

<b>Chemical Name</b>	<b>CAS #</b>	<b>%</b>
Water	7732-18-5	57.01
Sucrose	57-50-1	42.89
Methyl orange	547-58-0	0.11
Tris(Hydroxymethyl) Aminomethane	77-86-1	0.01

### 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:** In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
**Skin Contact:** After contact with skin, wash immediately with plenty of water.  
**Ingestion:** If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

### Section 5

### Firefighting Procedures

**Extinguishing Media:** Use media suitable to extinguish surrounding fire.  
**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, Sulfur Oxides, oxides of nitrogen

### 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 No special spill clean-up considerations. Collect and discard in regular trash.

### Section 7

### Handling and Storage

**Storage:** Suitable for any general chemical storage.  
Keep container tightly closed in a cool, well-ventilated place.  
**Storage Code:** Green - general chemical storage

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## Section 8

## Protection Information

<u>Chemical Name</u>	<u>ACGIH</u>		<u>OSHA PEL</u>	
	<u>(TWA)</u>	<u>(STEL)</u>	<u>(TWA)</u>	<u>(STEL)</u>
No data available	N/A	N/A	N/A	N/A

### Control Parameters

#### Engineering Measures:

No exposure limits exist for the constituents of this product. General room ventilation might be required to maintain operator comfort under normal conditions of use.

#### Personal Protective Equipment (PPE):

Lab coat, apron, eye wash, safety shower.

#### Respiratory Protection:

No respiratory protection required under normal conditions of use.

#### Eye Protection:

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

#### Skin Protection:

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

No information available

## Section 9

## Physical Data

**Formula:** This product is a mixture.

**Vapor Pressure:** No data available

**Molecular Weight:** This product is a mixture.

**Evaporation Rate (BuAc=1):** No data available

**Appearance:** Blue

**Vapor Density (Air=1):** No data available

**Odor:** None

**Specific Gravity:** No data available

**Odor Threshold:** No data available

**Solubility in Water:** Soluble

**pH:** No data available

**Log Pow (calculated):** No data available

**Melting Point:** 0 C

**Autoignition Temperature:** No data available

**Boiling Point:** 100 C

**Decomposition Temperature:** No data available

**Flash Point:** No data available

**Viscosity:** No data available

**Flammable Limits in Air:** No data available

**Percent Volatile by Volume:** No data available

## Section 10

## Reactivity Data

**Reactivity:**

No data available

**Chemical Stability:**

Stable under normal conditions.

**Conditions to Avoid:**

None known.

**Incompatible Materials:**

Water-reactive materials, Strong acids, Strong oxidizing agents

**Hazardous Decomposition Products:**

Carbon dioxide, Carbon monoxide, Sulfur Oxides, oxides of nitrogen

**Hazardous Polymerization:**

Will not occur

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### Section 11 Toxicity Data

**Routes of Entry:** Inhalation, ingestion, eye or skin contact.  
**Symptoms (Acute):** No data available  
**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		
Sucrose	57-50-1	Oral LD50 Rat 29700 mg/kg		
Methyl orange	547-58-0	Oral LD50 Rat 60 mg/kg		

**Carcinogenicity:**

Chemical Name	CAS Number	IARC	NTP	OSHA
No data available		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:** No information available, See Section 2  
**Chronic:** No information available

### Section 12 Ecological Data

**Overview:** Slight ecological hazard. In high concentrations, this product may be dangerous to plants and/or wildlife.  
**Mobility:** No data  
**Persistence:** Biodegradation, Dissolved into water  
**Bioaccumulation:** No data  
**Degradability:** No data  
**Other Adverse Effects:** No data

Chemical Name	CAS Number	Eco Toxicity
Water	7732-18-5	No data available
Sucrose	57-50-1	

### 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):** Not Determined

### Section 14 Transport Information

<b>Ground - DOT Proper Shipping Name:</b> Not regulated for transport by US DOT.	<b>Air - IATA Proper Shipping Name:</b> Not regulated for air transport by IATA.
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### 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
Sucrose	57-50-1	No	No	No	No	No

### Section 16

### Additional Information

**Revised: 04/19/2017**
**Replaces: 06/08/2016**
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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 Industrial Hygienists	NTP	National Toxicology Program
CAS	Chemical Abstract Service Number	OSHA	Occupational Safety and Health Administration
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act	PEL	Permissible Exposure Limit
DOT	U.S. Department of Transportation	ppm	Parts per million
IARC	International Agency for Research on Cancer	RCRA	Resource Conservation and Recovery Act
N/A	Not Available	SARA	Superfund Amendments and Reauthorization Act
		TLV	Threshold Limit Value
		TSCA	Toxic Substances Control Act
		IDLH	Immediately dangerous to life and health

