

Issue Date 15-Apr-2015

Revision Date 15-Apr-2015

Version 1

**1. IDENTIFICATION**

**Product identifier**

**Product Name** 1-Methylimidazole

**Other means of identification**

**Product Code** 4570

**UN/ID no.** UN2735

**Synonyms** 1-Mehtyl-1H-Imidazole, N-Methylimidazole

**Recommended use of the chemical and restrictions on use**

**Recommended Use** Laboratory chemicals.

**Uses advised against** No information available

**Details of the supplier of the safety data sheet**

**Manufacturer Address**

Harrell Industries, Inc.  
2495 Commerce Drive  
Rock Hill, SC 29730

[www.harrellindustries.com](http://www.harrellindustries.com)

**Emergency telephone number**

**Company Phone Number** 803-327-6335

**Fax Number** 803-327-7808

**24 Hour Emergency Phone Number** 800 633-8253 (PERS)

**2. HAZARDS IDENTIFICATION**

**Classification**

**OSHA Regulatory Status**

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


Acute toxicity - Oral	Category 4
Acute toxicity - Dermal	Category 3
Skin corrosion/irritation	Category 1
Serious eye damage/eye irritation	Category 1

**Label elements**

**Emergency Overview**

**Danger**

**Hazard statements**  
Harmful if swallowed  
Harmful in contact with skin  
Causes severe skin burns and eye damage



<b>Appearance</b> colorless	<b>Physical state</b> liquid	<b>Odor</b> Slight pyridine-like odor
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**Precautionary Statements - Prevention**

Wear protective gloves/protective clothing/eye protection/face protection

Avoid contact with eyes

Causes eye burns

Causes skin burns

**Hazards not otherwise classified (HNOC)**

Not applicable

**Other Information**

Not applicable

**3. COMPOSITION/INFORMATION ON INGREDIENTS****Substance****Synonyms**

1-Mehtyl-1H-Imidazole, N-Methylimidazole.

**Formula**

C4H6N2

Chemical Name	CAS No.	Weight-%
Methylimidazole	616-47-7	100

**4. FIRST AID MEASURES****Description of first aid measures****Eye contact**

Wash eyes immediately with large amounts of water, occasionally lifting upper and lower eyelids, until no evidence of chemical remains. Continue irrigating with normal saline until ready to transport to the hospital. Cover with sterile bandages. Get medical attention immediately.

**Skin contact**

Remove contaminated clothing, shoes, and jewelry immediately. Wash with soap or mild detergent and large amounts of water until no evidence of chemical remains (at least 15-20 minutes). For burns, cover affected area with loose-fitting, dry, sterile dressing. Get medical attention immediately.

**Inhalation**

Remove to fresh air. Aid in breathing, if necessary, and get medical attention immediately.

**Ingestion**

Contact local poison control center immediately. Never make an unconscious person vomit or drink fluids. Give large amounts of water or milk. Allow vomiting to occur. When vomiting occurs, keep head lower than hips to help prevent aspiration. If person is unconscious, turn head to side. Get medical attention immediately.

**Most important symptoms and effects, both acute and delayed****Symptoms**

No information available.

**Indication of any immediate medical attention and special treatment needed****Note to physicians**

Treat symptomatically.

**5. FIRE-FIGHTING MEASURES****Suitable extinguishing media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Regular dry chemical,

carbon dioxide, water, regular foam.

**Large Fire** Use regular foam or flood with fine water spray.

**Unsuitable extinguishing media** Caution: Use of water spray when fighting fire may be inefficient.

#### **Specific hazards arising from the chemical**

No information available.

#### **Explosion data**

**Sensitivity to Mechanical Impact** None.

**Sensitivity to Static Discharge** None.

#### **Protective equipment and precautions for firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Move container from fire area if it can be done without risk. Do not get water inside container. Cool containers with water spray until well after the fire is out. Stay away from the ends of tanks. Withdraw immediately in case of rising sounds from venting safety device or any discoloration of tanks due to fire. For tank, rail car, or tank truck, evacuation radius: 800 meters (1/2 mile). Do not attempt to extinguish fire unless flow of material can be stopped first. Cool containers with water until fire is out. Apply water from a protected location or from a safe distance. Reduce vapors with water spray. Avoid inhalation of material or combustion by-products. Stay upwind and keep out of low areas.

