Tradeasia International PTE LTD
133 Cecil Street # 12-03 Keck Seng Tower, Singapore 069535
Tel: +65-6227 6365 Fax: +65-6225 6286
www.chemtradeasia.com

Material Safety Data Sheet
2,4,6-Trimethylphenol

Section 1 - Product Identification

Synonyms : Mesitol
Molecular Weight : 136.19 g/mol
Chemical Formula : $C_9H_{12}O$
Company Identification : Tradeasia International Pte. Limited
Address : 133 Cecil Street # 12-03 Keck Seng Tower, Singapore
Tel: +65-6227 6365
Fax: +65-6225 6286
Email: contact@chemtradeasia.com

Recommended use of the chemical and restrictions on use:
The product is used as a laboratory chemical. Not for food, drug, pesticide or biocidal product use.

Section 2 – Composition/Information on Ingredients

The product contains greater than 95 percent (%) 2,4,6-Trimethylphenol

Chemical Name	EC/CAS No	Purity, %
2,4,6-Trimethylphenol	208-419-2/527-60-6	min. 95.0

Section 3 – Hazards Identification

3.1 Classification of the substance or mixture

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

3.2 Label elements

The product needs to be labelled with a danger sign.

3.3 Other hazards

Potential health effects

Eye

Can cause eye damage. Causes redness and pain.

Skin

Causes severe skin burns. Harmful in contact with skin and may cause allergic skin reaction

Ingestion

Harmful if swallowed

Inhalation

May cause respiratory irritation.

Chronic

Prolonged or repeated exposure may cause damage to organs

Section 4 – First-Aid Measures

4.1. Description of first aid measures

Skin contact

Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Call a physician immediately.

Eye contact

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Immediate medical attention is required. Keep eye wide open while rinsing.

Inhalation

Move to fresh air. If not breathing, give artificial respiration. Call a physician or Poison Control Center immediately. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.

Ingestion

Immediate medical attention is required. Do not induce vomiting. Drink plenty of water. Never give anything by mouth to an unconscious person.

4.2. Most important symptoms and effects, both acute and delayed

Causes burns by all exposure routes. May cause allergic skin reaction. Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated: Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation: Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain or flushing

4.3. Indication of any immediate medical attention and special treatment needed

N.A.

Section 5 – Fire Fighting Measures

5.1. Suitable Extinguishing media

CO2, dry chemical, dry sand, alcohol-resistant foam.

5.2. Specific hazards arising from the chemical

The product causes burn of eyes, skin and mucous membranes

5.3. Special protective actions for fire-fighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Thermal decomposition can lead to release of irritating gases and vapors.

5.4. Hazardous Combustion Products

Carbon monoxide (CO) Carbon dioxide (CO2)

Section 6 – Accidental Release Measures

6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Evacuate personnel to safe areas. Avoid contact with skin, eyes and clothing.

6.2. Environmental precautions

Do not flush into surface water or sanitary sewer system.

6.3. Methods and material for containment and cleaning up

Sweep up or vacuum up spillage and collect in suitable container for disposal. Avoid dust formation.

Section 7 – Handling and Storage

7.1. Precautions for safe Handling

Wear personal protective equipment. Do not get in eyes, on skin, or on clothing. Use only under a chemical fume hood. Do not breathe dust. Do not ingest.

7.2. Conditions for safe storage, including any incompatibilities

Corrosives area. Keep containers tightly closed in a dry, cool and well-ventilated place

Section 8 – Exposure Controls/Personal Protection

8.1. Control parameters

8.2. Appropriate engineering controls

Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.

8.3. Individual protection measures, such as personal protective equipment (PPE)

Respiratory protection

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced

Eyes and hands protection

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Body protection

Long sleeved clothing.

Section 9 – Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance: Beige Solid
Odour: No information available
Odour threshold: N.A.
pH: No information available
Melting point: 70-73°C
Boiling point: 220°C
Flash point: N.A.
Evaporation rate: Not applicable
Flammability: N.A.
Upper/lower flammability or explosive limits: N.A
Vapour pressure: N.A.
Vapour density: N.A.
Relative density: No information available
Solubility in water: No information available
Partition coefficient: n-octanol/water: N.A
Auto-ignition temperature: No information available
Decomposition temperature: No information available
Viscosity: N.A.
Explosive properties: N.A.
Oxidizing properties: N.A.

