

**Fisher Science Education**

A Fisher Scientific Company

485 South Frontage Road • Burr Ridge, IL 60521
Tel. 1-800-955-1177 • Fax 1-800-955-0740 • fisheredu.com**IMPORTANT**
MATERIAL SAFETY DATA SHEETREAD CAREFULLY BEFORE USING CHEMICAL
OSHA requires that this form be kept on file.**Product No.** S71318**Product Name** METHYLENE BLUE

POWDER

24 HOUR EMERGENCY ASSISTANCE**CHEMTREC 800-424-9300****HAZARD RATING**4-EXTREME
3-SEVERE
2-MODERATE
1-SLIGHT
0-MINIMAL

Health Hazard	1
Flammability	0
Reactivity	0

SECTION I NAME**Chemical Synonyms** Basic Blue 9**Formula** $C_{16}H_{18}ClN_3S \cdot 3H_2O$ **C.A.S. No.** 61-73-4**SECTION II HAZARDOUS INGREDIENTS OF MIXTURES**

Principal Hazardous Component(s)	%	P.E.L.	TLV Units
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N/A

★ chemical subject to the reporting requirements of SARA Title III.

SECTION III PHYSICAL DATA

Melting Point (°F)	374°F decomposes	Specific Gravity (H ₂ O=1)	No information found.
Boiling Point (°F)	N/A	Percent Volatile by Volume (%)	N/A
Vapor Pressure (mm Hg)	N/A	Evaporation Rate (=1)	N/A
Vapor Density (Air=1)	N/A		
Solubility in Water	1 gm in 25 ml water		
Appearance & Odor	Dark green crystals, odorless.		

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	N/A	Flammable Limits in Air % by Volume	Lower	Upper
			N/A	N/A
Extinguisher Media	Water spray, dry chemical, alcohol foam or carbon dioxide.			

Special Firefighting Procedures

In the event of a fire, wear full protective clothing and NIOSH - approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

Unusual Fire and Explosion Hazards

As with most organic solids, fire is possible at elevated temperatures or by contact with an ignition source. Fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.

SECTION V HEALTH HAZARD DATA**Threshold Limit Value**

None Established

Effects of Overexposure

Harmful if swallowed. Well absorbed in man after oral administration. Hemolytic anemia has occurred after excessive doses. May cause skin irritation. Causes severe eye irritation.

Emergency and First Aid Procedures

Call a physician. **INHALATION:** Remove to fresh air. Get medical attention for any breathing difficulty. **INGESTION:** If conscious induce vomiting. **SKIN:** Wash with soap and water. **EYES:** Flush with plenty of water for at least 15 minutes. Call a physician.

SECTION VI REACTIVITY DATA

Stability	Conditions to Avoid
Stable <input checked="" type="checkbox"/> Unstable <input type="checkbox"/>	N/A
Incompatibility (Materials to Avoid)	Caustic alkali, dichromates, alkali iodides, reducing agents.
Hazardous Decomposition Products	May emit oxides of carbon, oxides of sulfur, oxides of nitrogen, and hydrogen chloride gas when heated to decomposition.
Hazardous Polymerization	Conditions to Avoid
May Occur <input type="checkbox"/> Will Not Occur <input checked="" type="checkbox"/>	N/A

SECTION VII SPILL OR LEAK PROCEDURES**Steps to be Taken in Case Material is Released or Spilled**

Remove sources of ignition. Ventilate area. Pick up spill using non-sparking tools in a manner that does not disperse dust into the air. Place in a closed container for disposal.

Waste Disposal Method

Discharge, treatment, or disposal may be subject to Federal, State or Local laws. These disposal guidelines are intended for the disposal of catalog-size quantities only.

Whatever cannot be saved for recovery may be burned in an approved incinerator or disposed in an approved waste facility.

SECTION VIII SPECIAL PROTECTION INFORMATION

Respiration Protection (Specify Type)	NIOSH-approved dust/mist respirator.		
Ventilation	Local Exhaust	X	Special
	Mechanical (General)		Other
Protective Gloves	Gloves	Eye Protection	Safety Goggles
Other Protective Equipment	Lab coat. Maintain eye wash and shower.		

SECTION IX SPECIAL PRECAUTIONS**Precautions to be Taken in Handling & Storing**

Keep container tightly closed when not in use.

Store in a cool, dry, ventilated area. Protect against physical damage. Isolate from incompatible substances.

Other Precautions

Read label on container before using. Do not wear contact lenses when working with chemicals.

N/A

Approved by Steven C. Quandt**Effective Date** 05/31/2001

For laboratory use only. Not for drug, food or household use. Keep out of reach of children.

D.O.T. Not Regulated

Approved by U.S. Department of Labor, essentially identical to form OSHA 101-106