## **6. ACCIDENTAL RELEASE MEASURES**

#### **Personal precautions, protective equipment and emergency procedures**

**Personal precautions** Ensure adequate ventilation, especially in confined areas.

#### **Environmental precautions**

**Environmental precautions** See Section 12 for additional ecological information.

#### **Methods and material for containment and cleaning up**

**Methods for containment** Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up** Spills should be contained, solidified, and placed in suitable containers for disposal in a licensed facility.

## **7. HANDLING AND STORAGE**

#### **Precautions for safe handling**

**Advice on safe handling** Handle in accordance with good industrial hygiene and safety practice.

#### **Conditions for safe storage, including any incompatibilities**

**Storage Conditions** Keep container tightly closed in a dry and well-ventilated place. Keep away from excess heat and sources of ignition.

**Incompatible materials** Mineral acids.

## **8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

#### **Control parameters**

**Exposure Guidelines** This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

#### **Appropriate engineering controls**

**Engineering Controls** Showers  
Eyewash stations

Ventilation systems.

#### **Individual protection measures, such as personal protective equipment**

<b>Eye/face protection</b>	Use chemical safety goggles and/or full face shield. Maintain eye wash fountain and quick-drench facilities in work area.
<b>Skin and body protection</b>	Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact. Wear protective gloves and protective clothing.
<b>Respiratory protection</b>	If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

**General Hygiene Considerations** Handle in accordance with good industrial hygiene and safety practice.

## **9. PHYSICAL AND CHEMICAL PROPERTIES**

### **Information on basic physical and chemical properties**

<b>Physical state</b>	liquid	<b>Odor</b>	Slight pyridine-like odor
<b>Appearance</b>	colorless	<b>Odor threshold</b>	No information available
<b>Color</b>	colorless		

<b><u>Property</u></b>	<b><u>Values</u></b>	<b><u>Remarks • Method</u></b>
<b>pH</b>	11.3	
<b>Melting point / freezing point</b>	-2 - -3 °C /	@ 13 mbars
<b>Boiling point / boiling range</b>	72- 73 °C	@ 13 mbars
<b>Flash point</b>	92	
<b>Evaporation rate</b>	No information available	
<b>Flammability (solid, gas)</b>	No information available	
<b>Flammability Limit in Air</b>		
<b>Upper flammability limit:</b>	No information available	
<b>Lower flammability limit:</b>	No information available	
<b>Vapor pressure</b>	0.4 mbars @20 C	
<b>Vapor density</b>	No information available	
<b>Relative density</b>	No information available	
<b>Water solubility</b>	Miscible in water.	
<b>Solubility in other solvents</b>	No information available	
<b>Partition coefficient</b>	No information available	
<b>Autoignition temperature</b>	No information available	
<b>Decomposition temperature</b>	No information available	
<b>Kinematic viscosity</b>	No information available	
<b>Dynamic viscosity</b>	No information available	
<b>Explosive properties</b>	No information available	
<b>Oxidizing properties</b>	No information available	

### **Other Information**

<b>Softening point</b>	No information available
<b>Molecular weight</b>	82
<b>VOC Content (%)</b>	No information available
<b>Density</b>	No information available
<b>Bulk density</b>	No information available

## **10. STABILITY AND REACTIVITY**

### **Reactivity**

No data available

### **Chemical stability**

Stable at normal temperatures and pressure.

**Possibility of Hazardous Reactions**

None under normal processing.

**Hazardous polymerization** Hazardous polymerization does not occur.

**Conditions to avoid**

Heat, flames and sparks. Incompatible materials.

**Incompatible materials**

Mineral acids.

**Hazardous Decomposition Products**

Thermal decomposition products: CO, CO<sub>2</sub>, NO<sub>x</sub>.

## 11. TOXICOLOGICAL INFORMATION

**Information on likely routes of exposure**

<b>Product Information</b>	No data available
<b>Inhalation</b>	No data available.
<b>Eye contact</b>	No data available.
<b>Skin contact</b>	No data available.
<b>Ingestion</b>	No data available.

**Information on toxicological effects**

**Symptoms** Corrosive to body tissues. Skin contact with vapors/mist may result in dermatitis and burns. Eye contact may result in burns and permanent damage.

