

# SAFETY DATA SHEET

Be Right<sup>™</sup>

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1. IDENTIFICATION				
<u>Product identifier</u> Product Name	Methyl Orange Indicator Solution 0.5 g/l			
Other means of identification Product Code(s)	14832			
Safety data sheet number	M00746			
Recommended use of the chemical and restrictions on useRecommended UseIndicator for pH.Uses advised againstNone.Restrictions on useNone.				
Details of the supplier of the safety data sheet				

Manufacturer Address

Hach Company P.O.Box 389 Loveland, CO 80539 USA +1(970) 669-3050

### Emergency telephone number

+1(303) 623-5716 - 24 Hour Service +1(515)232-2533 - 8am - 4pm CST

# 2. HAZARDS IDENTIFICATION

### Classification

### **Regulatory Status**

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

# Hazards not otherwise classified (HNOC)

Not applicable

### Label elements

### Hazard statements

The product contains no substances which at their given concentration, are considered to be hazardous to health

### Other Hazards Known

Not applicable

# **3. COMPOSITION/INFORMATION ON INGREDIENTS**

Substance Not applicable

### <u>Mixture</u>

# 4. FIRST AID MEASURES

### **Description of first aid measures**

General advice	No hazards which require special first aid measures. Use first aid treatment according to the nature of the injury.	
Inhalation	Remove to fresh air.	
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.	
Skin contact	Wash skin with soap and water.	
Ingestion	Clean mouth with water and drink afterwards plenty of water.	
Most important symptoms and effects, both acute and delayed		
Symptoms	See Section 11 for additional Toxicological Information.	
Indication of any immediate medical attention and special treatment needed		
Note to physicians	Treat symptomatically.	

# **5. FIRE-FIGHTING MEASURES**

Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Unsuitable Extinguishing Media	Caution: Use of water spray when fighting fire may be inefficient.
Specific hazards arising from the chemical	No information available.
Hazardous combustion products	This material will not burn.
Special protective equipment for fire-fighters	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

## 6. ACCIDENTAL RELEASE MEASURES

U.S. Notice Only persons properly qualified to respond to an emergency involving hazardous substances may respond to a spill according to federal regulations (OSHA 29 CFR 1910.120(a)(v)) and per your company's emergency response plan and guidelines/procedures. See Section 13, Special Instructions for disposal assistance. Outside of the US, only persons properly qualified according to state or local regulations should respond to a spill involving chemicals.

### Personal precautions, protective equipment and emergency procedures

**Personal precautions** 

Ensure adequate ventilation.

### Environmental precautions

Environmental precautions	See Section 12 for additional ecological information.	
Methods and material for containment and cleaning up		
Methods for containment	Prevent further leakage or spillage if safe to do so.	
Methods for cleaning up	Pick up and transfer to properly labeled containers.	
Prevention of secondary hazards	Clean contaminated objects and areas thoroughly observing environmental regulations.	
Reference to other sections	See section 8 for more information. See section 13 for more information.	

7. HANDLING AND STORAGE		
Precautions for safe handling		
Advice on safe handling	Handle in accordance with good industrial hygiene and safety practice.	
Conditions for safe storage, including any incompatibilities		
Storage Conditions	Keep containers tightly closed in a dry, cool and well-ventilated place.	
Flammability class	Not applicable	

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters	
Exposure Guidelines	This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies
Appropriate engineering controls Engineering Controls	Showers Eyewash stations Ventilation systems.
Individual protection measures, suc Respiratory protection	ch as personal protective equipment No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.
Hand Protection	Wear suitable gloves.
Eye/face protection	Wear safety glasses with side shields (or goggles).
Skin and body protection	No special protective equipment required.
General Hygiene Considerations	Handle in accordance with good industrial hygiene and safety practice.
Environmental exposure controls	Local authorities should be advised if significant spillages cannot be contained. Do not allow into any sewer, on the ground or into any body of water.
Thermal hazards	None under normal processing.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

Physical state Appearance Odor	aqueous solution None	Liquid		Color Odor threshold	Dark red to No data ava	
Property			Values			Remarks • Method
Molecular weight	t		No data availat	ble		
рН			6.8			
Melting point/free	ezing point		~ 0 °C / 32 °	ŶF		Estimation based on theoretical calculation
Boiling point / bo	iling range		~ 100 °C / 2	12 °F		Estimation based on theoretical calculation
Evaporation rate			0.76 (water = 1	)		
Vapor pressure			23.777 mm Hg	/ 3.17 kPa at 25	°C / 77 °F	Estimation based on theoretical calculation
Vapor density (ai	r = 1)		0.62 (air = 1)			
Specific gravity (	water = 1 / air = 1)		0.99			
Partition Coeffici	ent (n-octanol/wate	er)	Not applicable			
Soil Organic Carl	bon-Water Partition	า	Not applicable			
Autoignition tem	perature		No data availat	ble		
Decomposition to	emperature		No data availat	ble		
Dynamic viscosi	<sup>t</sup> y		No data availat	ble		
Kinematic viscos	sity		No data availat	ble		
<u>Solubility(ies)</u>						

### Water solubility

Water solubility classification	Water solubility	Water Solubility Temperature
Soluble	> 1000 mg/L	25 °C / 77 °F

### Solubility in other solvents

Chemical Name	Solubility classification	Solubility	Solubility Temperature
Acid	Precipitate may form	No data available	No information available

### **Other Information**

**Metal Corrosivity** 

### Steel Corrosion Rate Aluminum Corrosion Rate

No data available No data available

### Volatile Organic Compounds (VOC) Content

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Explosive properties		
Upper explosion limit Lower explosion limit		No data available No data available
Flammable properties		
Flash point Method		No data available No information available
Flammability Limit in Air Upper flammability limit: Lower flammability limit:		No data available No data available
Oxidizing properties		No data available.
Bulk density		Not applicable
Particle Size	No information available	
Particle Size Distribution	No information available	

# **10. STABILITY AND REACTIVITY**

Reactivity Not applicable.
<u>Chemical stability</u> Stability
Explosion data

Stable under normal conditions.

Explosion data Sensitivity to Mechanical Impact None Sensitivity to Static Discharge None.

<u>Possibility of Hazardous Reactions</u> Possibility of Hazardous Reactions None under normal processing.

### Hazardous polymerization None under normal processing.

Conditions to avoid Conditions to avoid

None known based on information supplied.

Incompatible materials Incompatible materials

Strong oxidizing agents, strong acids, and strong bases.

### Hazardous Decomposition Products

None known based on information supplied.

# **11. TOXICOLOGICAL INFORMATION**

No known effect based on information supplied.

#### Information on Likely Routes of Exposure Product Information

Inhalation No known effect based on information supplied.

Eye contact

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Skin contact	No known effect based on information supplied.
Ingestion	No known effect based on information supplied.
Symptoms	No information available.
Aggravated Medical Conditions Toxicologically synergistic products Toxicokinetics, metabolism and distribution	None known. None known. See ingredients information below.

Product Acute Toxicity Data **Oral Exposure Route Dermal Exposure Route** Inhalation (Dust/Mist) Exposure Route Inhalation (Vapor) Exposure Route Inhalation (Gas) Exposure Route

No data available No data available No data available No data available No data available

### **Unknown Acute Toxicity**

0% of the mixture consists of ingredient(s) of unknown toxicity.

### Acute Toxicity Estimations (ATE)

ATEmix (oral)	No information available
ATEmix (dermal)	No information available
ATEmix (inhalation-dust/mist)	No information available
ATEmix (inhalation-vapor)	No information available
ATEmix (inhalation-gas)	No information available

# Ingredient Acute Toxicity Data

**Oral Exposure Route Dermal Exposure Route** Inhalation (Dust/Mist) Exposure Route Inhalation (Vapor) Exposure Route Inhalation (Gas) Exposure Route

... \_

If available, see data below If available, see data below

### Product Specific Target Organ Toxicity Single Exposure Data

**Oral Exposure Route** No data available **Dermal Exposure Route** No data available Inhalation (Dust/Mist) Exposure Route No data available Inhalation (Vapor) Exposure Route No data available Inhalation (Gas) Exposure Route No data available

Ingredient Specific Target Organ Toxicity Single Exposure Data			
Oral Exposure Route	If available, see data below		
Dermal Exposure Route	If available, see data below		
Inhalation (Dust/Mist) Exposure Route	If available, see data below		
Inhalation (Vapor) Exposure Route	If available, see data below		
Inhalation (Gas) Exposure Route	If available, see data below		

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#### Aspiration toxicity No data available

# **Product Skin Corrosion/Irritation Data**

No data available.

