



COLUMBUS CHEMICAL INDUSTRIES INC.

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Material Safety Data Sheet

May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910 1200. Standard must be consulted for specific requirements

U.S. Department of Labor

Occupational Safety and Health Administration
(Non-Mandatory Form)
Form Approved
OMB No. 1218-0072

IDENTITY (as Used on Label and List)

Methyl Orange Indicator

Note: Blank spaces are not permitted. If any item is not applicable or no information is available, the space must be marked to indicate that.

Section I

Manufacturers /Distributor Address Number Street City State and Zip Code

Columbus Chemical Industries, Inc.

N4335 Temkin Road

Columbus, WI 53925

Emergency Telephone Number

Chemtrec 1-800-424-9300

Telephone Number for Information

1-920-623-2140

Date Prepared

12-19-2006

Signature of Preparer (optional)

Section II - Hazardous Ingredients/Identity Information

Hazardous Components

(Specific Chemical Identity, Common Name(s))

CAS #

OSHA PEL

ACGIH TLV

Other Limits

Recommended

% (optional)

4-[[4-(Dimthylamino)-phenyl]azo]-

547-58-0

Not established

Not established

Not established

<1%

benzenesulfonic acid, sodium salt

*Synonyms: Methyl orange, sodium salt

Section III - Physical/Chemical Characteristics

Boiling Point

Not available

Specific Gravity (H2O = 1)

1.0

Vapor Pressure (mm Hg)

Not available

Melting Point

Not available

Vapor Density (AIR = 1)

Not available

Evaporation Rate (Butyl Acetate = 1)

Not available

Solubility in Water

Complete

Appearance and Odor

Translucent red-orange liquid.

Section IV Fire and Explosion Hazard Data

Flash Point (Method Used)

Nonflammable

Flammable Limits

LEL

UEL

Not applicable

Not applicable

Extinguishing Media

Use any means suitable for extinguishing surrounding fire.

Special Fire Fighting Procedures

In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

Unusual Fire and Explosion Hazards

May emit toxic fumes under fire conditions.

Section V Reactivity Data

Stability	Unstable		Conditions to Avoid	Contact with strong oxidizers, light, heat, incompatibles.
	Stable	X		

Incompatibility Materials to Avoid

Strong oxidizers, lithium and bromide trifluoride.

Hazardous Decomposition or Byproducts

May emit toxic chlorides and oxides of carbon, nitrogen, sulfur, sodium when heated to decomposition.

Hazardous Polymerization**Conditions to Avoid**

	May Occur		Not available.
	Will Not Occur	X	

Section VI Health Hazard Data

Routes of Entry	Inhalation ?	Skin ?	Ingestion ?
	Yes	Yes	Yes

Health Hazards (Acute and Chronic)

INHALATION: Irritation to mucous membranes. INGESTION: May cause gastrointestinal discomfort. EYE

CONTACT: May cause eye irritation. SKIN: May cause skin irritation.

Carcinogenicity	NTP	IARC Monographs	OSHA REGULATED?
	Not Listed	Not Listed	Not Listed

Signs and Symptoms of Exposure.

Inflammation and swelling of the larynx and bronchi, chemical pneumonitis, pulmonary edema. Burning sensation stomach pain, coughing, wheezing, laryngitis, shortness of breath, headache, nausea, vomiting, redness, itchiness.

Medical Conditions Generally Aggravated by Exposure

No information found.

Emergency and First Aid Procedures INGESTION: Wash out mouth with water provided person is conscious. Call a immediately. INHALATION: Remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen. SKIN: Flush with water for at least 15 minutes. Remove contaminated clothing; call a physician. EYES: Flush with large amounts of water for at least 15 minutes, lifting lower and upper eyelids. Call a physician.

Section VII Precautions for Safe Handling and Use

Steps to be Taken in Case Material is Released or Spilled Evacuate area. Wear NIOSH/MSHA-approved respirator, chemical-resistant goggles, rubber boots, apron and heavy rubber gloves. Contain spill with dikes, sand or noncombustible absorbent material. Sweep up and place in a bag and hold for waste disposal. Ventilate area and wash spill site after material pickup is complete.

Waste Disposal Method Dispose of product in accordance with all Federal, State, and Local regulations.

Precautions to be Taken in Handling and Storing Keep in tightly closed plainly-labelled containers, stored in a cool, dry, ventilated area. Protect against physical damage and light. Maintain adequate ventilation. Do not breathe mist.

Other Precautions Containers, even when empty, will retain residue and vapors which can ignite with explosive force. Always obey hazard warnings and handle empty containers as if they were full.

Section VII Control Measures

Respiratory Protection (Specify Type) NIOSH/MSHA-approved dust/mist respirator or self-contained breathing apparatus.

Ventilation	Local Exhaust	Recommended.	Special	Eyewash nearby.
	Mechanical (General)	Recommended.	Other	Safety shower nearby.

Protective Gloves Appropriate chemical resistant gloves **Eye Protection** Chemical safety goggles.

Other Protective Clothing or Equipment Lab coat or apron and rubber boots.

Work /Hygienic Practices Contact lenses should not be worn when working with this material. Maintain eyewash and quick-drench facilities in work area. Avoid all unnecessary exposure to the chemical substance and ensure prompt removal from skin, eyes and clothing. Avoid breathing mist.

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