

Section 1: Identification

Product Name Methylene Blue USP
Commercial Name Not available.
Product Use Not available
Restrictions On Use Not available

Product Code 30-1115

Company PCCA
9901 South Wilcrest
Houston, TX 77099
Phone: 1-800-331-2498
Fax: 1-800-874-5760

In case of emergency contact:
CHEMTREC (24hr) 1-800-424-9300

Section 2: Hazard(s) Identification

OSHA Haz Com: GHS Classification: Acute toxicity, Oral (Category 4) Skin irritation (Category 2) Eye irritation (Category 2A)
CFR 1910.1200 Specific target organ toxicity - single exposure (Category 3)
Signal Word WARNING

Hazard Statement(s) Harmful if swallowed. Causes skin irritation. Causes serious eye irritation . May cause respiratory irritation
Pictogram(s) or Symbol(s)


Precautionary Statement(s):

Prevention	Avoid breathing dust/fume/gas/mist/vapours/spray. Wash skin thoroughly after handling. Do not eat, drink or smoke when using this products. Use only outdoors or in a well ventiated area. Wear protective gloves/ye protection/face protection.
Response	IF SWALLOWED call a POISON CENTER or doctor/Physician if you feel unwell. IF ON SKIN: wash with plenty of soap and water. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if prsent and easy to do. Continue rinsing
Storage	Keep away from heat and falme. Store in a cool, dry place. Keep containers tightly closed and in a ventilated area. Containers of this material may be hazardous when empty since they retain product resisdues (dust, solids).
Disposal	Not available

Section 3: Composition/Information on Ingredients

Substance/Mixture Substance
Components Methylene blue chloride
% By Weight 100
CAS# 122965-43-9
Molecular Weight 373.89 g/mole
Chemical Formula C16H18N3S.CLXH2O
Synonym(s) Not available.

Mixtures

Name	CAS#	% by Weight	TLV/PEL	LC50/LD50
Methylene Blue	122965-43-9	100	Not available.	Not available.

Section 4: First-Aid Measures

Inhalation	If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Call a physician if symptoms develop or persist.
Skin Contact	Rinse skin with water/shower. Get medical attention if irritation develops and persists
Eye Contact	Rinse with water. Get medical attention if irritation develops and persists
Ingestion	Rinse mouth. If ingestion of a large amount does occur, call a poison control center immediately
Symptoms/Effects	
Acute	Irritation of eyes and mucous membranes
Delayed	Irritation of eyes and mucous membranes

Immediate Medical Attention

Indication of immediate Provide general supportive measures and treat symptomatically. For medical attention and hypotension, infuse 10- 20mL/kg isotonic fluid. Administer dopamine or special treatment needed norepinephrine if hypotension persists. For seizures, administer benzodiazepine intravenously. Administer oxygen to cyanotic patients. In severe cases, treatment with hyperbaric oxygen and exchange transfusion may be necessary. Manage airway. (Poisindex) General Information: Remove from exposure. Remove contaminated clothing. For treatment advice, seek guidance from an occupational health physician or other licensed health-care provider familiar with workplace chemical exposures. In the United States, the national poison control center phone number is 1- 800-222-1222. If person is not breathing, give artificial respiration. If breathing is difficult, give oxygen if available. Persons developing serious hypersensitivity (anaphylactic) reactions must receive immediate medical attention. General Advice: If symptoms persist, call a physician

Section 5: Fire-Fighting Measures**Suitable Extinguishing Media**

Water spray, dry chemical, carbon dioxide, or foam as appropriate for surrounding fire and materials.

Unsuitable Extinguishing Media

Not available.

Products of Combustion

No unusual fire or explosion hazards noted.

Firefighters Special Equipment and Precautions

As with all fires, evacuate personnel to a safe area. Fire-fighters should use self-contained breathing equipment and protective clothing. Cool containers exposed to flames with water until well after the fire is out.

Section 6: Accidental Release Measures

Personal precautions or protective equipment and emergency procedures: Keep unnecessary personnel away. Do not touch damaged containers spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Avoid inhalation of dust from the spilled material. Wear appropriate personal protective equipment Methods and materials for containment and cleaning up: Sweep up or vacuum up spillage and collect in suitable container for disposal. Avoid the generation of dusts during clean-up. For waste disposal, see section 13 of the SDS. Wash spill site.

Section 7: Handling and Storage

Handling: Wear personal protective equipment. Ensure adequate ventilation. Avoid dust formation. Do not get in eyes, or skin, or on clothing. Avoid ingestion and inhalation Storage: Keep container dry. Keep in a cool place. Ground all equipment material. Keep container tightly closed. Keep in a cool, well ventilated place

Section 8: Exposure Controls/Personal Protection

Exposure Limits No OSHA Vacated PELs are listed for this chemical.

