

SAFETY DATA SHEET



Issuing Date 30-Jul-2019

Revision Date 20-Aug-2026

Revision Number 4

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product Identifier

Product Name **N-METHYL IMIDAZOLE**

Other means of identification

CAS Number 616-47-7
Formula C₄H₆N₂
Synonyms 1H-Imidazole, 1-Methyl-
UN-No UN2922

Recommended use of the chemical and restrictions on use

Recommended Use Specialty Chemicals
Uses advised against Avoid contact with food. Avoid prolonged contact with eyes, skin, and clothing.

Details of the supplier of the safety data sheet

Supplier Address THE HANSON GROUP, LLC
3044 Adriatic Court
Peachtree Corners, GA 30071
Phone: (770) 495-9554
Fax: (404) 521-4396
Email: sales@thehansongroup.com

Emergency Telephone Number(s)

ChemTrec: 1-800-424-9300 Outside of the United States: 1-703-527-3887

2. HAZARDS IDENTIFICATION

Classification

Acute toxicity - Oral	Category 4
Acute toxicity - Dermal	Category 3
Skin Corrosion/Irritation	Category 1 Sub-category B
Serious eye damage/eye irritation	Category 1
Flammable Liquids	Category 4

Label elements

Emergency Overview

Signal Word
DANGER

Hazard statements

Harmful if swallowed
Toxic in contact with skin
Causes severe skin burns and eye damage

**Appearance**

Clear Colorless to Light yellow

Physical State

Liquid

Odor

Amine-like

Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling
Do not eat, drink or smoke when using this product
Do not breathe dust/fume/gas/mist/vapors/spray
Wear protective gloves/protective clothing/eye protection/face protection
Keep away from heat/sparks/open flames/hot surfaces. — No smoking

Precautionary Statements - Response

Immediately call a POISON CENTER or doctor/physician
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
Immediately call a POISON CENTER or doctor/physician
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
Wash contaminated clothing before reuse
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
Immediately call a POISON CENTER or doctor/physician
IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
Rinse mouth
Do NOT induce vomiting
In case of fire: Use CO₂, dry chemical, or foam for extinction

Precautionary Statements - Storage

Store locked up
Store in a well-ventilated place. Keep cool

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

None known

Other Information

No information available

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

1H-Imidazole, 1-Methyl-

Formula

C₄H₆N₂

Chemical Name	CAS No	Weight-%	North American Hazard Indicator
1H-Imidazole, 1-Methyl-	616-47-7	100	True

4. FIRST AID MEASURES

First Aid Measures

General Advice	Show this safety data sheet to the doctor in attendance.
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Call a physician or poison control center immediately.
Skin Contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Wash contaminated clothing before reuse. Destroy contaminated shoes. Call a physician or poison control center immediately.
Inhalation	Remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Call a physician or poison control center immediately.
Ingestion	Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. Call a physician or poison control center immediately.
Self-Protection of the First Aider	Remove all sources of ignition. Use personal protective equipment as required. Avoid contact with eyes, skin and clothing.

Most important symptoms and effects, both acute and delayed

Signs and Symptoms	No information available.
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Indication of any immediate medical attention and special treatment needed

Notes to Physician	Treat symptomatically.
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5. FIRE-FIGHTING MEASURES

<u>Flammable properties</u>	Combustible liquid. Vapors may cause flash fire or explosion.
<u>Suitable Extinguishing Media</u>	Water spray. Carbon dioxide (CO2). Dry powder. Foam. Water mist may be used to cool closed containers. Do not get water inside containers.
<u>Unsuitable Extinguishing Media</u>	Not available.
<u>Hazardous Combustion Products</u>	Thermal decomposition or combustion may produce hazardous gases and/or materials.
<u>Explosion Data</u>	Not available
Sensitivity to mechanical impact	Not available.
Sensitivity to static discharge	Not available.

