spectrum®



SAFETY DATA SHEET

Preparation Date: 12/14/2015	Revision Date: 9/18/2018	Revision Number: G2			
	1. IDENTIFICATION				
Product identifier					
Product code: Product Name:	M-218 METHYL ORANGE, 0.1 PERCENT (W/V) AG (U.S.P. TEST SOLUTION)	QUEOUS INDICATOR SOLUTION,			
Other means of identification Synonyms: CAS #: RTECS # CI#:	No information available Mixture Not available Not available				
Recommended use of the chem	ical and restrictions on use				
Recommended use: Uses advised against	No information available. No information available				
Supplier:	Spectrum Chemical Mfg. Corp 14422 South San Pedro St. Gardena, CA 90248 (310) 516-8000				
Order Online At: Emergency telephone number Contact Person: Contact Person:	https://www.spectrumchemical.com Chemtrec 1-800-424-9300 Martin LaBenz (West Coast) Ibad Tirmiz (East Coast)				
2. HAZARDS IDENTIFICATION					

Classification

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

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

Label elements

Not classified

Hazards not otherwise classified (HNOC) Not Applicable

Other hazards Not available

Product code: M-218

3. COMPOSITION/INFORMATION ON INGREDIENTS

Components		CAS-No.		Weight %	
Water		7732-18-5		99.9	
Methyl Orange		547-58-0		0.1	
		4. FIRST AID MEASUR	ES		
First aid measures					
General Advice:	have a	al Capital Poison Center in th poison emergency and need 222-1222.	•		
Skin Contact:	Wash off immediately with soap and plenty of water removing all contaminated clothing an shoes. Get medical attention if irritation develops.			contaminated clothing and	
Eye Contact:		yes with water for 15 minutes. G call a physician.	et medical attention if irri	tation occurs. If symptoms	
Inhalation:	Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.				
Ingestion:	Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Obtain medical attention.				
Most important symptoms and effect	ts, both	acute and delayed			
SymptomsMay cause eye/skin irritationMay cause gastrointestinal upset or indigestion					
Indication of any immediate medica	attentic	on and special treatment need	ed		
Notes to Physician:	Treat sy	mptomatically.			
Protection of first-aiders First-Aid Providers: Avoid exposure to contaminated clothing and equipment			other necessary protectiv	e clothing. Dispose of	
5. FIRE-FIGHTING MEASURES					
Extinguishing Media Suitable Extinguishing Media:				is involved in a fire, suitable for the type of	
Unsuitable Extinguishing Media		No informat	on available.		
Specific hazards arising from the chemical					
Hazardous Combustion Product	s:	No informat	on available.		
Specific hazards:		No informat	on available.		
Product code: M-218		roduct name: METHYL OR 0.1 PERCENT (W/V) AQUE DICATOR SOLUTION, (U.S.F SOLUTION)	OUS	2 / 11	

Special Protective Actions for Firefighters

Specific Methods:

No information available.

Special Protective Equipment for Firefighters:

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

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions:	Ensure adequate ventilation. Use personal protective equipment. Avoid contact with skin, eyes and clothing.	
Environmental precautions	Prevent further leakage or spillage if safe to do so.	
Methods and material for contai	nment and cleaning up	
Methods for containment	Stop leak if you can do it without risk. Absorb spill with inert material (e.g. vermiculite, dry sand or earth).	
Methods for cleaning up	Use appropriate tools to put the spilled material in a suitable chemical waste disposal container. Clean contaminated surface thoroughly.	

7. HANDLING AND STORAGE

Precautions for safe handling

Technical Measures/Precautions:

Use only in area provided with appropriate exhaust ventilation. Keep away from incompatible materials.

Safe Handling Advice

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Do not ingest. Do not breathe vapors or spray mist. Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Technical Measures/Storage Conditions:

Keep container tightly closed in a dry and well-ventilated place. Store at room temperature in the original container. Store away from incompatible materials.