Engineering Controls

Airborne exposure should be controlled primarily by engineering controls such as general dilutionventilation, local exhaust ventilation, or process enclosure. Local exhaust ventilation is generallypreferred to general exhaust because it can control the contaminant at its source, preventingdispersion into the work area. An industrial hygiene survey involving air monitoring may be usedto determine the effectiveness of engineering controls. Effectiveness of engineering controlsintended for use with highly potent materials should be assessed by use of nontoxic surrogatematerials.Local exhaust ventilation such as a laboratory fume hood or other vented enclosure isrecommended, particularly for grinding, crushing, weighing, or other dust-generating procedures

Personal Protection

Personal Protection: Splash goggles, Lab coat, Dust respirator, be sure to use an approved/certified respirator or equivalent, Gloves Individual protection measures, such as personal protective equipment eye/face protection: Safety glasses with sideshields are recommended. Face shields or goggles may be required if splash potential exists or if corrosive materials are present.Approved eye protection (e.g., bearingthe ANSI Z87 or CSA stamp) is preferred. Maintain eyewash facilities in the work area. Skin and hand protection: Chemically compatible gloves. For handling solutions, ensure that the glove material isprotectiveagainst the solvent being used. Use handling practices that minimize direct hand contact.Employees who are sensitive to natural rubber (latex) should use nitrile or other synthetic nonlatexgloves. Use of powdered latex gloves should be avoided due to the risk of latex allergy. Other For handling of laboratory scale quantities, a cloth lab coat is recommended. Where significantquantities are handled, work clothing may be necessary to prevent take-home contamination. Respiratory protection No protective equipment is needed under normal use condition Thermal hazards Not available General hygiene Handle in accordance with good industrial hygiene and safety practice.

Section 9: Physical and Chemical Properties

Appearance	Dark green solid crystalline powder.		
Odor	Odorless or slight odor		
Odor Threshold	Not available		
Melting Point	Not available	pH	Not available
Freezing Point	Not available	Vapor Pressure	Negligible
Boiling Point/Range	Decomposes.	Vapor Density	Not available.
Decomposition temperature	190C	Viscosity	Not available.
Partition Coefficient: n-octanol/water	Not available	Evaporation Rate	Not available
Flash Point	Not available.	Autoignition temperature	No data available
Flammability	Not available	Flammability or Explosive Limits:	
		Lower	Not available
		Upper	Not available
Solubility(ies)	Soluble in chloroform; sparingly soluble in alcohol		
Other	Not available.		

Section 10: Stability and Reactivity

Reactivity	No reactivity hazards known
Chemical Stability	Stable at normal conditions.
Hazardous Polymerization	No dangerous reaction known under conditions of normal use.
Conditions to Avoid	None known.
Incompatible Materials	Strong oxidizing agents.
Hazardous Decomposition Products	Hazardous polymerization does not occur

Section 11: Toxicological Information
RTECS SO5600000

Acute Toxicity
N/A

Skin Corrosion/Irritation
Due to lack of data the classification is not found

Serious Eye Damage/Irritation
Causes serious eye irritation

Respiratory or Skin Sensitization
Due to lack of data the classification is not possible.

Germ Cell Mutagenicity
Based on available data, the classification criteria are not met. Results of genotoxicity tests in vivo were negative. Results of genotoxicity tests in arepositive

Carcinogenicity
Based on available data, the classification criteria are not met. This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

Reproductive Toxicity
No information available

Routes of Entry
Eye contact, Inhalation, Ingestion



Safety Data Sheet

For Compliance with OSHA 29 CFR 1910.1200 and ANSI Z400.1-1998

Methylene Blue USP

30-1115

Symptoms Related to Exposure

Not available

Potential Health Effects

Not available

Target Organ(s)

Not available

Section 12: Ecological Information

Ecotoxicity

Do not empty into drains.

Persistence and Degradability

No data is available on the degradability of this product.

Bioaccumulative Potential

Not available

Mobility in Soil

Not available

Other Adverse Effects

Not available

Section 13: Disposal Considerations

Waste Disposal

This product, in its present state, when discarded or disposed of, is not a hazardous waste according to Federal regulations (40 CFR 261.4 (b)(4)). Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the product meets RCRA criteria for hazardous waste. Dispose of contents/container in accordance with local/regional/national/international regulations.

Disposal of Container

Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions)

Other Considerations

Contaminated packaging: Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

Section 14: Transport Information

DOT Classification

Not regulated

Section 15: Regulatory Information

Regulations

Federal And State Regulation other federal regulations: TSCA 12(b) inventory: No products were found. Safe Drinking Water Act (SDWA): Not regulated. Food and Drug Administration (FDA): Not regulated. SARA 313: Not Applicable CWA (Clean water act) : Not Applicable Clean air duct: Not Applicable OSHA : Not Applicable

Other

Not available.

Section 16: Other Information

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes.