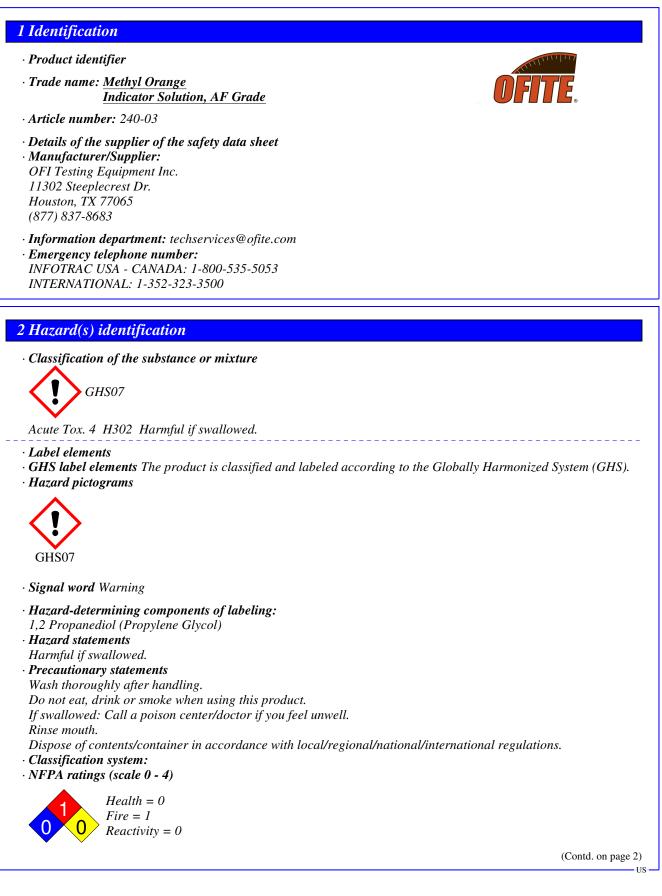
Printing date 01/12/2018

Reviewed on 01/12/2018



Printing date 01/12/2018

Reviewed on 01/12/2018

Trade name: Methyl Orange Indicator Solution, AF Grade

(Contd. of page 1)

· HMIS-ratings (scale 0 - 4)

HEALTH
$$\bigcirc$$
 $Health = 0$ FIRE 1 $Fire = 1$ REACTIVITY \bigcirc $Reactivity = 0$

· Other hazards

· Results of PBT and vPvB assessment

- **PBT:** Not applicable.
- · vPvB: Not applicable.

3 Composition/information on ingredients

· Chemical characterization: Mixtures

· Description: Mixture of the substances listed below with nonhazardous additions.

 Dangerous comp 	ponents:	
CAS: 57-55-6 1,	2 Propanediol (Propylene Glycol)	35.809%
• Table of Nonhaz	ardous Ingredients	
CAS: 547-58-0	sodium 4-(4-dimethylaminophenylazo)benzenesulphonate	0.0988%
CAS: 7732-18-5	Water	64.092%
		I

4 First-aid measures

· Description of first aid measures

• General information:

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

- After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact: Generally the product does not irritate the skin.
- After eye contact: Rinse opened eye for several minutes under running water.
- · After swallowing: Immediately call a doctor.
- · Information for doctor:
- Most important symptoms and effects, both acute and delayed No further relevant information available.
 Indication of any immediate medical attention and special treatment needed No further relevant information available.

5 Fire-fighting measures

- · Extinguishing media
- Suitable extinguishing agents: Use fire fighting measures that suit the environment.
- · Special hazards arising from the substance or mixture No further relevant information available.
- · Advice for firefighters
- · Protective equipment: No special measures required.

6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures Not required.

· Environmental precautions: Do not allow to enter sewers/ surface or ground water.

(Contd. on page 3)

Printing date 01/12/2018

Reviewed on 01/12/2018

Trade name: Methyl Orange

Indicator Solution, AF Grade

		(Contd. of page 2
	naterial for containment and cleaning up:	
Absorb with liq	uid-binding material (sand, diatomite, acid binders, universal binders, sawdust).	
· Reference to of	ther sections	
See Section 7 fe	or information on safe handling.	
See Section 8 fe	or information on personal protection equipment.	
See Section 13	for disposal information.	
· Protective Action	on Criteria for Chemicals	
· PAC-1:		
CAS: 57-55-6	1,2 Propanediol (Propylene Glycol)	30 mg/m ³
CAS: 547-58-0	sodium 4-(4-dimethylaminophenylazo)benzenesulphonate	0.18 mg/m ³
· PAC-2:		
CAS: 57-55-6	1,2 Propanediol (Propylene Glycol)	1,300 mg/m ³
CAS: 547-58-0	sodium 4-(4-dimethylaminophenylazo)benzenesulphonate	2 mg/m ³
· PAC-3:		
CAS: 57-55-6	1,2 Propanediol (Propylene Glycol)	7,900 mg/m ³
CAS: 547-58-0	sodium 4-(4-dimethylaminophenylazo)benzenesulphonate	12 mg/m ³

