

# MATERIAL SAFETY DATA SHEET

MSDS Number  
P-051N



**AccuStandard**

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203-786-5290  
Mon. to Fri. 8am-5pm EDT

**Product Number :** P-051N

**Product Name :** Paraquat Dichloride

**Synonyms :** 1,1'-Dimethyl-4'-Bipyridinium

**Formula :** C<sub>12</sub>H<sub>14</sub>N<sub>2</sub>.2Cl

**Molecular Weight :** 257.18

## Section 2 - Composition / Information on Ingredients

Component(s)	( 1 )	CAS #	ACGIH TLV		OSHA PEL	
			Appr. % TWA	mg/m <sup>3</sup> SKIN	TWA	mg/m <sup>3</sup> SKIN
Methyl viologen dichloride hydrate		1910-42-5	100%			0.1

## Section 3 - Hazards Identification

### Symptoms of Exposure:

Harmful if inhaled, swallowed, or absorbed through the skin.

Human systems effects by ingestion: headache, cough, dyspnea, other pulmonary effects, hyper-motility, diarrhea, nausea or vomiting, and other gastrointestinal effects.

### Potential Health Effects:

No applicable information found.

### Routes of Entry:

Inhalation, ingestion or skin contact.

### Carcinogenicity:

The material is not listed (IARC, NTP, OSHA) as cancer causing agent.

## Section 4 - First Aid Measures

### First Aid Procedures:

GET MEDICAL ASSISTANCE FOR ALL CASES OF OVEREXPOSURE.

Skin: Immediately flush thoroughly with large amounts of water.

Eyes: Immediately flush thoroughly with water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers.

Inhalation: Remove to fresh air; give artificial respiration if breathing has stopped. Contact a physician

Ingestion: If conscious, drink water and induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person.

Remove contaminated clothing and wash before reuse.

## Section 5 - Fire Fighting Measures

### Fire fighting measures for the Compound

#### Flammable Properties:

Flash Point (°F):	N/A
Flammable Limits LEL (%):	N/A
Flammable Limits UEL (%):	N/A

Thermal decomposition produces toxic fumes.

#### Extinguishing Media:

Use water spray, dry chemical, CO<sub>2</sub>, or "alcohol" foam.

#### Protection of Firefighters:

Wear self-contained breathing apparatus and protective clothing.

## Section 6 - Accidental Release Measures

#### Spill Response:

Wear suitable protective equipment listed under Expose /Personal Protection. Eliminate any ignition sources until the area is determined to be free from explosion or fire hazards. Contain the release and eliminate its source, if this can be done without risk. Dispose as hazardous waste. Comply with Federal, State and local regulations.

## Section 7 - Handling and Storage

- Keep container closed.
- Store in a cool area away from ignition sources and oxidizers.
- Do not breathe vapor.
- Do not get in eyes, on skin, or on clothing.

## Section 8 - Exposure Controls / Personal Protection

#### Personal Protection Equipment (PPE):

Respiratory Protection: If workplace exposure limit(s) of product or any component is exceeded (see TLV/PEL), a NIOSH/MSHA approved air supplied respirator is advised in absence of proper environmental control. OSHA regulations also permit other NIOSH/MSHA respirators (negative pressure type) under specified conditions (see your safety equipment supplier). Engineering and/or administrative controls should be implemented to reduce exposure.

Material should be handled or transferred in an approved fume hood or with adequate ventilation.

Protective gloves must be worn to prevent skin contact.

(Butyl Rubber, Viton or equivalent)

Safety glasses with side shields must be worn at all times.

#### General Hygiene Considerations:

Wash thoroughly after handling. Do not take internally. Eye wash and safety equipment should be readily available.

## Section 9 - Physical and Chemical Properties

### Physical and chemical properties for the Compound

Appearance: White solid powder  
Boiling Point: N/A  
Melting Point: N/A  
Specific Gravity (Water = 1): N/A  
Vapor Pressure: N/A  
Vapor Density (Air = 1): N/A  
Percent Volatile (by volume): N/A  
Evaporation Rate (Butyl acetate = 1): N/A  
Flash Point: N/A  
Explosion Limits (%): N/A to N/A  
Solubility in water (%): Soluble

## Section 10 - Stability and Reactivity

### Stability and reactivity for the Compound

Stability: Stable  
Materials to Avoid: Oxidizers  
Hazardous Decomposition: Oxides of carbon  
Hazardous Polymerization: Does not occur  
Conditions to Avoid: None indicated

## Section 11 - Toxicological Information

See section 3 for specific toxicological information for the ingredients of this product.

## Section 12 - Ecological Information

By complying with sections 6 and 7 there will be no release to the environment.

### Section 13 - Disposal Considerations

Recycle or incinerate at any EPA approved facility or dispose in compliance with Federal, State and local regulations. Empty containers must be triple-rinsed prior to disposal.

### Section 14 - Transport Information

DOT Shipping Class: 6.1 Packing Group: III UN Number: UN2588

### Section 15 - Regulatory Information

In addition to Federal and state regulations, local regulations may apply. Check with your local regulatory authorities.

The following regulations apply:

The CAS number of this product is NOT listed on the TSCA Inventory. For reasearch and development use only. Not for manufacturing or commercial purposes.

### Section 16 - Other Information

This document has been designed to meet the requirements of OSHA, ANSI and CHIPs regulations.

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