Incompatible Materials:

Strong oxidizing agents

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

National occupational exposure limits

United States

Components	CAS-No.	OSHA	NIOSH	ACGIH	AIHA WEEL
Water	7732-18-5	None	None	None	None
Methyl Orange	547-58-0	None	None	None	None

Product code: M-218

Product name: METHYL ORANGE, 0.1 PERCENT (W/V) AQUEOUS INDICATOR SOLUTION, (U.S.P. TEST SOLUTION) 3/11

Canada

Components	CAS-No.	Canada - Alberta	Canada - British Columbia	Canada - Ontario	Canada - Quebec
Water	7732-18-5	None	None	None	None
Methyl Orange	547-58-0	None	None	None	None

Australia and Mexico

Components	CAS-No.	Australia	Mexico
Water	7732-18-5	None	None
Methyl Orange	547-58-0	None	None

Appropriate engineering controls

Engineering measures to reduce exposure:

Ensure adequate ventilation. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors and mist below their respective threshold limit value.

Individual protection measures, such as personal protective equipment

Personal Protective Equipment

Eye protection:	Goggles or Safety glasses with side-shields.
Skin and body protection:	Long sleeved clothing Chemical resistant apron Gloves
Respiratory protection:	Respiratory protection is not necessary for normal handling. Good room ventilation or use of local exhaust (fume hood) is sufficient. Use a vapor respirator under conditions where exposure to the substance is apparent (e.g. generation of high concentrations of mist or vapor, inadequate ventilation, development of respiratory tract irritation), and engineering controls are not feasible. Be sure to use an approved/certified respirator or equivalent.
Hygiene measures:	Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product. When using, do not eat, drink or smoke.

9. PHYSICAL AND CHEMICAL PROPERTIES			
Physical state:	Appearance:	Color:	
Liquid	No information available.	Orange.	
Odor:	Taste	Formula:	
Odorless.	No information available.	No information available	
Molecular/Formula weight (g/mole):	Flammability:	Flashpoint (°C/°F):	
No information available	No information available	No information available.	
Flash Point Tested according to:	Autoignition Temperature (°C/°F):	Lower Explosion Limit (%):	
Not available	No information available	No information available	
Upper Explosion Limit (%):	Melting point/range(°C/°F):	Decomposition temperature(°C/°F):	
No information available	No information available	No information available	
Product code: M-218	Product name: METHYL ORANGE, 0.1 PERCENT (W/V) AQUEOUS INDICATOR SOLUTION, (U.S.P. TEST SOLUTION)	4 / 11 Г	

Boiling point/range(°C/°F): No information available

Specific gravity: No information available

Evaporation rate: No information available

Odor threshold (ppm): No information available

Miscibility: No information available Bulk density: No information available

pH: No information available

Vapor density: No information available

Partition coefficient (n-octanol/water): No information available

Solubility: Freely soluble in water **Density (g/cm3):** No information available

Vapor pressure @ 20°C (kPa): No information available

VOC content (g/L): No information available

Viscosity: No information available

10. STABILITY AND REACTIVITY

<u>Reactivity</u> Reactive with strong oxidizing agents

Chemical stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions: Hazardous polymerization does not occur

<u>Conditions to avoid:</u> Incompatible materials.

Incompatible Materials: Strong oxidizing agents

Hazardous decomposition No information available.

products:

 Other Information

 Corrosivity:
 No information available

Special Remarks on Corrosivity: No information available

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Principal Routes of Exposure: Skin. Ingestion. Eyes.

Numerical measures of toxicity

Acute Toxicity

The following values are calculated based on chapter 3.1 of the GHS documentATEmix (oral)60024 mg/kgComponent Information

Water

Product code: M-218

CAS-No. LD50/oral/rat = > 90 mL/kg	7732-18-5 Oral L D50 Rat				
LD50/oral/mouse = No info					
LD50/dermal/rabbit = No information available					
LD50/dermal/rat = No information available					
LC50/inhalation/rat = No information available					
LC50/inhalation/mouse = N					
	ation = No information available				
Methyl Orange					
CAS-No. LD50/oral/rat = 60 mg/kg O	547-58-0				
LD50/oral/mouse = No info					
LD50/dermal/rabbit = No in					
LD50/dermal/rat = No inform					
LC50/inhalation/rat = No in					
LC50/inhalation/mouse = N					
Other LD50 or LC50information	ation = No information available				
Product Information					
i roudet information					
LD50/oral/rat =					
VALUE- Acute Tox Oral = No i	normation available				
LD50/oral/mouse = Value - Acute Tox Oral = No in	formation available				
LD50/dermal/rabbit VALUE-Acute Tox Dermal = N	o information available				
LD50/dermal/rat VALUE -Acute Tox Dermal = No information available					
LC50/inhalation/rat VALUE-Vapor = No information available VALUE-Gas = No information available VALUE-Dust/Mist = No information available					
LC50/Inhalation/mouse VALUE-Vapor = No information available VALUE - Gas = No information available VALUE - Dust/Mist = No information available					
<u>Symptoms</u>					
Skin Contact:	May cause skin irritation. May cause mild to moderate skin irritation.				
Eye Contact:	May cause eye irritation.				
Inhalation	May cause irritation of respiratory tract.				
Ingestion	Ingestion of very large quantities may cause gastrointestinal upset or indigestion.				
Aspiration hazard	No information available.				
Delayed and immediate effects	s as well as chronic effects from short and long-term exposure				

