

## SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY

### 1.1. Product Identifier

**Product Form:** Substance

**Product Name:** 1-Methyl-1H-pyrazole

**CAS No:** 930-36-9

**Product Code:** VOLO10007

**Standard InChI:** InChI=1S/C4H6N2/c1-6-4-2-3-5-6/h2-4H,1H3

### 1.2. Intended Use of the Product

**Use of the substance/mixture:** For laboratory research purposes.

### 1.3. Name, Address, and Telephone of the Responsible Party

#### Manufacturer

Volochem, Inc.

2600 Hilltop Dr.

Bldg B #C211

Richmond, CA 94806

T 510.748.0159

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

### 1.4. Emergency Telephone Number

**Emergency Number** : 510-748-0159 (9a-5p M-F)

## SECTION 2: HAZARDS IDENTIFICATION

### 2.1. Classification of the Substance or Mixture

#### Classification (GHS-US)

Flammable liquids (Category 3)

Skin irritation (Category 2)

Serious eye irritation (Category 2A)

Specific target organ toxicity – single exposure (Category 3)

### 2.2. Label Elements

#### GHS-US Labeling

**Pictogram(s):** GHS02, GHS07



**Signal word:** Warning

#### Hazard statement(s)

H226	Flammable liquid and vapor.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.

#### Precautionary statement(s)

P210	Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking.
P233	Keep container tightly closed.
P240	Ground and bond container and receiving equipment.
P241	Use explosion-proof equipment.

# 1-Methyl-1H-pyrazole

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

P242	Use non-sparking tools.
P243	Take action to prevent static discharges.
P261	Avoid breathing dust/fume/gas/mist/vapors/spray.
P264	Wash thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P303+P361+P353	IF ON SKIN: Take off immediately all contaminated clothing. Rinse skin with water or shower.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P363	Wash contaminated clothing before reuse.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312	Call a POISON CENTER/ doctor if you feel unwell.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313	If eye irritation persists: Get medical advice/attention.
P370+P378	In case of fire: Use alcohol-resistant foam, dry chemical, or carbon dioxide to extinguish.
P403+P233+P235	Store in a well-ventilated place. Keep container tightly closed. Keep cool.
P405	Store locked up
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

### 2.3. Hazards not otherwise classified (HNOC) or not covered by GHS

No additional information available.

### 2.4. Unknown Acute Toxicity (GHS-US)

100% of the product consists of ingredient(s) of unknown acute toxicity.

Handle in accordance with prudent practices for working with hazardous chemicals.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1. Substance

Name	Synonym(s)	Product Identifiers
1-Methylpyrazole	None	VOLO10007 CAS No. 930-36-9

## SECTION 4: FIRST AID MEASURES

### 4.1. Description of First Aid Measures

#### General advice

Consult a physician, Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

#### If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. CAUTION! Victim could be a source of contamination. Consult a physician.

#### In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

#### In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

#### If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

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

#### Symptoms/Injuries:

**Symptoms/Injuries After Inhalation:** May be harmful if inhaled. Causes respiratory tract irritation.

**Symptoms/Injuries After Skin Contact:** May be harmful if absorbed through skin. Causes skin irritation.

**Symptoms/Injuries After Eye Contact:** Causes eye irritation.

**Symptoms/Injuries After Ingestion:** May be harmful if swallowed

# 1-Methyl-1H-pyrazole

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

**Chronic Symptoms:** The chronic effects of this substance are unknown.

### 4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed

Nausea, headache, vomiting, burning sensation, cough, labored breathing, shortness of breath, sore throat, redness, pain, abdominal pain, burning sensation, and shock.

## SECTION 5: FIREFIGHTING MEASURES

### 5.1. Extinguishing Media

**Suitable Extinguishing Media:** For small fires, use media such as alcohol-resistant foam, dry chemical, or carbon dioxide. For large fires, apply water from as far as possible. Use very large quantities of water applied as a mist or spray; solid streams of water may be ineffective. Cool all affected containers with flooding quantities of water.

### 5.2. Special Hazards Arising From the Substance or Mixture

**Fire Hazard:** Product is a flammable liquid. Hazardous decomposition products formed under fire conditions. – carbon oxides, nitrogen oxides (NOx).

**Explosion Hazard:** Product is not explosive, but vapor air mixtures may form an explosive environment.

**Reactivity:** No data available.

### 5.3. Advice for Firefighters

**Firefighting Instructions:** Exercise caution when fighting any chemical fire.

**Protection During Firefighting:** Do not enter fire area without proper protective equipment, including respiratory protection. Wear self-contained breathing apparatus for fire fighting if necessary.

### 5.4. NFPA Rating

Health Hazard:	2
Flammability:	3
Reactivity Hazard:	0

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### 6.1. Personal Precautions, Protective Equipment and Emergency Procedures

#### 6.1.1. For Non-emergency Personnel

**Protective Equipment:** Use appropriate personal protection equipment (PPE).

**Emergency Procedures:** Evacuate unnecessary personnel.

#### 6.1.2. For Emergency Responders

**Protective Equipment:** Equip cleanup crew with proper protection.

**Emergency Procedures:** Ventilate area.

### 6.2. Environmental Precautions

Prevent entry to sewers and public waters.

### 6.3. Methods and Material for Containment and Cleaning Up

**For Containment:** Contain and collect as any solid.

**Methods for Cleaning Up:** Collect spillage. Avoid generation of dust during clean-up of spills. Clear up spills immediately and dispose of waste safely.

### 6.4. Reference to Other Sections

See heading 8, Exposure Controls and Personal Protection.

## SECTION 7: HANDLING AND STORAGE

### 7.1. Precautions for Safe Handling

Avoid contact with skin and eyes. Avoid inhalation of vapor or mist.

Keep away from sources of ignition – No smoking. Take measures to prevent the buildup of electrostatic charge.

### 7.2. Conditions for Safe Storage, Including Any Incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

# 1-Methyl-1H-pyrazole

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### 7.3. Specific End Use(s) For laboratory research purposes

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control Parameters

No Occupational Exposure Limits (OELs) have been established for this product or its chemical components.

### 8.2. Exposure Controls

#### Appropriate Engineering Controls

: Emergency eye wash fountains should be available in the immediate vicinity of any potential exposure. Avoid high dust concentration. Ensure adequate ventilation, especially in confined areas.

#### Personal Protective Equipment

: Gloves. Protective goggles. Insufficient ventilation: wear respiratory protection.



#### Hand Protection

: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

#### Eye Protection

: Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

#### Respiratory Protection

: Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### Skin and body protection

: Impervious clothing, flame retardant antistatic protective clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

#### Hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

This recommendation is advisory only and must be evaluated by an Industrial Hygienist familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on Basic Physical and Chemical Properties

Physical State	: Liquid
Appearance	: Clear, colorless.
Odor	: No data available
Odor Threshold	: No data available
pH	: No data available
Relative Evaporation Rate (butylacetate=1)	: No data available
Melting Point	: No data available
Boiling Point	: 127 °C (261 °F) at 1,013 hPa (760 mmHg)
Flash Point	: 36 °C (97 °F) – closed cup
Auto-ignition Temperature	: No data available
Decomposition Temperature	: No data available

# 1-Methyl-1H-pyrazole

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

<b>Flammability (solid, gas)</b>	: No data available
<b>Vapor Pressure</b>	: No data available
<b>Relative Vapor Density at 20 °C</b>	: No data available
<b>Relative Density</b>	: 0.988 g/cm <sup>3</sup> at 20 °C (68 °F)
<b>Specific Gravity</b>	: Not available
<b>Solubility</b>	: No data available
<b>Log Pow</b>	: No data available
<b>Log Kow</b>	: No data available
<b>Viscosity, Kinematic</b>	: No data available
<b>Viscosity, Dynamic</b>	: No data available
<b>Explosive Properties</b>	: No data available
<b>Oxidizing Properties</b>	: No data available
<b>Explosive Limits</b>	: Not applicable
<b>9.2. Other Information</b>	No additional information available

## SECTION 10: STABILITY AND REACTIVITY

<b>10.1. Reactivity:</b>	Hazardous reactions will not occur under normal conditions.
<b>10.2. Chemical Stability:</b>	Product is stable under recommended storage conditions.
<b>10.3. Possibility of Hazardous Reactions:</b>	Vapors may form explosive mixture with air.
<b>10.4. Conditions to Avoid:</b>	Heat, flames and sparks
<b>10.5. Incompatible Materials:</b>	Acids, oxidizing agents
<b>10.6. Hazardous Decomposition Products:</b>	Carbon oxides, nitrogen oxides (NO <sub>x</sub> )

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1. Information on Toxicological Effects