#### Ingredient Skin Corrosion/Irritation Data If available, see data below

Product Code(s) 14832 Issue Date 15-Jan-2018 Version 2.3	Product Name Methyl Orange Indicator Solution 0.5 g/l Revision Date 06-Feb-2018 Page 7 / 12
Product Serious Eye Damage/Eye Irritation Data No data available.	
Ingredient Eye Damage/Eye Irritation Data No data available	
Sensitization Information	
Product Sensitization Data Skin Sensitization Exposure Route Respiratory Sensitization Exposure Route	No data available. No data available.
Ingredient Sensitization Data Skin Sensitization Exposure Route Respiratory Sensitization Exposure Route	If available, see data below. If available, see data below.
Chronic Toxicity Information	
Product Specific Target Organ Toxicity Repeat Dose Data Oral Exposure Route Dermal Exposure Route Inhalation (Dust/Mist) Exposure Route Inhalation (Vapor) Exposure Route Inhalation (Gas) Exposure Route Ingredient Specific Target Organ Toxicity Repeat Exposure	
Oral Exposure Route Dermal Exposure Route Inhalation (Dust/Mist) Exposure Route Inhalation (Vapor) Exposure Route Inhalation (Gas) Exposure Route	If available, see data below If available, see data below If available, see data below If available, see data below If available, see data below
<u>Product Carcinogenicity Data</u> Oral Exposure Route Dermal Exposure Route Inhalation (Dust/Mist) Exposure Route Inhalation (Vapor) Exposure Route Inhalation (Gas) Exposure Route Ingredient Carcinogenicity Data	No data available No data available No data available No data available No data available

### Legend

ACGIH (American Conference of Governmental Industrial Hygienists)	Does not apply
IARC (International Agency for Research on Cancer)	Does not apply
NTP (National Toxicology Program)	Does not apply
OSHA (Occupational Safety and Health Administration of the US Department of	Does not apply
Labor)	

If available, see data below

Oral Exposure Route Dermal Exposure Route Inhalation (Dust/Mist) Exposure Route Inhalation (Vapor) Exposure Route Inhalation (Gas) Exposure Route

Product Germ Cell Mutagenicity *invitro* Data No data available.

Ingredient Germ Cell Mutagenicity *invitro* Data If available, see data below

Product Germ Cell Mutagenicity invivo Data Oral Exposure Route Dermal Exposure Route Inhalation (Dust/Mist) Exposure Route Inhalation (Vapor) Exposure Route Inhalation (Gas) Exposure Route

Ingredient Germ Cell Mutagenicity invivo Data Oral Exposure Route Dermal Exposure Route Inhalation (Dust/Mist) Exposure Route Inhalation (Vapor) Exposure Route Inhalation (Gas) Exposure Route

Product Reproductive Toxicity Data Oral Exposure Route Dermal Exposure Route Inhalation (Dust/Mist) Exposure Route Inhalation (Vapor) Exposure Route Inhalation (Gas) Exposure Route

Ingredient Reproductive Toxicity Data Oral Exposure Route Inhalation (Dust/Mist) Exposure Route Inhalation (Vapor) Exposure Route Inhalation (Gas) Exposure Route Product Name Methyl Orange Indicator Solution 0.5 g/l Revision Date 06-Feb-2018 Page 8 / 12

No data available No data available No data available No data available No data available

If available, see data below If available, see data below

No data available No data available No data available No data available No data available

If available, see data below If available, see data below If available, see data below If available, see data below

# 12. ECOLOGICAL INFORMATION

Ecotoxicity

Not considered to be harmful to aquatic life

Product Ecological Data

Aquatic toxicity

Fish Crustacea Algae

**Ingredient Ecological Data** 

Aquatic toxicity

Fish Crustacea Algae

**Other Information** 

Persistence and degradability

Product Biodegradability Data No data available.

Ingredient Biodegradability Data

**Bioaccumulation** 

Product Bioaccumulation Data No data available.

EN / AGHS

No data available No data available No data available

If available, see ingredient data below If available, see ingredient data below If available, see ingredient data below

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### Partition Coefficient (n-octanol/water)

**Ingredient Bioaccumulation Data** 

Mobility

Soil Organic Carbon-Water Partition Coefficient

Not applicable

Not applicable

### Water solubility

Water solubility classification	Water solubility	Water Solubility Temperature
Soluble	> 1000 mg/L	25 °C / 77 °F

#### Other adverse effects

No information available.