Chronic Toxicity

No information available.

Sensitization: No information available.

 Mutagenic Effects:
 For Methyl Orange:

 Mutations in microorganisms
 Mutations with bacteria and/or yeast have shown mutagenic effects

Carcinogenic effects:

Not considered carcinogenic.

Components	CAS-No.	IARC	ACGIH - Carcinogens	NTP	OSHA HCS - Carcinogens	Australia - Notifiable Carcinogenic Substances	Australia - Prohibited Carcinogenic Substances
Water	7732-18-5	Not listed	Not listed	Not listed	Not listed	Not listed	Not listed
Methyl Orange	547-58-0	Not listed	Not listed	Not listed	Not listed	Not listed	Not listed

ACGIH (American Conference of Governmental Industrial Hygienists)

IARC (International Agency for Research on Cancer)

NTP (National Toxicology Program)

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

Reproductive toxicity	No data is available
Reproductive Effects:	No information available
Developmental Effects:	No information available
Teratogenic Effects:	No information available

Specific Target Organ Toxicity

STOT - single exposure	No information available.
STOT - repeated exposure	No information available.
Target Organs:	No information available.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Ecotoxicity effects:	No data available.
Persistence and degradability:	No information available
Bioaccumulative potential:	No information available.
Mobility:	No information available.

13. DISPOSAL CONSIDERATIONS

Disposal Methods

Waste from residues / unused products: Waste must be disposed of in accordance with Federal, State and Local regulation.

Product code: M-218

Contaminated packaging: Empty containers should be taken for local recycling, recovery or waste disposal

Components	CAS-No.	RCRA - F Series Wastes	RCRA - K Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
Water	7732-18-5	None	None	None	None
Methyl Orange	547-58-0	None	None	None	None

14. TRANSPORT INFORMATION

C

DOT	
UN-No:	Not Regulated
Proper Shipping Name:	No information available
Hazard Class:	No information available
Subsidiary Class	No information available
Packing group:	No information available
Emergency Response Guide	No information available
Number Marine Pollutant	No data available
DOT RQ (lbs):	No information available
Special Provisions	No Information available
Symbol(s):	No information available
Description:	No information available
TDG (Canada)	
UN-No:	Not Regulated
Proper Shipping Name:	No information available
Hazard Class:	No information available
Subsidiary Risk:	No information available
Packing Group: Marine Pollutant	No information available No Information available
	No information available
Description:	
ADR	
UN-No:	Not Regulated
Proper Shipping Name:	No information available
Hazard Class:	No information available
Packing Group:	No information available
Subsidiary Risk:	No information available
IMO / IMDG	
UN-No:	Not Regulated
Proper Shipping Name:	No information available
Hazard Class:	No information available
Subsidiary Risk:	No information available
Packing Group:	No information available
Marine Pollutant	No information available
	Not Dogulated
UN-No: Proper Shipping Name:	Not Regulated No information available
Proper Shipping Name: Hazard Class:	No information available
Subsidiary Risk:	No information available
Packing Group:	No information available

ICAO UN-No: Proper Shipping Name: Hazard Class: Subsidiary Risk: Packing Group:	Not Regulated No information available No information available No information available No information available
ΙΑΤΑ	
UN-No:	Not Regulated
Proper Shipping Name:	No information available
Hazard Class:	No information available
Subsidiary Risk:	No information available
Packing Group:	No information available
ERG Code:	No information available
Special Provisions	No information available

15. REGULATORY INFORMATION

International Inventories

Components	CAS-No.	U.S. TSCA	KOREA KECL	Philippines (PICCS)	Japan ENCS	CHINA	Australia (AICS)	EINECS-No.
Water	7732-18-5	PresentACTIV	Present	Present	Not present	Present	Present	Present
		E	KE-35400					231-791-2
Methyl Orange	547-58-0	PresentACTIV	Present	Present	Present	Present	Present	Present
		E	KE-11174		(5)-4278			208-925-3

U.S. Regulations

California Prop. 65: Safe Drinking Water and Toxic Enforcement Act of 1986.

