

MATERIAL SAFETY DATA SHEET

Version :01

PRODUCT NAME: METHYLENE BLUE (TRIHYDRATE) STAIN POWDER

CAS Number: 7220-79-3

1. IDENTIFICATION:

Product Code : 91772

Company Name : ADVENT CHEMBIO PRIVATE LIMITED

Address : W-279, MIDC, TTC INDUSTRIAL AREA, THANE-BELAPUR ROAD, RABALE,
NAVI MUMBAI - 400 701.

E-mail : sales@adventchembio.com

WEBSITE : www.adventchembio.com

Company Phone Number : 022-27690837

2. HAZARDS IDENTIFICATION:**Hazard classification****Health hazards**

Acute toxicity, Oral : Category 4

Labels elements :

Hazard symbol : 

Signal word : Warning

Hazard statement : Wash skin thoroughly after handling.
: Do not eat, drink or smoke when using this product.
IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell.

Precautionary statement

Prevention : Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Wear protective gloves/ protective clothing/ eye protection/ face protection.
Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.
Keep container tightly closed. Ground/ bond container and receiving equipment.
Use explosion-proof electrical/ ventilating/ lighting/ equipment.
Use only non-sparking tools. Take precautionary measures against static discharge.

Response : IF exposed or concerned: Get medical advice/ attention.
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/
shower.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if
present and easy to do. Continue rinsing.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

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

Disposal : Dispose of contents/container to an appropriate treatment and disposal facility in
accordance with applicable laws and regulations, and product characteristics at time of



MATERIAL SAFETY DATA SHEET

Version :01

PRODUCT NAME: METHYLENE BLUE (TRIHYDRATE) STAIN POWDER

CAS Number: 7220-79-3

disposal.

Other hazards which do not result in GHS classification : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

3. COMPOSITION/ INFORMATION ON INGREDIENTS:

Ingredient	CAS Number	Dye Content	Hazardous
Methylene Blue (Trihydrate) Stain Powder	7220-79-3	NLT 85.0%	No

4. FIRST AID MEASURES:

General information : Get medical advice/attention if you feel unwell. Show this safety data sheet to the doctor in attendance.

Ingestion : Call a physician or poison control center immediately. Rinse mouth. Do NOT induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

Inhalation : Move to fresh air. Call a physician or poison control center immediately. If breathing stops, provide artificial respiration. If breathing is difficult, give oxygen.

Skin contact : Get medical attention if symptoms persist.

Eye contact : Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention.

Most important symptoms/effects, acute and delayed : The most important known symptoms and effects are described in the labelling.

Indication of immediate medical attention and special treatment needed : No data available.

5. FIRE FIGHTING MEASURES:

General information :

Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Water spray, foam, dry powder or carbon dioxide.

Unsuitable extinguishing media : For this substance/mixture no limitations of extinguishing agents are given.

Specific hazards arising from the chemical : Combustible.

Special protective equipment and precautions for firefighters : **Fire may cause evolution of:** nitrogen oxides, Sulfur oxides, Hydrogen chloride gas
Development of hazardous combustion gases or vapors possible in the event of fire.

Special firefighting procedures : Use water spray to keep fire-exposed containers cool. Water may be ineffective in fighting the fire. Fight fire from a protected location. Move containers from fire area if you can do so

MATERIAL SAFETY DATA SHEET

Version :01

PRODUCT NAME: METHYLENE BLUE (TRIHYDRATE) STAIN POWDER

CAS Number: 7220-79-3

without risk.

Special protective equipment for fire-fighters : Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

6. ACCIDENTAL RELEASE MEASURES:

Personal precautions, protective equipment and emergency procedures : Advice for non-emergency personnel: Avoid inhalation of dusts. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert.

Methods and material for containment and cleaning up : Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions. Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.

Notification Procedures : Prevent entry into waterways, sewer, basements or confined areas. Inform authorities if large amounts are involved.

Environmental precautions : Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

7. HANDLING AND STORAGE:

Precautions for safe handling : Do not handle until all safety precautions have been read and understood. Take precautionary measures against static discharges. Use only non-sparking tools. Wear protective gloves/protective clothing/eye protection/ face protection. Avoid contact with eyes, skin, and clothing. Do not breathe mist or vapor. Use only with adequate ventilation. Wash hands thoroughly after handling.

Conditions for safe storage, including any incompatibilities : Keep away from food, drink and animal feeding stuffs.
: Keep container tightly closed in a dry, well-ventilated place.

8. EXPOSURE CONTROLS PERSONAL PROTECTION:**Control parameters**

Appropriate engineering controls : No data available

Individual protection measures, such as personal protective equipment

General information : Ventilation rates should be matched to conditions. An eye wash and safety shower must be available in the immediate work area. Use explosion-proof ventilation equipment.

Eye/face protection : Wear safety glasses with side shields (or goggles).

Hand protection : Chemical resistant gloves.

Other : Wear suitable protective clothing.

Respiratory protection : Required when dusts are generated.

