

CHAITANYA CHS, 2<sup>nd</sup> FLOOR, OFFICE # 206, SIDDHARTH NAGAR, S.V.ROAD, GOREGAON (W), MUMBAI 400062, MH, INDIA.  
 CONTACT: +9122 28725393 /94/ 95 | EMAILID: CARE@SUVCHEM.COM

## MATERIAL SAFETY DATA SHEET (MSDS)

### O-TOLUIC ACID (FOR SYNTHESIS) (2-METHYLBENZOIC ACID)

#### 1 - Chemical Product

MSDS Name: o-Toluic Acid  
 Synonym: O-Methylbenzoic Acid, 2-Methylbenzoic Acid, orthotoluylic Acid

Cas NO: 118-90-1

Product Coad: T0208400250

Molecular Formula: CH<sub>3</sub>C<sub>6</sub>H<sub>4</sub>COOH  
 Molecular Weight: 136.0548

#### 2 - COMPOSITION, INFORMATION ON INGREDIENTS

CAS#	Chemical Name	content	EINECS#
118-90-1	Benzoic acid, 2-methyl-	100.0	204-284-9

#### 3 - HAZARDS IDENTIFICATION

##### EMERGENCY OVERVIEW

Harmful if swallowed. The toxicological properties of this material have not been fully investigated.

Potential Health Effects

Eye: May cause eye irritation. Skin: May cause skin irritation.

Ingestion: Harmful if swallowed. May cause irritation of the digestive tract.

The toxicological properties of this substance have not been fully investigated.

Inhalation: May cause respiratory tract irritation. The toxicological properties of this substance have not been fully investigated.

Chronic: Prolonged or repeated skin contact may cause dermatitis.

#### 4 - FIRST AID MEASURES

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.

Skin: Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

Ingestion: Never give anything by mouth to an unconscious person. Get medical aid immediately.

Inhalation: Get medical aid immediately. Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

Notes to Physician:

#### 5 - FIRE FIGHTING MEASURES

General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Combustible liquid. Can form explosive mixtures at temperatures above the flashpoint.

Extinguishing Media: In case of fire, use water, dry chemical, chemical foam, or alcohol-resistant foam.

#### 6 - ACCIDENTAL RELEASE MEASURES

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks: Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container.

#### 7 - HANDLING and STORAGE

Handling: Wash thoroughly after handling. Use with adequate ventilation. Avoid contact with skin and eyes. Avoid ingestion and inhalation.

Storage: Store in a cool, dry, well-ventilated area away from incompatible substances.

#### 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION

Engineering Controls: Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

Exposure Limits CAS# 118-90-1: Personal Protective Equipment Eyes: Wear safety glasses and chemical goggles if splashing is possible.

Skin: Wear appropriate protective gloves and clothing to prevent skin exposure.

Clothing: Wear appropriate protective clothing to minimize contact with skin. Respirators: Wear a NIOSH/MSHA or European Standard EN 149 approved full-facepiece airline respirator in the positive pressure mode with emergency escape provisions.

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**MATERIAL SAFETY DATA SHEET (MSDS)****O-TOLUIC ACID (FOR SYNTHESIS) (2-METHYLBENZOIC ACID)****9 - PHYSICAL AND CHEMICAL PROPERTIES**

Physical State: Solid  
Color: off-white to light yellow  
Odor: Not available.  
pH: Not available.  
Vapor Pressure: Not available.  
Viscosity: Not available.  
Boiling Point: 259 deg C  
Freezing/Melting Point: 102 deg C  
Autoignition Temperature: Not available.  
Flash Point: Not applicable.  
Explosion Limits, lower: Not available.  
Explosion Limits, upper: Not available.  
Decomposition Temperature:  
Solubility in water: Slightly soluble in water.  
Specific Gravity/Density:

**10 - STABILITY AND REACTIVITY**

Chemical Stability: Stable under normal temperatures and pressures. Conditions to Avoid: Incompatible materials. Incompatibilities with Other Materials:  
Strong oxidizing agents, strong bases. Hazardous Decomposition Products:  
Carbon monoxide, carbon dioxide. Hazardous Polymerization: Has not been reported.

**11 - TOXICOLOGICAL INFORMATION**

RTECS#: CAS# 118-90-1: XU1400000 LD50/LC50:  
Not available.  
Carcinogenicity: Benzoic acid, 2-methyl- - Not listed by ACGIH, IARC, or NTP.  
Other: See actual entry in RTECS for complete information.

**12 - ECOLOGICAL INFORMATION****13 - DISPOSAL CONSIDERATIONS**

Products which are considered hazardous for supply are classified as Special Waste and the disposal of such chemicals is covered by regulations which may vary according to location. Contact a specialist disposal company or the local waste regulator for advice. Empty containers must be decontaminated before returning for recycling.

**14 - TRANSPORT INFORMATION**

Not regulated

**15 - REGULATORY INFORMATION**

European/International Regulations  
European Labeling in Accordance with EC Directives  
Hazard Symbols: XN  
Risk Phrases:  
R 22 Harmful if swallowed.  
Safety Phrases:  
S 24/25 Avoid contact with skin and eyes.  
WGK (Water Danger/Protection)  
CAS# 118-90-1: 1  
Canada  
CAS# 118-90-1 is listed on Canada's DSL List.  
CAS# 118-90-1 is not listed on Canada's Ingredient Disclosure List.  
US FEDERAL  
TSCA  
CAS# 118-90-1 is listed on the TSCA inventory.

**16. Other Information**

**Product Use:** Laboratory Reagent.

**MATERIAL SAFETY DATA SHEET (MSDS)**

**O-TOLUIC ACID (FOR SYNTHESIS) (2-METHYLBENZOIC ACID)**

In accordance with REACH Regulation (CE) N° 1907/2006 and with CLP Regulation (CE) N° 1272/2008

**DISCLAIMER:**

- **SUVCHEM** Products are to be used as Lab Chemicals for R&D only. Not for drug, medicinal, household or other uses.
- **SUVCHEM** shall not be responsible for any damage resulting from handling or from contact with the above product.
- **SUVCHEM** provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product.

**End of document**