7 Handling and storage

· Handling:

- · Precautions for safe handling No special precautions are necessary if used correctly.
- Information about protection against explosions and fires: No special measures required.
- · Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: None.
- Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

· Control parameters

· Components with limit values that require monitoring at the workplace:

CAS: 57-55-6 1,2 Propanediol (Propylene Glycol)

TWA Short-term value: 10 mg/m³ weel

WEEL Long-term value: 10 mg/m³

• Additional information: The lists that were valid during the creation were used as basis.

· Exposure controls

- · Personal protective equipment:
- General protective and hygienic measures: Wash hands before breaks and at the end of work.
- · Breathing equipment: Not required.
- · Protection of hands:

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

(Contd. on page 4)

[•] Additional information about design of technical systems: No further data; see item 7.

Printing date 01/12/2018

Reviewed on 01/12/2018

Trade name: Methyl Orange Indicator Solution, AF Grade

(Contd. of page 3)

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation \cdot *Material of gloves*

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

• *Penetration time of glove material The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.*

• *Eye protection: Goggles recommended during refilling.*

· Body protection: Protective work clothing

Information on basic physical and c	hemical properties	
General Information		
Appearance: Form:	Liquid	
Color:	Light orange color	
Odor:	Alcohol-like	
Odor threshold:	Not determined.	
pH-value:	Not determined.	
Change in condition		
Melting point/Melting range:	Undetermined.	
Boiling point/Boiling range:	100 °C (212 °F)	
Flash point:	101 °C (213.8 °F)	
Flammability (solid, gaseous):	Not applicable.	
Ignition temperature:		
Decomposition temperature:	Not determined.	
Auto igniting:	Product is not selfigniting.	
Danger of explosion:	Product does not present an explosion hazard.	
Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	
Vapor pressure at 20 °C (68 °F):	23 hPa (17.3 mm Hg)	
Density at 20 °C (68 °F):	1.01267 g/cm ³ (8.45073 lbs/gal)	
Relative density	Not determined.	
Vapor density	Not determined.	
Evaporation rate	Not determined.	
Solubility in / Miscibility with		
Water:	Not miscible or difficult to mix.	

(Contd. on page 5)

US

Printing date 01/12/2018

Reviewed on 01/12/2018

Trade name: Methyl Orange Indicator Solution, AF Grade

		(Contd. of page
· Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
· Solvent content:		
Water:	64.1 %	
VOC content:	0.00~%	
	0.0 g/l / 0.00 lb/gl	
Solids content:	0.0 %	
• Other information	No further relevant information available.	

10 Stability and reactivity

· Reactivity No further relevant information available.

- · Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- $\cdot \textit{Incompatible materials: } No further relevant information available.$
- · Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

· Information on toxicological effects

• Acute toxicity:

· LD/LC50 values that are relevant for classification:

CAS: 57-55-6 1,2 Propanediol (Propylene Glycol)

Oral LD50 500 mg/kg (ATE)

- · Primary irritant effect:
- on the skin: No irritant effect.
- on the eye: No irritating effect.
- Sensitization: No sensitizing effects known.
- · Additional toxicological information: Harmful

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

· NTP (National Toxicology Program)

None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

12 Ecological information

· Toxicity

• Aquatic toxicity: No further relevant information available.

· Persistence and degradability No further relevant information available.

(Contd. on page 6)

US

Printing date 01/12/2018

Reviewed on 01/12/2018

Trade name: Methyl Orange Indicator Solution, AF Grade

(Contd. of page 5)

- · Behavior in environmental systems:
- $\cdot \textit{Bioaccumulative potential No further relevant information available}.$
- Mobility in soil No further relevant information available.
- \cdot Additional ecological information:
- · General notes:
- Water hazard class 1 (Self-assessment): slightly hazardous for water
- Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system. • Results of PBT and vPvB assessment
- *Results of PB1 and VPVB asse* • *PBT:* Not applicable.
- **PDI**: Not applicable.
- **vPvB:** Not applicable.
- · Other adverse effects No further relevant information available.