Specific Hazards Arising from the Chemical

Keep product and empty container away from heat and sources of ignition. Thermal decomposition can lead to release of irritating gases and vapours. In the event of fire and/or explosion do not breathe fumes. Risk of ignition. Container explosion may occur under fire conditions.

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.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions	Evacuate personnel to safe areas. Ensure adequate ventilation. Use personal protective equipment as required. Avoid contact with eyes, skin and clothing. In case of insufficient ventilation, wear suitable respiratory equipment. Remove all sources of ignition.
Other Information	Not applicable.
Environmental Precautions	Local authorities should be advised if significant spillages cannot be contained. Prevent further leakage or spillage if safe to do so. Do not allow into any sewer, on the ground or into any body of water. Prevent product from entering drains. Do not flush into surface water or sanitary sewer system. Should not be released into the environment.

Methods and material for containment and cleaning up

Methods for Containment	Not available.
Methods for Clean-up	Evacuate personnel to safe areas. Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container. Clean contaminated surface thoroughly. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment. Ground and bond containers when transferring material. Take precautionary measures against static discharges.

7. HANDLING AND STORAGE

Precautions for Safe Handling

Handling	Use only in an area equipped with a safety shower. Ensure that eyewash stations and safety showers are close to the workstation location. Ensure adequate ventilation. Use only in well-ventilated areas. Do not breathe vapours or spray mist. Avoid contact with eyes, skin and clothing. Avoid repeated exposure. Keep away from open flames, hot surfaces and sources of ignition. To avoid ignition of vapours by static electricity discharge, all metal parts of the equipment must be grounded.
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Conditions for safe storage, including any incompatibilities

Storage	Keep containers tightly closed in a dry, cool and well-ventilated place. Keep in properly labeled containers. Hygroscopic. Protect from moisture.
Incompatible Materials	Strong Acids. Carbon dioxide (CO ₂). Acid anhydrides. Acid chlorides. Mineral acids. Acids. Explosive reaction with osmium (VIII) oxide.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

<u>Exposure Guidelines</u>	This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.
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Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
1H-Imidazole, 1-Methyl- 616-47-7	-	-	-

Appropriate engineering controls

Engineering Controls	Ensure adequate ventilation, especially in confined areas.
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Individual protection measures, such as personal protective equipment

Eye/Face Protection	Tight sealing safety goggles. Face protection shield.
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Skin and body protection	Use suitable eye protection and gloves.
Respiratory Protection	In case of insufficient ventilation, wear suitable respiratory equipment.
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

Appearance	Clear Colorless to Light yellow
Physical State	Liquid
Odor	Amine-like
Odor Threshold	No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	No data available	
Melting point / Freezing point	No data available	Literary Reference
Boiling point / boiling range	198 °C	
Flash Point	92 °C	CC (closed cup)
Evaporation Rate		
Flammability (solid, gas)		
Flammability Limit in Air		
Upper flammability limit	15.7%	
Lower flammability limit	2.7%	
Vapor Pressure	No information available	
Vapor Density	Not available	
Specific Gravity	No information available	
Water Solubility	Soluble	
Solubility in other solvents	No information available	
Partition coefficient: n-octanol/water	Not available	
Autoignition temperature °C	525 °C	Estimated
Decomposition temperature	No data available	
Kinematic Viscosity	No information available	
Dynamic Viscosity	Not available	
Explosive Properties	No information available	
Oxidizing Properties	No information available	

Other Information

Softening Point	No information available
Molecular Weight	82.11 g/mol
VOC content	No information available
Density	1.03 g/cm ³ at 20 Deg. C
Bulk Density	No information available

10. STABILITY AND REACTIVITY

Reactivity	Not applicable.
Chemical Stability	Stable under normal conditions
Hazardous Polymerization	None under normal processing Hazardous polymerization does not occur
Conditions to Avoid	Keep away from open flames, hot surfaces and sources of ignition. Hygroscopic. Protect from moisture. Contact with metal may evolve flammable hydrogen gas.
Incompatible Materials	Strong Acids. Carbon dioxide (CO ₂). Acid anhydrides. Acid chlorides. Mineral acids. Acids. Explosive reaction with osmium (VIII) oxide.
Hazardous Decomposition Products	Carbon monoxide. Carbon dioxide (CO ₂). Nitrogen oxides (NO _x).