Chemicals Known to the State of California to Cause Cancer:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

<u>Chemicals Known to the State of California to Cause Reproductive Toxicity:</u> This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Components	CAS-No.	Carcinogen	Developmental Toxicity	Male	Female
		-		Reproductive	Reproductive
				Toxicity	Toxicity:
Water	7732-18-5	Not Listed	Not Listed	Not Listed	Not Listed
Methyl Orange	547-58-0	Not Listed	Not Listed	Not Listed	Not Listed

CERCLA/SARA

Components	CAS-No.	CERCLA - Hazardous Substances and their Reportable Quantities	Section 302 Extremely Hazardous Substances and TPQs	Section 302 Extremely Hazardous Substances and RQs	Section 313 - Chemical Category	Section 313 - Reporting de minimis
Water	7732-18-5	None	None	None	None	None
Methyl Orange	547-58-0	None	None	None	None	None

U.S. TSCA

Components	CAS-No.	TSCA Section 5(a)2 - Chemicals	TSCA 8(d) -Health and Safety
		With Significant New Use Rules	Reporting
		(SNURS)	

Product code: M-218

Water	7732-18-5	Not Applicable	Not Applicable
Methyl Orange	547-58-0	Not Applicable	Not Applicable

Not a dangerous product according to HPR classification criteria.

Canada

WHIMIS 2015 - GHS Classifications

WHMIS 2015 Hazard Classification Information:

Component Water 7732-18-5 (99.9) Methyl Orange 547-58-0 (0.1) WHMIS 2015 Hazard Classification Not a dangerous product according to HPR classification criteria

Not a dangerous product according to HPR classification criteria

Canada Hazardous Products Regulation This product has been classified according to the hazard criteria of the HPR (Hazardous Products Regulation) and the SDS contains all of the information required by the HPR

Components	WHMIS Ingredient Disclosure List -
Methyl Orange	1 %

Inventory

Components	CAS-No.	Canada (DSL)	Canada (NDSL)
Water	7732-18-5	Present	Not Listed
Methyl Orange	547-58-0	Present	Not Listed

Components	CAS-No.	CEPA Schedule I - Toxic Substances
Water	7732-18-5	Not listed
Methyl Orange	547-58-0	Not listed
Components	CAS-No.	CEPA - 2010 Greenhouse Gases Subject
		to Mandatory Reporting
Water	7732-18-5	Not listed
Methyl Orange	547-58-0	Not listed

EU Classification

EU GHS - SV - CLP 1272/2008

Components	CAS-No.	EU GHS - SV - CLP (1272/2008)
Water	7732-18-5	
Methyl Orange	547-58-0	

EU - CLP (1272/2008)

R-phrase(s)

not determined (not applicable)

S -phrase(s)

none

Components	CAS-No.	 Concentration Limits:	Safety Phrases
Water	7732-18-5	No information	
Methyl Orange	547-58-0	No information	

The product is classified in accordance with Annex VI to Directive 67/548/EEC

Product code: M-218

Product name: METHYL ORANGE, 0.1 PERCENT (W/V) AQUEOUS INDICATOR SOLUTION, (U.S.P. TEST SOLUTION)

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Indication of danger: Not dangerous

16. OTHER INFORMATION 12/14/2015 Preparation Date: **Revision Date:** 9/18/2018 Prepared by: Sonia Owen All chemicals may pose unknown hazards and should be used with caution. This **Disclaimer:** Safety Data Sheet (SDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. The physical properties reported in this SDS are obtained from the literature and do not constitute product specifications. Information contained herein does not constitute a warranty, whether expressed or implied, as to the safety, merchantability or fitness of the goods for a particular purpose. Spectrum Chemicals & Laboratory Products, Inc. assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable. Spectrum assumes no responsibility for the completeness or accuracy of the information contained herein.

End of Safety Data Sheet