

# Methyl Orange

## Material Safety Data Sheet

### Section 1. Product and Company Identification

**Product Name** Methyl Orange

**Product Code** 272

**Manufacturer** EMD Chemicals Inc.

**Effective Date** 3/3/2003

P.O. Box 70

480 Democrat Road

Gibbstown, NJ 08027

Prior to January 1, 2003 EMD Chemicals Inc. was

EM Industries, Inc. or EM Science, Division of

EM Industries, Inc.

#### For More Information Call

856-423-6300 Technical Service

Monday-Friday: 8:00 AM - 5:00 PM

#### In Case of Emergency Call

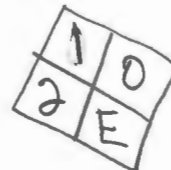
800-424-9300 CHEMTREC

(USA)

613-996-6666 CANUTEC

(Canada)

24 Hours/Day: 7 Days/Week



**Synonym** ACID ORANGE 52; DIAZOBEN

**Material Uses** Analytical reagent.

**Chemical Family** Azo dye.

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### Section 2. Composition and Information on Ingredients

**Component**

**CAS #**

**% by Weight**

C.I. ACID ORANGE 52

547-58-0 100

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### Section 3. Hazards Identification

**Physical State and Appearance** Solid. (Crystalline granules solid.)

**Emergency Overview**

WARNING!

MAY BE FATAL IF SWALLOWED.

MAY CAUSE RESPIRATORY TRACT, EYE AND SKIN IRRITATION.

**Routes of Entry** Inhalation. Ingestion.

**Potential Acute Health Effects**

**Eyes** May be hazardous in case of eye contact (irritant).

**Skin** May be hazardous in case of skin contact (irritant). Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.

**Inhalation** May be hazardous in case of inhalation (lung irritant).

**Ingestion** Extremely hazardous in case of ingestion. May be fatal if swallowed.

**Potential Chronic Health Effects**

**Carcinogenic Effects** This material is not known to cause cancer in animals or humans.

**Additional information**

See Toxicological Information (section 11)

**Medical Conditions Aggravated by Overexposure:** Repeated exposure to a highly toxic material may produce general deterioration of health by an accumulation in one or many human organs.

## Methyl Orange

### Section 4. First Aid Measures

<b>Eye Contact</b>	Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention.
<b>Skin Contact</b>	In case of contact, immediately flush skin with plenty of water. Cover the irritated skin with an emollient. Remove contaminated clothing and shoes. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.
<b>Inhalation</b>	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
<b>Ingestion</b>	If swallowed, do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.

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### Section 5. Fire Fighting Measures

<b>Flammability of the Product</b>	Non-flammable.
<b>Auto-ignition Temperature</b>	Not applicable.
<b>Flash Points</b>	Not applicable.
<b>Flammable Limits</b>	Not applicable.
<b>Products of Combustion</b>	Not available.
<b>Fire Hazards in Presence of Various Substances</b>	Not applicable.
<b>Explosion Hazards in Presence of Various Substances</b>	Risks of explosion of the product in presence of static discharge: No. Risks of explosion of the product in presence of mechanical impact: No.
<b>Fire Fighting Media and Instructions</b>	Not applicable.
<b>Protective Clothing (Fire)</b>	Not applicable.
<b>Special Remarks on Fire Hazards</b>	Not available.
<b>Special Remarks on Explosion Hazards</b>	Not available.

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### Section 6. Accidental Release Measures

<b>Small Spill and Leak</b>	Use appropriate tools to put the spilled solid in a convenient waste disposal container.
<b>Large Spill and Leak</b>	Stop leak if without risk. Do not get water inside container. Do not touch spilled material. Use water spray to reduce vapors. Prevent entry into sewers, basements or confined areas; dike if needed. Call for assistance on disposal.
<b>Spill Kit Information</b>	No specific spill kit required for this product.

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## Methyl Orange

### Section 7. Handling and Storage

<b>Handling</b>	Avoid contact with eyes, skin and clothing. Do not ingest. Avoid breathing dust. Keep container closed.
<b>Storage</b>	Keep container in a cool, well-ventilated area.

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### Section 8. Exposure Controls/Personal Protection

<b>Engineering Controls</b>	Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.
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#### Personal Protection

**Eyes** Splash goggles.

**Body** Lab coat.

**Respiratory** Dust respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate.

**Hands** Gloves.

**Feet** Not applicable.

#### Protective Clothing

##### (Pictograms)

**Personal Protection in Case of a Large Spill** Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self-contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

<b>Product Name</b>	<b>Exposure Limits</b>
C.I. ACID ORANGE 52	Not available.