13. DISPOSAL CONSIDERATIONS			
Waste treatment methods			
Waste from residues/unused products	Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.		
Contaminated packaging	Do not reuse empty containers.		
Special instructions for disposal	If permitted by regulation. Dilute to 3 to 5 times the volume with cold water. Open cold water tap completely, slowly pour the material to the drain. Flush system with plenty of water. Dispose of material in an E.P.A. approved hazardous waste facility.		
14. TRANSPORT INFORMATION			
U.S. DOT	Not regulated		
TDG	Not regulated		
IATA_	Not regulated		
IMDG	Not regulated		
Note:	No special precautions necessary.		

### Additional information

There is a possibility that this product could be contained in a reagent set or kit composed of various compatible dangerous goods. If the item is not in a reagent set or kit, the classification given above applies.

If the item is part of a reagent set or kit the classification would change to the following:

UN3316 Chemical Kit, Hazard Class 9, Packing Group II or III.

If the item is not regulated, the Chemical Kit classification does not apply.

# **15. REGULATORY INFORMATION**

National Inventories	
TSCA	Complies
DSL/NDSL	Complies

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory **DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

International Inventories	
EINECS/ELINCS	Complies
ENCS	Complies
IECSC	Complies
KECL	Complies
PICCS	Complies
TCSI	Complies
AICS	Complies
NZIOC	Complies

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances ENCS - Japan Existing and New Chemical Substances IECSC - China Inventory of Existing Chemical Substances KECL - Korean Existing and Evaluated Chemical Substances PICCS - Philippines Inventory of Chemicals and Chemical Substances TCSI - Taiwan Chemical Substances Inventory

**AICS** - Australian Inventory of Chemical Substances

NZIOC - New Zealand Inventory of Chemicals

### **US Federal Regulations**

### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories	
Acute health hazard	No
Chronic Health Hazard	No
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

### CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

### **CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

### US State Regulations

### California Proposition 65

This product does not contain any Proposition 65 chemicals

### U.S. State Right-to-Know Regulations

### U.S. EPA Label Information

# 16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

# Special Comments None

### Additional information

Global Automotive Declarable Substance List (GADSL) Not applicable

### NFPA and HMIS Classifications

NFPA	Health hazards - 0	Flammability - 0	Instability - 0	Physical and Chemical Properties -
HMIS	Health hazards - 0	Flammability - 0	Physical Hazards - 0	Personal protection - X - See section 8 for more information

### Key or legend to abbreviations and acronyms used in the safety data sheet

NIOSH IDLH ACGIH NDF		Immediately Dangerous to Life or Health ACGIH (American Conference of Governmental Industrial Hygienists) no data		
Legend - Sectio	n 8: EXPOSURE C	ONTROLS/PERSONAL P	ROTECTION	
TWA	TWA (time-weight	ted average)	STEL	STEL (Short Term Exposure Limit)
MAC	Maximum Allowable Concentration		Ceiling	Ceiling Limit Value
Х	Listed		Vacated	These values have no official status. The only binding levels of contaminants are those listed in the final OSHA PEL. These lists are for reference purposes only. Please note that some reference state regulations of these "liberated" exposure limits in their state regulations.
SKN* RSP+	Skin designation	lization	SKN+	Skin sensitization
RSP+ C M	Respiratory sensi Carcinogen mutagen	lization	R	Hazard Designation Reproductive toxicant
Prepared By		Hach Product Compliance Department		
Issue Date		15-Jan-2018		
<b>Revision Date</b>		06-Feb-2018		
<b>Revision Note</b>		None		
<u>Disclaimer</u>				

USER RESPONSIBILITY: Each user should read and understand this information and incorporate it in individual site safety programs in accordance with applicable hazard communication standards and regulations.

# THE INFORMATION CONTAINED HEREIN IS BASED ON DATA CONSIDERED TO BE ACCURATE. HOWEVER, NO WARRANTY IS EXPRESSED OR IMPLIED REGARDING THE ACCURACY OF THESE DATA OR THE RESULTS TO BE

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# OBTAINED FROM THE USE THEREOF.

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End of Safety Data Sheet