

# PCI Synthesis

9 Opportunity Way  
Newburyport, MA 01950 Tel. (978) 462-5555

## Material Safety Data Sheet

Revision Number: 002

Date: 5/28/02

### Section 1. Preparation \ Substance Identification

Name of Substance: 2-Methylimidazole  
Synonyms: 2-MI  
CAS Number: 693-98-1 PCI Stock Number: 101491  
Supplier: PCI Synthesis  
Address: 9 Opportunity Way  
Telephone Number: (978) 462-5555  
Emergency Telephone Number (24 hrs): CHEMTREC 1800 424 9300 Intl 703 527 3887  
State nature of emergency, Point of Contact

### Section 2. Composition

Component	CAS NO.	%	PEL/TLV
2-Methylimidazole	693-98-1	99	Not established

SARA Title III Sect 313: not listed. All ingredients listed on EPA TSCA Inventory. EC: 211-765-7

### Section 3. Hazard Identification

Caution: **Corrosive Material. Will cause burns. Harmful by inhalation, ingestion, and absorption.**  
Caution: IRRITANT Contact with skin and eyes will result in moderate to severe irritation.  
Caution: Ingestion may result in severe gastric disturbances  
Caution: Inhalation of dusts may result in respiratory irritation.

### Section 4. First Aid Measures

Inhalation: Move to fresh air. Aid in breathing if necessary with oxygen and get immediate medical attention.  
Eyes: Immediately flush eyes with tepid water for at least 15 minutes. Assure adequate flushing of eyes by separating the eyelids with fingers. Get immediate medical attention.  
Skin: Wash affected areas with warm water and soap. Get medical assistance if necessary.  
Ingestion: If swallowed INDUCE VOMITING. Dilute with water or milk and get immediate medical attention.

### Section 5. Fire Fighting Measures

Hazardous decomposition products: Emits toxic fumes of CO, CO2, NOX, and ammonia gases.  
Special Fire Fighting Procedures: Use water, carbon dioxide, or dry chemical extinguishing media.  
Firefighters should be equipped with self-contained breathing apparatus and turn out gear. Prevent build-up of static electricity inert atmospheres to control dust.  
Explosion Hazards: Eliminate explosion hazards by grounding equipment in contact with material.

### Section 6. Accidental Release Measures

Personal Precautions: Use with local exhaust to control dusts and vapors. Wear approved respirator, goggles, gloves, coveralls, apron, boots and other personal protective equipment as necessary.  
Environmental Precautions: Do not rinse spills to any waterway, swale, stream, pond, or sewer.  
Clean up procedure: Clean up spills immediately and place in suitable containers for disposal.

### Section 7. Handling & Storage

Handling Precautions: Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Avoid contact with eyes, skin and clothing. Avoid inhalation or ingestion.  
Storage Requirement: Store in a cool, dry place. Keep containers closed when not in use.

### Section 8. Exposure Controls \ Personal Protection

Occupational Exposure Limit: N/A  
Biological Exposure Limit: N/A  
Ventilation: Use local exhaust at point of manufacture or use.  
Respiratory Protection: Approved NIOSH respirator. **Do not breathe dust, material is corrosive.**  
Eye Protection: Chemical goggles and Safety Glasses with safety shields.  
Skin Protection: Gloves, coveralls, apron, boots as necessary to prevent skin contact.

## Section 9. Physical & Chemical Properties

Boiling/ Melting Point:	BP- 267-268 Deg C; MP- 142-143 Deg C.
Appearance:	White crystalline powder
Odor:	None
Solubility in Water:	Soluble, 780 gm/l
pH:	10.5
Specific Gravity:	.4 - .6 kg/l
Vapor Pressure:	<1mm Hg @ 20 Deg C
Molecular Weight:	82.12

## Section 10. Stability & Reactivity

Conditions to Avoid: High heat and humidity

Materials to Avoid: Strong oxidizers, Strong acids, acid chlorides, and acid anhydrides.

Hazardous decomposition products: Emits toxic fumes of CO, CO<sub>2</sub>, NOX, and ammonia gases.

Stabilization techniques: None

## Section 11. Toxicological Information

Routes of Entry: Ingestion, absorption, and inhalation.

Acute Health Effects: Harmful if swallowed, inhaled or absorbed through the skin. Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin. Inhalation may result in spasm, inflammation and edema of the larynx and bronchi, chemical pneumonitis, and pulmonary edema.

Symptoms of exposure may include burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea, and vomiting.

Chronic Health Effects: To the best of our knowledge the chemical, physical, and toxicological properties have not been thoroughly investigated.

Target Organs: Behavioral (convulsions or similar effect on seizure threshold) Only selected registry of toxic effects of substances (RTECS) data is presented here. See actual entry in RTECS for complete information.

RTECS#: NI7175000,  
Imidazole, 2- methyl-

Toxicity Data:	ORL-MUS LD50: 1400 mg/kg	TXAPA9 14,301, 1969
	IPR-MUS LD50: 480 mg/kg	TXAPA9 14,301, 1969

IARC Cancer Review: Not determined.

EPA TSCA: Listed in Section 8 (B) Inventory.

## Section 12. Ecological Information

Mobility: slight

Persistence and Degradability: Not determined

Bioaccumulative Potential: Not determined

Aquatic Toxicity: Not determined

## Section 13. Disposal Consideration

Handling Precautions: Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Avoid contact with eyes, skin and clothing. Avoid inhalation or ingestion.

Method of Disposal: Combine with a combustible solvent and incinerate at a licensed hazardous waste disposal facility. Do not discharge to waterways or sewer system.

Statutory Provisions: None.

#### Section 14. Transport Information

CAS Number:	693-98-1	Packaging Group:	PG II
UN Number:	UN 3259	UN Class:	Corrosive
Label:	Amines, solid, corrosive, n.o.s. (2-Methylimidazole)	Special Provisions:	None

#### Section 15. Regulatory Information

Reviews, Standards, and Regulations:

NOHS 1974: HZD A1324; NIS 4; TNF; NOS 6; TNE 418  
NOES 1983: HZD A1324; NIS 11; TNF 318; NOS 22; TNE 7023; TFE 3073  
EPA TSCA Section 8(B) Chemical Inventory  
NTP Carcinogenesis Studies; Selected, April 1997.  
NTP Carcinogenesis Studies; Test Completed (peer review), April 1997.

#### Material is Corrosive

Hazard Symbol: R 34: Causes burns.  
R 20/21/22: Harmful by inhalation, ingestion, and contact with skin.  
R 36/37/38: Irritating to the eyes, respiratory system, and skin.

Safety Phrases: S 26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
S 27: Remove contaminated clothing immediately.  
S 36/37/39: Wear suitable protective clothing, gloves, and eye/face protection.  
S 22: Do not breathe dusts.

#### Section 16. Other Information

Recommended Uses and Restrictions: None noted.