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| Section I. Product Identification and Uses | | | |
|--|--|----------------|-----------------|
| Product name | METHYL ORANGE, 0.1% AQUEOUS SOLUTION | CI# | Not available. |
| Chemical formula | Not applicable. | CAS# | Not applicable. |
| Synonyms | R-3380, 59673 | Code | R-3380 |
| Supplier | Anachemia Canada. 255 Norman. Lachine (Montreal), Que H8R 1A3 | Formula weight | Not applicable. |
| | | Supersedes | |
| Material uses | For laboratory use only. | | |

| Name | CAS # | % | TLV |
|------------------------------|-----------------------|----------------|--|
| 1) METHYL ORANGE 2) WATER | 547-58-0 7732-18-5 | 0.1 Balance | Not established by ACGIH Not established by ACGIH |

| | |
|---|---|
| Toxicity values of the hazardous ingredients | <p>METHYL ORANGE A.C.S:</p> <p>ORAL (LD50): Acute: 60 mg/kg (Rat).</p> <p>INTRAPERITONEAL (LD50): Acute: 101 mg/kg (Mouse).</p> |
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Section III. Physical Data

METHYL ORANGE, 0.1% AQUEOUS SOLUTION page 2/4

| | |
|--------------------------------------|--------------------------|
| Physical state and appearance / Odor | Odorless, orange liquid. |
| pH (1% soln/water) | Not available. |
| Odor threshold | Not available. |
| Percent volatile | >99% (V/V) |
| Freezing point | Not available. |
| Boiling point | Not available. |
| Specific gravity | Not available. |
| Vapor density | Not available. |
| Vapor pressure | Not available. |
| Water/oil dist. coeff. | Not available. |
| Evaporation rate | Not available. |
| Solubility | Miscible in water. |

Section IV. Fire and Explosion Data

| | |
|-------------------------------|--|
| Flash point | Not applicable. |
| Flammable limits | Not available. |
| Auto-ignition temperature | Not available. |
| Fire degradation products | Oxides of carbon, nitrogen, sodium, and sulfur. |
| Fire extinguishing procedures | Use extinguishing media suitable for surrounding materials. Wear adequate personal protection to prevent contact with material or its combustion products. Self contained breathing apparatus with a full facepiece operated in a pressure demand or other positive pressure mode. |
| Fire and Explosion Hazards | The sensitivity to static discharge is not available. The sensitivity to impact is not available. Emits toxic fumes under fire conditions. |

Section V. Toxicological Properties

| | |
|---------------------------|--|
| Routes of entry | Inhalation and ingestion. |
| Effects of Acute Exposure | May be harmful if swallowed, inhaled, or absorbed through skin. |
| Eye | May cause irritation. May stain skin and eyes. |
| Skin | May cause irritation. May stain. May be absorbed through the skin. |
| Inhalation | May be harmful if inhaled. |
| Ingestion | May be harmful if swallowed. Ingestion of large amounts may cause death. |

Section V. Toxicological Properties

METHYL ORANGE, 0.1% AQUEOUS
SOLUTION

page 3/4

Effects of Chronic Overexposure

Carcinogenic effects: Not available. Mutagenic effects: Not available. Teratogenic effects: Not available. Toxicity of the product to the reproductive system: Not available. To the best of our knowledge, the chemical, physical, and toxicity of this substance has not been fully investigated.

Section VI. First Aid Measures

Eye contact

Immediately flush eyes with copious quantities of water for at least 15 minutes holding lids apart to ensure flushing of the entire surface. Call a physician.

Skin contact

Immediately flush skin with plenty of water and soap for at least 15 minutes while removing contaminated clothing and shoes. Call a physician. Wash contaminated clothing before reusing.

Inhalation

Remove patient to fresh air. Administer approved oxygen supply if breathing is difficult. Administer artificial respiration or CPR if breathing has ceased. Call a physician.

Ingestion

If conscious, wash out mouth with water. Have conscious person drink several glasses of water to dilute. Induce vomiting. Seek immediate medical attention. Never give anything by mouth to an unconscious or convulsing person.

Section VII. Reactivity Data

Stability

Stable. Conditions to avoid: High temperatures, sparks, open flames and all other sources of ignition, contamination.

Hazardous decomp. products

Not available.

Incompatibility

Oxidizing agents. Water may react with water reactive materials (sodium, potassium, etc...).

Reaction Products

Not available. Hazardous polymerization will not occur.

Section VIII. Preventive Measures

METHYL ORANGE, 0.1% AQUEOUS SOLUTION

page 4/4

Protective Clothing in case of spill and leak

Wear self-contained breathing apparatus, rubber boots and heavy rubber gloves.

Spill and leak

Evacuate the area. Absorb on sand or vermiculite and place in a closed container for disposal. Ventilate area and wash spill site after material pick up is complete. DO NOT empty into drains. DO NOT touch damaged container or spilled material.

Waste disposal

According to all applicable regulations. May be harmful to aquatic life. Can be dangerous if allowed to enter drinking water intakes. Do not contaminate domestic or irrigation water supplies, lakes, streams, ponds, or rivers.

Storage and Handling

Store in a cool place away from heated areas, sparks, and flame. Store in a well ventilated area. Store away from incompatible materials. Do not add any other material to the container. Do not wash down the drain. Do not breathe gas/fumes/vapor/spray. In case of insufficient ventilation, wear suitable respiratory equipment. Keep container tightly closed and dry. Manipulate under an adequate fume hood. Empty containers may contain a hazardous residue. Handle and open container with care. Take off immediately all contaminated clothing. This product must be manipulated by qualified personnel. Do not get in eyes, on skin, or on clothing. Wash well after use. In accordance with good storage and handling practices. Do not allow smoking and food consumption while handling. In case of accident or if you feel unwell, seek medical advice immediately (show the label when possible.).

Section IX. Protective Measures

Protective clothing

Splash goggles. Impervious rubber gloves, coveralls, and/or other resistant protective clothing. Sufficient to protect skin. A OSHA/MSHA jointly approved respirator is advised in the absence of proper environmental controls. For emergency situations, a self-contained respirator is recommended (NIOSH-approved). Do not wear contact lenses. Make eye bath and emergency shower available. Ensure that eyewash station and safety shower is proximal to the work-station location.

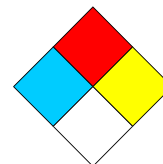
Engineering controls

Use in a chemical fume hood. Do not use in unventilated spaces.

Section X. Other Information

Special Precautions or comments

Harmful liquid! Do not breathe vapor. Avoid all contact with the product. Avoid prolonged or repeated exposure. Use in a chemical fume hood. To the best of our knowledge, the chemical, physical and toxicity of this substance has not been fully investigated. Handle and open container with care. Container should be opened only by a technically qualified person.
RTECS NO: DB6327000 (Methyl orange).



NFPA

Prepared by MSDS Department/Département de F.S..

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