

AERCHEM INC.
320 North Walnut
Bloomington, IN 47408

Telephone: 812.334.9996

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Emergency: 800.424.9300

SECTION 1: IDENTIFICATION

Product Name: 1-METHYLIMIDAZOLE
Common Name: 1-methyl-1H-imidazole, N-methylimidazole
Chemical Formula: imidazole
CAS No.: 616-47-7

SECTION 2: HAZARDOUS INGREDIENTS:

Acute overexposure: This material is corrosive to the body tissues. Skin contact with the liquid or vapors/mists may result in dermatitis and deep burns. Eye contact may result in burns and permanent injury. There are no other known acute effects associated with this material.

Chronic overexposure: 1-methylimidazole produced neurological effects and convulsions in mice. There are no known chronic effects associated with this material.

SECTION 3: PHYSICAL DATA

Appearance and Odor:	liquid, colorless, weak pyridine-like odor
Boiling point:(760 mmHg)	72-73°C @ 13 millibars
Freezing Point (@ 13 millibars)	-2 to -1°C
Vapor Pressure (mmHg):	0.4 millibars @ 20°C
Specific Gravity (Water = 1):	n/a
Solubility in water:(by weight)	miscible
Bulk density:	1.04 g/cc
pH	11.3
pH method:	100 g/L H2O

SECTION 4: FIRE AND EXPLOSION DATA

Flash point:	92°C DIN 51 758
Flammable limit:	2.7 - 15.7%
Autoignition temperature:	525°C DIN 51794
Extinguishing Media:	Use water fog, CO2 or dry chemical extinguishing media
Fire Fighting Procedures:	Firefighters should be equipped with self-contained breathing apparatus and turn out gear.
Unusual Fire and Explosion Hazards:	Not applicable

SECTION 5: REACTIVITY DATA

Stable X Unstable

Conditions to Avoid & Incompatibilities:	Mineral Acids
Hazardous Decomposition or byproducts:	Carbon monoxide, carbon dioxide, nitrogen oxides
Hazardous Polymerization:	does not occur

SECTION 6: HEALTH HAZARD DATA

Threshold Limit Value (TLV):	n/a
Permissible Exposure Limit:	n/a
Toxicity:	
Oral LD50 (rat):	1130 mg/kg, moderately toxic
rabbit eye irritation, unrinsed:	corrosive
rabbit, primary skin irritation:	corrosive
rat, inhalation safety screen:	not lethal, sat. vapor, room temp.

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rabbit, dermal LD₅₀ 400-640 mg/kg, moderately toxic

Ames Salmonella assay (direct plate):

negative, no mutagenic response

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SECTION 7: SPILLAGE AND DISPOSAL PROCEDURES

Spillage: Spills should be contained, solidified, and placed in suitable containers for disposal in a RCRA licensed facility. This material is RCRA hazardous due to its properties.

Disposal: Incinerate or bury in a RCRA licensed facility. Do not discharge into waterways or sewer systems without proper authority. Empty containers with less than 1 inch of residue may be landfilled at a licensed facility. Recommend crushing or other means to prevent unauthorized reuse. Other containers must be disposed of in a RCRA licensed facility.

SECTION 8: FIRST AID PROCEDURES

Eyes: Immediately rinse eyes with running water for 15 minutes. Get immediate medical attention.

Skin: Wash affected areas with water while removing contaminated clothing. Get immediate medical attention. Launder contaminated clothing before reuse.

Inhalation: Move to fresh air. Aid in breathing, if necessary, and get immediate attention.

Ingestion: Do not induce vomiting. Dilute with water or milk and get immediate medical attention. Never give fluids or induce vomiting if victim is unconscious or having convulsions.

SECTION 9: PRECAUTION TO BE TAKEN IN HANDLING AND STORING

Store to avoid sources of ignition and excessive heat. Consult info on reactivity and flammability

SECTION 10: SPECIAL PROTECTION INFORMATION

Ventilation: Use local exhaust to control vapors/mists

Eye Protection: Chemical goggles; also wear face shield if splashing hazard exists.

Protective Gloves: yes

Respiratory Protection: If vapors or mists are generated, wear a NIOSH/MSHA approved organic vapor/mist respirator or an air-supplied respirator as appropriate.

Other Protective Gear: eye wash fountains, safety showers; coveralls, apron, boots to prevent contact.

SECTION 11: TRANSPORT INFORMATION

DOT classification: UN2735, Class 8; amines, liquid, corrosive, n.o.s. (N-methylimidazole); PG II, packing instruction 808 (1 L max) or Y808 (Ltd Qty, 0.5L max.) - passenger/cargo aircraft; Pack instr. 812 (30L max) - cargo aircraft only.

DOT pictograms: Corrosive 8 label

SECTION 12: ENVIRONMENTAL TOXICITY INFORMATION

Golden Orfe, static 96 hour LC50 100-220 mg/L, practically non-toxic

Degradability in water, static test < 30 percent, not readily biodegradable