



MATERIAL SAFETY DATA SHEET

Version Number:- 02

PRODUCT NAME: METHYL ORANGE INDICATOR SOLUTION

CAS Number: NA

1. IDENTIFICATION:

Product Code : 91789

Company Name : ADVENT CHEMBIO PRIVATE LIMITED

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2. HAZARDS IDENTIFICATION:

Hazard classification : Not a hazardous substance or mixture according to Regulation

Physical hazards : Not a hazardous substance or mixture according to Regulation

Labels elements : No hazard pictogram, no signal word, no hazard statement, no precautionary statement required.

Signal word : Not a hazardous substance or mixture according to Regulation

Hazard statement : Not a hazardous substance or mixture according to Regulation

Precautionary statement

Prevention : Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response : IF ON SKIN (or hair): Rinse skin with water.
IF IN EYES: Rinse with water minutes.

Storage : Store in a dry & well-ventilated place. Keep container tightly closed. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Disposal : Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

Other hazards which do not result in GHS classification : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher. Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.
Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.



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3. COMPOSITION/ INFORMATION ON INGREDIENTS:

Ingredient	CAS Number	Hazardous
Methyl Orange Indicator Solution	NA	No

4. FIRST AID MEASURES:

- General information** : Get medical advice/attention if you feel unwell. Show this safety data sheet to the doctor in attendance.
- Ingestion** : Rinse mouth.
- Inhalation** : Move to fresh air.
- Skin contact** : Flush with water.
- Eye contact** : Flush with water.
- Most important symptoms/effects, acute and delayed** : The most important known symptoms and effects are described in the labelling.
- Indication of immediate medical attention and special treatment needed** : No data available.

5. FIRE FIGHTING MEASURES:

General information

Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media : For this substance/mixture no limitations of extinguishing agents are given.

Specific hazards arising from the chemical : Nature of decomposition products not known.
Not combustible. Ambient fire may liberate hazardous vapours.

Special protective equipment and precautions for firefighters

Special firefighting procedures : Fight fire from a protected location. Move containers from fire area if you can do so without risk.

Special protective equipment for fire-fighters : Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

6. ACCIDENTAL RELEASE MEASURES:

- Personal precautions, protective equipment and emergency procedures** : ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area).
Avoid breathing mists or vapors. Keep upwind. Keep unauthorized personnel away.

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Methods and material for containment and cleaning up	:	Use only non-sparking tools. Take precautionary measures against static discharges. Stop leak if possible without any risk.
Notification Procedures	:	Prevent entry into waterways, sewer, basements or confined areas. Inform authorities if large amounts are involved.
Environmental precautions	:	Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

7. HANDLING AND STORAGE:

Precautions for safe handling	:	Do not handle until all safety precautions have been read and understood. Use only non-sparking tools. Wear protective gloves/protective clothing/eye protection/ face protection. Avoid contact with eyes, skin, and clothing. Do not breathe the mist or vapor. Use only with adequate ventilation. Wash hands thoroughly after handling.
Conditions for safe storage, including any incompatibilities	:	Keep away from food, drink and animal feeding stuffs. Keep container tightly closed in a dry, well-ventilated place. Ground container and transfer equipment to eliminate static electric sparks.

8. EXPOSURE CONTROLS PERSONAL PROTECTION:

Appropriate engineering controls :

No data available

Individual protection measures, such as personal protective equipment

General information	:	Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. An eye wash and safety shower must be available in the immediate work area. Use explosion-proof ventilation equipment.
Eye/face protection	:	Wear safety glasses with side shields (or goggles).
Hand protection	:	Chemical resistant gloves.
Other	:	Wear suitable protective clothing.
Respiratory protection	:	Not required; except in case of aerosol formation.
Hygiene measures	:	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Provide eyewash station and safety shower. Avoid contact with eyes, skin, and clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES:

Appearance	:	Bright orange coloured clear solution.
Odor	:	Odorless
Solubility	:	Soluble in water.



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Formula	:	NA
Molecular Weight	:	NA
Density	:	No data available
pH	:	2.9 - 4.6
% Volatiles by volume @ 21C (70F)	:	No data available
Boiling Point	:	No data available
Melting Point	:	No data available
Flash Point	:	No data available
Vapor Density (Air=1)	:	No data available
Vapor Pressure (mm Hg)	:	No data available
Evaporation Rate (BuAc=1)	:	No data available

10. STABILITY AND REACTIVITY:

Reactivity	:	No data available
Chemical stability	:	Material is stable under ambient conditions..
Possibility of hazardous reactions	:	Violent reactions possible with: The generally known reaction partners of water.
Conditions to avoid	:	No data available
Incompatible materials	:	No data available
Hazardous decomposition products	:	In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION:**Information on toxicological effects****Acute toxicity (list all possible routes of exposure)**

Oral Product	:	Acute toxicity estimate Oral - > 2.000 mg/kg
Dermal Product	:	No data available
Inhalation Product	:	No data available
Repeated dose toxicity Product	:	No data available.
Skin corrosion/irritation Product	:	No data available
Serious eye damage/eye irritation Product	:	No data available.



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Respiratory or skin sensitization Product : No data available
Carcinogenicity Product : No data available.
Germ cell mutagenicity : No data available.
Reproductive toxicity Product : No data available.
Specific target organ toxicity - single exposure Product : No data available.
Specific target organ toxicity - repeated exposure Product : No data available.
Aspiration hazard Product : No data available.
Other effects : No data available.

12. ECOLOGICAL INFORMATION:

Ecotoxicity

Acute hazards to the aquatic environment

Fish Product : No data available.

Toxicity to daphnia and other aquatic invertebrates : No data available.

Chronic hazards to the aquatic environment

Toxicity to daphnia and other aquatic invertebrates : No data available
Persistence and degradability

Biodegradation Product : No data available

BOD/COD ratio Product : No data available.

Bioaccumulative potential

Bioconcentration factor (BCF) Product : No data available

Partition coefficient n-octanol / water (log Kow) Product : No data available.

Mobility in soil : No data available.

Other adverse effects : No data available.



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13. DISPOSAL CONSIDERATION:

- Disposal instructions** : Discharge, treatment, or disposal may be subject to national, state, or local laws. Disposal recommendations are based on uncontaminated material.
- Contaminated packaging** : Since emptied containers retain product residue, follow label warnings even after container is emptied.

14. TRANSPORT INFORMATION:

	UN No.	UN proper shipping name	Hazard Class(es)	Packaging group	Marine Pollutant
ADR/RID	NA	Methyl Orange Indicator Solution		Not dangerous goods	
IMDG	NA	Methyl Orange Indicator Solution		Not dangerous goods	
IATA	NA	Methyl Orange Indicator Solution		Not dangerous goods	

15. REGULATORY INFORMATION:

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.
Safety, health and environmental regulations/legislation specific for the substance or mixture
No Data Available.

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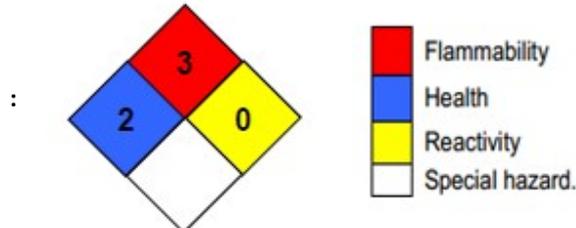
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16. OTHER INFORMATION:

NFPA Hazard ID



Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe

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