Hygiene measures : Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and

MATERIAL SAFETY DATA SHEET

Version :01

PRODUCT NAME: METHYLENE BLUE (TRIHYDRATE) STAIN POWDER

CAS Number: 7220-79-3

protective equipment to remove contaminants. Provide eyewash station and safety shower.
Avoid contact with eyes, skin, and clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES:

Appearance	:	Dark green fine crystalline powder.
Odor	:	No data available
Solubility	:	Solution of 0.1 g in 100 ml of water is clear.
Formula	:	C ₁₆ H ₁₈ ClN ₃ S .3H ₂ O
Molecular Weight	:	373.91 g/mol
Specific Gravity	:	No data available
pH	:	No data available
% Volatiles by volume @ 21C (70F)	:	No data available
Boiling Point	:	No data available
Melting Point	:	190°C
Flash Point	:	No data available
Vapor Density (Air=1)	:	No data available
Vapor Pressure (mm Hg)	:	No data available
Evaporation Rate (BuAc=1)	:	No data available

10. STABILITY AND REACTIVITY:

Reactivity	:	The following applies in general to flammable organic substances and mixtures: in correspondingly fine distribution, when whirled up a dust explosion potential may generally be assumed.
Chemical stability	:	Material is stable under ambient conditions..
Possibility of hazardous reactions	:	Violent reactions possible with: strong oxidising agents
Conditions to avoid	:	No data available
Incompatible materials	:	No data available
Hazardous decomposition products	:	In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION:**Information on toxicological effects****Acute toxicity (list all possible routes of exposure)**

MATERIAL SAFETY DATA SHEET

Version :01

PRODUCT NAME: METHYLENE BLUE (TRIHYDRATE) STAIN POWDER

CAS Number: 7220-79-3

Oral Product	:	Harmful if swallowed.
Dermal Product	:	No data available
Inhalation Product	:	No data available.
Repeated dose toxicity Product	:	No data available.
Skin corrosion/irritation Product	:	No data available
Serious eye damage/eye irritation Product	:	No data available
Respiratory or skin sensitization Product	:	No data available
Carcinogenicity Product	:	No data available
IARC Monographs on the Evaluation of Carcinogenic Risks to Humans	:	No data available
US. National Toxicology Program (NTP) Report on Carcinogens	:	No data available
US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050 Germ cell mutagenicity)	:	No data available
In vitro Product	:	No data available.
Reproductive toxicity Product	:	No data available
Specific target organ toxicity - single exposure Product	:	No data available
Specific target organ toxicity - repeated exposure Product	:	No data available
Aspiration hazard Product	:	No data available
Other effects	:	No data available

12. ECOLOGICAL INFORMATION:**Ecotoxicity****Acute hazards to the aquatic environment****Fish Product** : No data available**Aquatic invertebrates Product** : No data available

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: METHYLENE BLUE (TRIHYDRATE) STAIN POWDER

CAS Number: 7220-79-3

Chronic hazards to the aquatic environment

- Fish Product** : No data available.
- Aquatic invertebrates Product** : No data available.
- Toxicity to Aquatic Plants Product:** : No data available.
- Persistence and degradability**
- Biodegradation Product** : No data available
- BOD/COD ratio Product** : No data available.
- Bioaccumulative potential**
- Bioconcentration factor (BCF) Product** : No data available on bioaccumulation.
- Partition coefficient n-octanol / water (log Kow) Product** : No data available.
- Mobility in soil** : No data available
- Other adverse effects** : No data available

13. DISPOSAL CONSIDERATION:

- Disposal instructions** : Discharge, treatment, or disposal may be subject to national, state, or local laws. Disposal recommendations are based on uncontaminated material.
- Contaminated packaging** : Since emptied containers retain product residue, follow label warnings even after container is emptied.

14. TRANSPORT INFORMATION:

	UN No.	UN proper shipping name	Hazard Class(es)	Packaging group	Marine Pollutant
DOT		Methylene Blue (Trihydrate) Stain Powder		Not dangerous goods	
IMDG		Methylene Blue (Trihydrate) Stain Powder		Not dangerous goods	
IATA		Methylene Blue (Trihydrate) Stain Powder		Not dangerous goods	

15. REGULATORY INFORMATION:

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006. Safety, health and environmental regulations/legislation specific for the substance or mixture
No Data Available.

MATERIAL SAFETY DATA SHEET

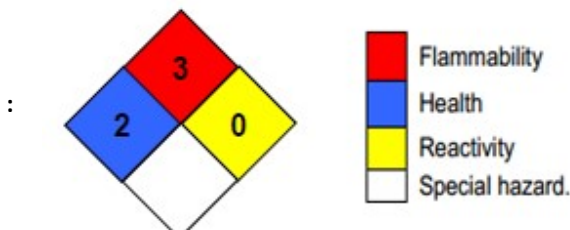
Version :01

PRODUCT NAME: METHYLENE BLUE (TRIHYDRATE) STAIN POWDER

CAS Number: 7220-79-3

16. OTHER INFORMATION:

NFPA Hazard ID



Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe

Issue Date : 11/09/2023

Version : 01

Disclaimer: This Material Safety Data Sheet (MSDS) is for guidance and is based upon information and tests believed to be reliable. ADVENT CHEMBIO PRIVATE LIMITED makes no guarantee of the accuracy or completeness of the data and shall not be liable for any damages relating thereto. The data is offered solely for your consideration, investigation, and verification. The data should not be confused with local, state, federal or insurance mandates, regulations, or requirements and CONSTITUTE NO WARRANTY. Any use of this data and information must be determined by the technical instructor in accordance with applicable local, state or federal laws and regulations. The conditions or methods of handling, storage, use and disposal of the product(s) described are beyond the control of ADVENT CHEMBIO PRIVATE LIMITED and may be beyond our knowledge. FOR THIS AND OTHER REASONS, WE DO NOT ASSUME RESPONSIBILITY AND EXPRESSLY DISCLAIM LIABILITY FOR LOSS, DAMAGE OR EXPENSE ARISING OUT OF OR IN ANY WAY CONNECTED WITH THE HANDLING, STORAGE, USE OR DISPOSAL OF THIS PRODUCT(S).