Section 10 – Stability and Reactivity

10.1. Reactivity
None known, based on information available
10.2. Chemical stability
Stable under recommended storage conditions
10.3. Possibility of hazardous reactions
No information available.
10.4. Conditions to avoid:
Incompatible products. Avoid dust formation.
10.5. Incompatible materials
Bases, Acid anhydrides, Acid chlorides, Metals, copper
10.6. Hazardous decomposition products
Carbon monoxide (CO), Carbon dioxide (CO2)

Section 11 – Toxicological Information

Information on toxicological effects
LD50/LC50:
Oral, rat: LD50 > 2000 mg/kg
Acute toxicity
N.A
Skin corrosion / irritation
Causes burns by all exposure routes
Serious eye damage/ irritation
May cause eye damage and irritation
Respiratory or skin sensitization
May cause sensitization by skin contact
Germcell mutagenicity
DNA Inhibition: Human, Lymphocyte = 600 mmol/L.; Cytogenetic Analysis: Human, Leukocyte = 50 mmol/L.; DNA Damage: Mouse, Lymphocyte = 628 mmol/L.; Mutation in Mammalian Somatic Cells: Mouse, Lymphocyte = 265 mmol/L
Carcinogenicity
N.A.
Reproductive toxicity
Intraplacental, woman: TDLo = 1400 mg/kg (female 16-week(s) after conception) Fertility - abortion.
Intraplacental, woman: TDLo = 1600 mg/kg (female 16-week(s) after conception) Fertility - abortion.
STOT-single exposure
N.A.
STOT-repeated exposure
N.A.
Aspiration Hazard
N.A.
Potential health effects
RTECS: N.A

Section 12 – Ecological Information

12.1. Toxicity

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

12.2. Persistence and degradability

N.A

12.3. Bioaccumulative potential

N.A

12.4. Mobility in soil

N.A

12.5. Other adverse effects

N.A

Section 13 – Disposal Considerations

13.1. Disposal methods

Product

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

Contaminated Packaging

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

Section 14 – Transport Information

14.1. UN number: UN2430

14.2. UN proper shipping name: ALKYLPHENOLS, SOLID, N.O.S

14.3. Transport of hazard classes: 8

14.4. Packing group: II

14.5. Environmental hazards: N.A.

14.6. Special precautions for user: N.A

14.7. Incompatible materials: N.A.

Section 15 – Regulatory Information

15.1. Safety, health and environmental regulations for the substance/mixture

Notification status:

U.S. EPA TSCA Inventory	On the inventory, or in complicance with the inventory
Canadian DSL	On the inventory, or in complicance with the inventory
EINECS	On the inventory, or in complicance with the inventory
South Korea	On the inventory, or in complicance with the inventory
Japanese MITI	On the inventory, or in complicance with the inventory

Ensure all national/local regulations are observed.

Section 16: Additional Information

16.1. Mainly changes made to the previous version of this Material Safety Data Sheet (MSDS):

N.A.

16.2. List of abbreviation and acronyms used in this MSDS

SDS: Safety Data Sheets

Index N°: atomic number of the element most characteristic of the properties of the substance
CAS No: Chemical Abstracts Service number
EC No: EINECS Number: European Inventory of Existing Commercial Substances
Repr. Cat. 2: Substance presumed human reproductive toxicant
Acute Oral Cat. 5: Substance which is of relatively low acute oral toxicity.
GHS: Globally Harmonised System of Classification and Labelling
LD_{50}: Median Lethal Dose
LC_{50}: Lethal Concentration, 50%
N.A.: Not Applicable
Japanese MITI: Japanese Ministry of International Trade and Industry
EC_{50}: Half maximal effective concentration
UN: United Nations
U.S. EPA TSCA Inventory: Inventory of the chemical substances manufactured or processed in the United States according to Toxic Substances Control Act compiled and published under the autority of the Environmental Protection Agency
Canadian DSL: Canadian Domestic Substances List

16.5. Disclaimer of Liability

The information in this MSDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its accuracy, reliability or completeness. The conditions or methods of handling, storage use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. It is the user's responsibility to satisfy himself as to the suitableness and completeness of such information for his own particular use. This MSDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS information may not be applicable.