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

<b>Sensitization</b>	No information available.
<b>Germ cell mutagenicity</b>	No information available.
<b>Carcinogenicity</b>	No information available.
<b>Reproductive toxicity</b>	No information available.
<b>STOT - single exposure</b>	No information available.
<b>STOT - repeated exposure</b>	No information available.
<b>Aspiration hazard</b>	No information available.

**Numerical measures of toxicity - Product Information**

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity**

**Persistence and degradability**

No information available.

**Bioaccumulation**

No information available.

**Other adverse effects** No information available

## 13. DISPOSAL CONSIDERATIONS

**Waste treatment methods**

<b>Disposal of wastes</b>	Disposal should be in accordance with applicable regional, national and local laws and regulations.
<b>Contaminated packaging</b>	Do not reuse container.

#### 14. TRANSPORT INFORMATION

<b>DOT</b>	Regulated
UN/ID no.	UN2735
Proper shipping name	Amines, Liquid, Corrosive, N.O.S., (Methylimidazole)
Hazard Class	8
Packing Group	II
<b>TDG</b>	Regulated
UN/ID no.	UN2735
Proper shipping name	Amines, Liquid, Corrosive, N.O.S., (Methylimidazole)
Hazard Class	8
Packing Group	II
<b>MEX</b>	Regulated
UN/ID no.	UN2735
Proper shipping name	Amines, Liquid, Corrosive, N.O.S., (Methylimidazole)
Hazard Class	8
Packing Group	II
<b>ICAO (air)</b>	Regulated
UN/ID no.	UN2735
Proper shipping name	Amines, Liquid, Corrosive, N.O.S., (Methylimidazole)
Hazard Class	8
Packing Group	II
<b>IATA</b>	Regulated
UN/ID no.	UN2735
Proper shipping name	Amines, Liquid, Corrosive, N.O.S., (Methylimidazole)
Hazard Class	8
Packing Group	II
<b>IMDG</b>	Regulated
UN/ID no.	UN2735
Proper shipping name	Amines, Liquid, Corrosive, N.O.S., (Methylimidazole)
Hazard Class	8
Packing Group	II
<b>RID</b>	Regulated
UN/ID no.	UN2735
Proper shipping name	Amines, Liquid, Corrosive, N.O.S., (Methylimidazole)
Hazard Class	8
Packing Group	II
<b>ADR</b>	Regulated
UN/ID no.	UN2735
Proper shipping name	Amines, Liquid, Corrosive, N.O.S., (Methylimidazole)
Hazard Class	8
Packing Group	II
<b>ADN</b>	Regulated
UN Number	UN2735
Proper shipping name	Amines, Liquid, Corrosive, N.O.S., (Methylimidazole)
Hazard Class	8
Packing Group	II

#### 15. REGULATORY INFORMATION

##### International Inventories

<b>TSCA</b>	Complies
<b>DSL/NDSL</b>	Complies

<b>EINECS/ELINCS</b>	Complies
<b>ENCS</b>	Complies
<b>IECSC</b>	Complies
<b>KECL</b>	Complies
<b>PICCS</b>	Complies
<b>AICS</b>	Complies

**Legend:**

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

**PICCS** - Philippines Inventory of Chemicals and Chemical Substances

**AICS** - Australian Inventory of Chemical Substances

**US Federal Regulations****SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

**SARA 311/312 Hazard Categories**

<b>Acute health hazard</b>	No
<b>Chronic Health Hazard</b>	No
<b>Fire hazard</b>	No
<b>Sudden release of pressure hazard</b>	No
<b>Reactive Hazard</b>	No

**CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

**CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

**US State Regulations****California Proposition 65**

This product does not contain any Proposition 65 chemicals

**U.S. State Right-to-Know Regulations****U.S. EPA Label Information**

**EPA Pesticide Registration Number** Not applicable

**16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION**

<b>NFPA</b>	<b>Health hazards</b> 3	<b>Flammability</b> 2	<b>Instability</b> 0	<b>Physical and Chemical Properties</b> -
<b>HMIS</b>	<b>Health hazards</b> 0	<b>Flammability</b> 0	<b>Physical hazards</b> 0	<b>Personal protection</b> X

**Issue Date** 15-Apr-2015

**Revision Date** 15-Apr-2015

**Revision Note**

No information available

**Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage,

transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**