13 Disposal considerations

· Waste treatment methods

- *Recommendation: Must not be disposed of together with household garbage. Do not allow product to reach sewage system.*
- · Uncleaned packagings:
- · Recommendation: Disposal must be made according to official regulations.

Transport information		
UN-Number DOT, ADN, IMDG, IATA	Not regulated	
UN proper shipping name DOT, ADN, IMDG, IATA	Not regulated	
Transport hazard class(es)		
DOT, ADN, IMDG, IATA Class	Not regulated	
Packing group DOT, IMDG, IATA	Not regulated	
Environmental hazards: Marine pollutant:	No	
Special precautions for user	Not applicable.	
Transport in bulk according to Annex MARPOL73/78 and the IBC Code	II of Not applicable.	
UN "Model Regulation":	Not regulated	

15 Regulatory information

- \cdot Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Sara
- · Section 355 (extremely hazardous substances):
- None of the ingredients is listed.

(Contd. on page 7)

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Printing date 01/12/2018

Reviewed on 01/12/2018

Trade name: Methyl Orange

Indicator Solution, AF Grade

	ntd. of page
Section 313 (Specific toxic chemical listings):	
None of the ingredients is listed.	
TSCA (Toxic Substances Control Act):	
1,2 Propanediol (Propylene Glycol)	
sodium 4-(4-dimethylaminophenylazo)benzenesulphonate	
Water	
TSCA new (21st Century Act) (Substances not listed) Proposition 65	
Chemicals known to cause cancer:	
None of the ingredients is listed.	
Chemicals known to cause reproductive toxicity for females:	
None of the ingredients is listed.	
Chemicals known to cause reproductive toxicity for males:	
None of the ingredients is listed.	
Chemicals known to cause developmental toxicity:	
None of the ingredients is listed.	
Carcinogenic categories	
EPA (Environmental Protection Agency)	
None of the ingredients is listed.	
TLV (Threshold Limit Value established by ACGIH)	
None of the ingredients is listed.	
NIOSH-Ca (National Institute for Occupational Safety and Health)	
None of the ingredients is listed.	
GHS label elements The product is classified and labeled according to the Globally Harmonized Syste Hazard pictograms	m (GHS)
GHS07	
Signal word Warning	

• *Hazard-determining components of labeling:* 1,2 *Propanediol (Propylene Glycol)*

· Hazard statements

Harmful if swallowed.

• **Precautionary statements** Wash thoroughly after handling.

Do not eat, drink or smoke when using this product.

If swallowed: Call a poison center/doctor if you feel unwell.

Rinse mouth.

Dispose of contents/container in accordance with local/regional/national/international regulations.

• Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

(Contd. on page 8)

US

Printing date 01/12/2018

Reviewed on 01/12/2018

Trade name: Methyl Orange Indicator Solution, AF Grade

(Contd. of page 7)

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	This information is based on our present knowledge. However, this shall not constitute a guarantee for a specific product features and shall not establish a legally valid contractual relationship.
	Department issuing SDS: Environment protection department.
• (Contact:
•]	Date of preparation / last revision
j	Revision 0.1, 05-04-2015: revised to correct emergency contact and information dept contact. STN
	01-12-2018: review SDS for accuracy. STN
	Creation date for SDS 07-21-2014. LS
	01/12/2018 / -
	Abbreviations and acronyms:
	ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International States and States
	Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods
	DOT: US Department of Transportation
	IATA: International Air Transport Association
	ACGIH: American Conference of Governmental Industrial Hygienists
	EINECS: European Inventory of Existing Commercial Chemical Substances
1	ELINCS: European List of Notified Chemical Substances
(CAS: Chemical Abstracts Service (division of the American Chemical Society)
	NFPA: National Fire Protection Association (USA)
	HMIS: Hazardous Materials Identification System (USA)
	VOC: Volatile Organic Compounds (USA, EU)
	LC50: Lethal concentration, 50 percent
	LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic
	PB1: Persistent, Bioaccumulative and Toxic PPB: very Persistent and very Bioaccumulative
	VIOSH: National Institute for Occupational Safety
	OSHA: Occupational Safety & Health
	TLV: Threshold Limit Value
	PEL: Permissible Exposure Limit
	REL: Recommended Exposure Limit
	Acute Tox. 4: Acute toxicity – Category 4