#### Acute Toxicity:

##### Oral LD50

No data available

##### Inhalation LC50

##### Dermal LD50

No data available

##### Other information on acute toxicity

No data available

**Skin Corrosion/Irritation:** No data available

**Serious Eye Damage/Irritation:** No data available

**Respiratory or Skin Sensitization:** No data available

**Germ Cell Mutagenicity:** No data available

**Carcinogenicity:** Not classified

**Reproductive Toxicity:** No data available

**Specific Target Organ Toxicity (Single Exposure):** Inhalation – May cause respiratory irritation

**Specific Target Organ Toxicity (Repeated Exposure):** No data available

**Aspiration Hazard:** No data available

**Symptoms/Injuries After Inhalation:** May be harmful if inhaled. Causes respiratory tract irritation

**Symptoms/Injuries After Skin Contact:** Harmful if absorbed through skin. Causes skin irritation.

**Symptoms/Injuries After Eye Contact:** Causes eye irritation.

**Symptoms/Injuries After Ingestion:** Harmful if swallowed.

**Chronic Symptoms:** The chronic effects of this substance are unknown.

# 1-Methyl-1H-pyrazole

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### SECTION 12: ECOLOGICAL INFORMATION

#### 12.1. Toxicity

No data available

#### 12.2. Persistence and Degradability

No data available

#### 12.3. Bioaccumulative Potential

No data available

#### 12.4. Mobility in Soil

No data available

#### 12.5. Other Adverse Effects

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

### SECTION 13: DISPOSAL CONSIDERATIONS

#### 13.1. Waste Treatment Methods

**Waste Disposal Recommendations:** Contact a licensed professional waste disposal service to dispose of this material. Dispose of waste material in accordance with all local, regional, national, and international regulations.

### SECTION 14: TRANSPORT INFORMATION

In Accordance With ICAO/IATA/IMDG/DOT

14.1.	UN Number	1993
14.2.	UN Proper Shipping Name	Flammable Liquids, n.o.s. (1-Methylpyrazole)
14.3.	Transport Hazard Class(es)	3
14.4.	Packing Group	III
14.5.1.	Marine Pollutant	No
14.5.2.	Reportable Quantity	No
14.6.1.	Toxic Inhalation Hazard	
14.6.2.	Mode Specific Comments	
14.6.3.	Ground Transportation - DOT (US)	EMS-No: F-E, S-E
14.6.4.	Marine Transportation - IMDG	
14.6.5.	Air Transportation - IATA/ICAO	

### SECTION 15: REGULATORY INFORMATION

#### 15.1. US Federal Regulations

##### EPA TSCA Inventory

Not listed

For research and development use only by technically qualified individuals under section 5(h)(3) of the Toxic Substances Control Act (TSCA)

##### SARA 302 Components

SARA 302. No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

##### SARA 313 Components

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold reporting levels established by SARA Title III, Section 313.

##### SARA 311/312 Components

Fire Hazard, Acute Health Hazard

# 1-Methyl-1H-pyrazole

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### 15.2. US State Regulations

#### California Proposition 65 List 2014

Not listed

#### Maine Chemicals of High Concern List 2012

Not listed

#### Massachusetts Right to Know Hazardous Substance List 2014

Not listed

#### New Jersey Right to Know Hazardous Substance List 2010

Not listed

#### Pennsylvania Right to Know Hazardous Substance List 2010

Not listed

## SECTION 16: OTHER INFORMATION

### 16.1 Other Classifications

#### HMIS

Health Hazard: 2

Flammability: 3

Physical Hazards: 0

Revision date : 3/14/2015

Other Information : This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

*Volochem chemicals are for research purposes only and are NOT intended for use as drugs, food additives, household goods, or pesticides. The information herein is believed to be correct, but does not claim to be all inclusive and should be used only as a guide. Neither the above named supplier nor any of its affiliates or subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All chemical reagents must be handled with the recognition that their chemical, physiological, toxicological, and hazardous properties have not been fully investigated or determined. All chemical reagents should be handled only by individuals who are familiar with their potential hazards and who have been fully trained in proper safety, laboratory, and chemical handling procedures. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist. Our SDS are based only on data available at the time of shipping and are subject to change without notice as new information is obtained. Avoid long storage periods since the product is subject to degradation with age and may become more dangerous or hazardous. It is the responsibility of the user to request updated SDS for products that are stored for extended periods. Disposal of unused product must be undertaken by qualified personnel who are knowledgeable in all applicable regulations and follow all pertinent safety precautions including the use of appropriate protective equipment (e.g. protective goggles, protective clothing, breathing equipment, face mask, fume hood). For proper handling and disposal, always comply with federal, state and local regulations.*

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