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### Section 9. Physical and Chemical Properties

<b>Odor</b>	Not available.
<b>Color</b>	Yellowish-brown.
<b>Physical State and Appearance</b>	Solid. (Crystalline granules solid.)
<b>Molecular Weight</b>	327.36 g/mole
<b>Molecular Formula</b>	C14-H14-N3-O3-S.Na
<b>pH</b>	Not available.
<b>Boiling/Condensation Point</b>	Not available.
<b>Melting/Freezing Point</b>	Not available.
<b>Specific Gravity</b>	Not available.
<b>Vapor Pressure</b>	Not available.
<b>Vapor Density</b>	Not available.
<b>Odor Threshold</b>	Not available.
<b>Evaporation Rate</b>	Not available.
<b>LogKow</b>	Not available.
<b>Solubility</b>	Partially soluble in water.

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### Section 10. Stability and Reactivity

<b>Stability and Reactivity</b>	The product is stable.
<b>Conditions of</b>	Not available.

## Methyl Orange

### Instability

**Incompatibility with** Reactive with oxidizing agents.

### Various Substances

**Rem/Incompatibility** Not available.

**Hazardous** Not available.

### Decomposition

#### Products

**Hazardous** Will not occur.

#### Polymerization

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### Section 11. Toxicological Information

#### RTECS Number:

Methyl Orange, GR DB6327000

**Toxicity** Acute oral toxicity (LD50): 60 mg/kg [Rat].

**Chronic Effects on** Not available.

#### Humans

**Acute Effects on** May be hazardous in case of eye contact (irritant). May be hazardous in case of skin contact (irritant). Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering. May be hazardous in case of inhalation (lung irritant). Extremely hazardous in case of ingestion. May be fatal if swallowed.

**Synergetic Products** Not available.

#### (Toxicologically)

**Irritancy** Draize Test: Not available.

**Sensitization** Not available.

**Carcinogenic** This material is not known to cause cancer in animals or humans.

#### Effects

**Toxicity to** Not available.

#### Reproductive

#### System

**Teratogenic Effects** Not available.

**Mutagenic Effects** Tests on laboratory animals for mutagenic effects are cited in Registry of Toxic Effects of Chemical Substances (RTECS).

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### Section 12. Ecological Information

**Ecotoxicity** Not available.

**BOD5 and COD** Not available.

**Toxicity of the** The products of degradation are less toxic than the product itself.

#### Products of

#### Biodegradation

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### Section 13. Disposal Considerations

**EPA Waste** Not available.

#### Number

**Treatment** Material does not have an EPA Waste Number and is not a listed waste, however consultation with a permitted waste disposal site (TSD) should be accomplished. Always contact a permitted waste disposal (TSD) to assure compliance with all current local, state, and Federal Regulations.

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### Section 14. Transport Information

## Methyl Orange

<b>DOT Classification</b>	Proper Shipping Name: TOXIC SOLID, ORGANIC, N.O.S. (METHYL ORANGE) Hazard Class: 6.1 UN number: UN2811 Packing Group: III RQ: Not applicable.
<b>TDG Classification</b>	Not available.
<b>IMO/IMDG Classification</b>	Not available.
<b>ICAO/IATA Classification</b>	Not available.

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### Section 15. Regulatory Information

**U.S. Federal Regulations** TSCA 8(b) inventory: C.I. ACID ORANGE 52

SARA 302/304/311/312 extremely hazardous substances: No products were found.  
SARA 302/304 emergency planning and notification: No products were found.  
SARA 302/304/311/312 hazardous chemicals: C.I. ACID ORANGE 52  
SARA 311/312 MSDS distribution – chemical inventory – hazard identification: C.I. ACID ORANGE 52: Immediate (Acute) Health Hazard, Delayed (Chronic) Health Hazard  
SARA 313 toxic chemical notification and release reporting: No products were found.  
Clean Water Act (CWA) 307: No products were found.  
Clean Water Act (CWA) 311: No products were found.  
Clean air act (CAA) 112 accidental release prevention: No products were found.  
Clean air act (CAA) 112 regulated flammable substances: No products were found.  
Clean air act (CAA) 112 regulated toxic substances: No products were found.

**WHMIS (Canada)** Class D-1B: Material causing immediate and serious toxic effects (TOXIC).  
CEPA DSL: C.I. ACID ORANGE 52  
This product has been classified in accordance with the hazard criteria of the Controlled Product Regulations and the MSDS contains all required information.

### International Regulations

**EINECS** C.I. ACID ORANGE 52 208-925-3  
**DSCL (EEC)** R25- Toxic if swallowed.  
R36/37/38- Irritating to eyes, respiratory system and skin.  
**International Lists** Australia (NICNAS): C.I. ACID ORANGE 52  
Japan (MITI): C.I. ACID ORANGE 52  
Korea (TCCL): C.I. ACID ORANGE 52

## Methyl Orange

Philippines (RA6969): C.I. ACID ORANGE 52

China: No products were found.

**State Regulations** No products were found.

California prop. 65: No products were found.

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### + Section 16. Other Information

<b>National Fire Protection Association (U.S.A.)</b>	<b>0</b>	<b>Fire</b>
	<b>20</b>	<b>Hazard</b>
	<b>Health</b>	<b>Reactivity</b>
		<b>Specific Hazard</b>

**Changed Since Last +  
Revision**

#### **Notice to Reader**

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