Possibility of Hazardous Reactions

Hazardous polymerization may occur

11. TOXICOLOGICAL INFORMATION

Product Information	No information or data specific to the product on this toxicological (health) effect is available
Oral LD50	1130 mg/kg; (rat)
Dermal LD50	400 - 640 mg/kg; (rabbit)

The following values are calculated based on chapter 3.1 of the GHS document .

ATEmix (oral)	500 mg/kg
ATEmix (dermal)	300 mg/kg

Information on likely routes of exposure

Eyes	Corrosive. Causes burns. Conjunctivitis. May cause corneal injury. Avoid contact with eyes.
Skin	Toxic in contact with skin. Corrosive. Causes burns. Symptoms may be delayed. May cause cyanosis. May cause skin rash (in milder cases), and cold and clammy skin with cyanosis or pale color. Avoid contact with skin.
Inhalation	Toxic by inhalation. Corrosive. Causes burns. Symptoms may be delayed. Causes chemical burns to the respiratory tract. Inhalation may result in spasm, inflammation and edema of the larynx and bronchi, chemical pneumonitis, and pulmonary edema. Aspiration may lead to pulmonary edema. Systemic health effects. Inhalation of high concentrations may cause CNS depression and asphyxiation. Avoid breathing vapors or mists.
Ingestion	Toxic if swallowed. Causes burns. Ingestion causes burns of the upper digestive and respiratory tracts. May cause severe and permanent damage to the digestive tract. Causes gastrointestinal tract burns. Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation. Systemic health effects. Do not take internally.

Information on toxicological effects

Symptoms	No information available.
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Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation	Skin, rabbit: Severe skin irritation ; Eye, rabbit: Severe eye irritation
Serious eye damage/irritation	No information available.
Corrosivity	Corrosivity. Causes burns.
Skin Corrosion/Irritation	No information available.
Sensitization	No information available.
Reproductive Effects	No information available.
Mutagenic Effects	No information available.
Developmental Effects	No information available.
STOT - single exposure	No information available.
STOT - Repeated Exposure	No information available.

Chronic Toxicity	Avoid repeated exposure. Target Organ Effects.
Target Organ Effects	Eyes, Skin, Respiratory system, Blood.
Aspiration Hazard	No information available.

Numerical measures of toxicity - Product Information

Oral LD50	1130 mg/kg (rat)
Dermal LD50	400 - 640 mg/kg (rabbit)

12. ECOLOGICAL INFORMATION**Ecotoxicity**

There is no known ecological information for this product.

100 % of the mixture consists of components(s) of unknown hazards to the aquatic environment

Persistence/Degradability	No information available.
Bioaccumulation/Accumulation	No information available.
Mobility in Soil	No information available.

13. DISPOSAL CONSIDERATIONS**Waste treatment methods**

Disposal Methods	Contact waste disposal services. Dispose of in accordance with local regulations.
Contaminated Packaging	Dispose of in accordance with local regulations. Empty containers should be taken to an approved waste handling site for recycling or disposal.
US EPA Waste Number	Not available

14. TRANSPORT INFORMATION**DOT**

UN-No	UN2922
Proper Shipping Name	Corrosive liquid, toxic, n.o.s
Hazard Class	8
Subsidiary Class	6.1
Packing Group	II
Description	UN2922, CORROSIVE LIQUIDS, TOXIC, N.O.S. (1H-Imidazole, 1-Methyl-), 8 (6.1), II
Emergency Response Guide Number	154

TDG

UN-No	UN2922
Proper Shipping Name	Corrosive liquid, toxic, n.o.s.
Hazard Class	8
Subsidiary Class	6.1

