

**Section 1 Chemical Product and Company Identification**



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**CHEMTREC 24 Hour Emergency**  
Phone Number (800) 424-9300  
For laboratory use only.  
Not for drug, food or household use.

**Product** METHYL ORANGE  
**Synonyms** C.I. No. 13025 / C.I. Acid Orange 52

**Section 2 Hazards Identification**

**Signal word:** DANGER  
**Pictograms:** GHS06  
**Target organs:** Skin, Eyes



**GHS Classification:**  
Acute toxicity, oral (Category 3)

**GHS Label information: Hazard statement:**  
H301: Toxic if swallowed.

**Precautionary statement:**

**P264:** Wash hands thoroughly after handling.  
**P270:** Do not eat, drink or smoke when using this product.  
**P301+P310:** IF SWALLOWED: Immediately call a POISON CENTER or doctor.  
**P330:** Rinse mouth.  
**P405:** Store locked up.  
**P501:** Dispose of contents/container to a licensed chemical disposal agency in accordance with local/regional/national regulations.

Ca Prop 65: This product does not contain any chemicals known to the State of California to cause cancer or reproductive toxicity.

**Section 3 Composition / Information on Ingredients**

Chemical Name	CAS #	%	EINECS
Methyl orange, pH indicator	547-58-0	100%	208-925-3

**Section 4 First Aid Measures**

**INGESTION:** MAY BE HARMFUL IF SWALLOWED. Call physician or Poison Control Center immediately. Induce vomiting only if advised by appropriate medical personnel. Never give anything by mouth to an unconscious person.

**INHALATION:** MAY BE HARMFUL IF INHALED. MAY CAUSE RESPIRATORY TRACT IRRITATION. Remove to fresh air. If not breathing, give artificial respiration. If difficult, give oxygen. Get medical attention.

**EYE CONTACT:** MAY CAUSE EYE IRRITATION. Check for and remove contact lenses. Flush thoroughly with water for at least 15 minutes, lifting upper and lower eye occasionally. Get immediate medical attention.

**SKIN ABSORPTION:** MAY CAUSE SKIN IRRITATION. Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention.

**Section 5 Fire Fighting Measures**

**Suitable Extinguishing Media:** Carbon dioxide, dry chemical, dry sand, alcohol foam.

**Protective Actions for Fire-fighters:** In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective gear. Use water spray fire-exposed containers cool.

**Specific Hazards:** During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

**Section 6 Accidental Release Measures**

**Personal Precautions:** Evacuate personnel to safe area. Use proper personal protective equipment as indicated in Section 8. Provide adequate ventilation.

**Environmental Precautions:** Avoid runoff into storm sewers and ditches which lead to waterways.

**Containment and Cleanup:** Recover for use if not contaminated. Sweep or vacuum up and place in a suitable container for proper disposal. Wash spill area with water.

**Section 7 Handling & Storage**

**Precautions for Safe Handling:** Read label on container before using. Do not wear contact lenses when working with chemicals. Keep out of reach of children. Avoid contact with eyes, skin and clothing. Do not inhale dusts. Use with adequate ventilation. Avoid ingestion. Wash thoroughly after handling. Remove and wash clothing before reuse.

**Conditions for Safe Storage:** Store in a cool, dry, well-ventilated area away from incompatible substances. Protect from light.

**Section 8 Exposure Controls / Personal Protection**

Exposure Limits:	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)
	Particles not otherwise classified	None established	TWA: 5 mg/m <sup>3</sup> respirable fraction	None established

**Engineering controls:** Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower and fire extinguishing material. Personnel should wear safety glasses, goggles, or faceshield, lab coat or apron, appropriate protective gloves. Use adequate ventilation to keep airborne concentrations low.

**Respiratory protection:** None should be needed in normal laboratory handling at room temperatures. If dusty conditions prevail, work in fume hood or wear a NIOSH/MSHA-approved respirator.

**Section 9 Physical & Chemical Properties**

Appearance: Solid. Orange-brown crystalline powder	Evaporation rate ( = 1): Data not available	Partition coefficient: Data not available
Odor: No odor.	Flammability (solid/gas): Data not available.	Auto-ignition temperature: Data not available
Odor threshold: Data not available.	Explosion limits: Lower / Upper: Data not available	Decomposition temperature: 285°C (544°F)
pH: Data not available.	Vapor pressure (mm Hg): Data not available	Viscosity: Data not available.
Melting / Freezing point: >300°C (572°F)	Vapor density (Air = 1): 11.3	Molecular formula: C <sub>14</sub> H <sub>14</sub> N <sub>3</sub> NaO <sub>3</sub> S
Boiling point: Data not available	Relative density (Specific gravity): 0.35 - 0.39	Molecular weight: 327.34
Flash point: Data not available	Solubility(ies): 0.2 g/100 ml water @ 20°C	

**Section 10 Stability & Reactivity**

**Chemical stability:** Stable

**Conditions to avoid:** Excessive temperatures. **Hazardous polymerization:** Will not occur. Protect from light.

**Incompatible materials:** Strong oxidizers.

**Hazardous decomposition products:** Carbon oxides, nitrogen oxides and sulfur oxides.

**Section 11 Toxicological Information**

**Acute toxicity:** Oral-rat LD50: 60 mg/kg

**Skin corrosion/irritation:** Data not available

**Serious eye damage/irritation:** Data not available

**Respiratory or skin sensitization:** Data not available

**Germ cell mutagenicity:** Data not available

**Carcinogenicity:** Data not available

**NTP:** No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

**ARC:** No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by IARC.

**OSHA:** No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**Reproductive toxicity:** Data not available

**TOT-single exposure:** Data not available

**TOT-repeated exposure:** Data not available

**Aspiration hazard:** Data not available

**Potential health effects:**

- Inhalation: May be harmful if inhaled.
- Ingestion: May be harmful if swallowed.
- Eye: May cause irritation.
- Skin: May cause irritation.

**Signs and symptoms of exposure:** To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated. Exercise appropriate procedures to minimize potential hazards.

**Additional information:** RTECS #: DB6327000

*Specific data is*

**Section 12 Ecological Information**

**Toxicity to fish:** No data available

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

**Toxicity to algae:** No data available

**Persistence and degradability:** No data available

**Stability in soil:** No data available

**Other adverse effects:** An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

**Bioaccumulative potential:** No data available

**PBT and vPvB assessment:** No data available

**Section 13 Disposal Considerations**

Disposal guidelines are intended for the disposal of catalog-size quantities only. Federal regulations may apply to empty container. State and/or local regulations may be different. Dispose of in accordance with all local, state and federal regulations or contract with a licensed chemical disposal agency.

**Section 14 Transport Information (US DOT / CANADA TDG)**

**UN number:** UN2811

**Shipping name:** Toxic solids, organic, n.o.s., (Methyl orange)

**hazard class:** 6.1

**Packing group:** III

**Reportable Quantity:** No

**Options:** Limited quantity equal to or less than 5 Kg

**2012 ERG Guide #:** Not applicable

**Marine pollutant:** No

**Section 15 Regulatory Information**

Chemical is considered to be listed if the CAS number for the anhydrous form is on the Inventory list.

Component	TSCA	CERCLA (RQ)	RCRA code	DSL	NDSL
Methyl orange	Listed	Not listed	Not listed	Listed	Not listed

**Section 16 Other Information**

Information contained herein is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. NTP: National Toxicology Program, International Agency for Research on Cancer, OSHA: Occupational Safety and Health Administration, STOT: Specific Target Organ Toxicity, SE: Single Exposure, RE: Repeated Exposure.