Packing Group	II
Description	UN2922, Corrosive liquid, toxic, n.o.s., 8 (6.1), II
<u>MEX</u>	
UN-No	UN2922
Proper Shipping Name	Corrosive liquid, toxic, n.o.s.
Hazard Class	8
Subsidiary Class	6.1
Packing Group	II
Description	UN2922, Corrosive liquid, toxic, n.o.s., 8 (6.1), II
<u>ICAO</u>	
UN-No	UN2922
Proper Shipping Name	Corrosive liquid, toxic, n.o.s.
Hazard Class	8
Subsidiary Class	6.1
Packing Group	II
Description	UN2922, Corrosive liquid, toxic, n.o.s., 8 (6.1), II
<u>IATA</u>	
UN-No	UN2922
Proper Shipping Name	Corrosive liquid, toxic, n.o.s.
Hazard Class	8
Subsidiary Class	6.1
Packing Group	II
Description	UN2922, Corrosive liquid, toxic, n.o.s., 8 (6.1), II
<u>IMDG/IMO</u>	
UN-No	UN2922
Proper Shipping Name	Corrosive liquid, toxic, n.o.s.
Hazard Class	8
Subsidiary Class	6.1
Packing Group	II
EmS No.	F-A, S-B
Description	UN2922, Corrosive liquid, toxic, n.o.s., 8 (6.1), II
<u>RID</u>	
UN-No	UN2922
Proper Shipping Name	Corrosive liquid, toxic, n.o.s.
Hazard Class	8
Packing Group	II
Classification Code	CT1
Description	UN2922, Corrosive liquid, toxic, n.o.s., 8 (6.1), II
ADR/RID-Labels	8 + 6.1
<u>ADR</u>	
UN-No	UN2922
Proper Shipping Name	Corrosive liquid, toxic, n.o.s.
Hazard Class	8
Packing Group	II
Classification Code	CT1
Tunnel Restriction Code	(E)
Description	UN2922, Corrosive liquid, toxic, n.o.s., 8 (6.1), II
ADR/RID-Labels	8 + 6.1
<u>ADN</u>	
Proper Shipping Name	Corrosive liquid, toxic, n.o.s.
Hazard Class	8
Packing Group	II
Classification Code	CT1
Special Provisions	274, 802
Description	UN2922, Corrosive liquid, toxic, n.o.s., 8 (6.1), II
Hazard Labels	8 + 6.1

Limited Quantity	1 L
Ventilation	VE02
Equipment Requirements	PP, EP, TOX, A

15. REGULATORY INFORMATION

International Inventories

U.S.A. (TSCA)	Complies
Canada (DSL)	Complies
EU (EINECS)	Complies
EU (ELINCS)	Does not comply
Japan (ENCS)	Complies
China (IECSC)	Complies
Korea (KECL)	Complies
Philippines (PICCS)	Complies
Australia (AICS)	Complies

Chemical Name	U.S.A. (TSCA)	Canada (DSL)	EU (EINECS)	EU (ELINCS)	
1H-Imidazole, 1-Methyl-	Present	Present	Present	-	
Component	Japan (ENCS)	China (IECSC)	Korea (KECL)	Philippines (PICCS)	Australia (AICS)
1H-Imidazole, 1-Methyl-616-47-7 (100)	Present (5)-802;(5)-5813	Present	Present	Present	Present
Chemical Name		Mexico INV		Taiwan INV	
1H-Imidazole, 1-Methyl-616-47-7		Present		-	

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

Acute Health Hazard	Yes
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product does not contain any HAPs.

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

State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

State Right-to-Know

This product does not contain any State Right-to-Know chemicals.

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

Canada

WHMIS Statement

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

NFPA

Health 3

Flammability 2

Instability 0

Physical Hazard 0



Issuing Date

30-Jul-2019

Revision Date

20-Aug-2026

Revision Summary

Not 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