Safety Data Sheet

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Ethyl viologen dibromide
Catalog Number: X186671
CAS Number: 53721-12-3

FOR R&D use only

Supplier: AChemBlock(Advanced ChemBlocks Inc), 26120 Eden Landing Rd, Suite 1 Hayward, CA 94545, USA. Tel: (650) 692 2368

2. HAZARDS IDENTIFICATION

GHS Classification

Skin corrosion/irritation (Category 2)
Serious eye damage/eye irritation (Category 2A)
Specific target organ toxicity-single exposure(Category 3),Respiratory system

GHS Label elements, including precautionary Statements

Pictogram:



Signal Word: Warning

Hazard statement(s):

H315	Causes skin irritation
H319	Causes serious eye irritation
H335	May cause respiratory irritation

Precautionary Statement(s):

P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P305+351+338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P302+352	IF ON SKIN: wash with plenty of soap and water.

3. COMPOSITION, INFORMATION ON INGREDIENTS

Ingredient name: Ethyl viologen dibromide
CAS number: 53721-12-3
Molecular Formula: $C_{14}H_{18}Br_2N_2$
Molecular Weight: 374.12

4. FIRST AID MEASURES

In case of eye contact:
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If inhaled:
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin Contact:
Wash off with soap and plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Call a physician.

If swallowed:
Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

5. FIREFIGHTING MEASURES

Suitable extinguishing media:
Use carbon dioxide, dry chemical powder, alcohol-resistant or polymer foam.

Special protective equipment for firefighters:
Wear self-contained breathing apparatus for fire-fighting if necessary.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:
Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

Environmental precautions:
Do not let product enter drains.

Methods and Materials for containment and cleaning up:
Absorb spills on sand or vermiculite and place in closed container for disposal

7. HANDLING AND STORAGE

Precautions for safe handing:
Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Wash thoroughly after handling.

Conditions for safe storage:
Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Recommended storage temperature:
Store at Room Tem.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Contains no substances with occupational exposure limit values.

Engineering Controls:
Use only in a chemical fume hood.

Personal Protective equipment:
Wear chemical-resistant gloves, safety googles.

General Hygiene measures:
Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly after handling. Wash contaminated clothing before reuse.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:
Odor:
Boiling Point:
Melting Point:
Flash Point:
Density:

10. STABILITY AND REACTIVITY

Chemical stability:
Materials to avoid: Heat, Flame and sparks
Conditions to avoid: strong oxidizer; strong acid
Possible hazardous combustion products: Not Available

11. Toxicological information

No Data.

12. ECOLOGICAL INFORMATION

No Data.

13. DISPOSAL CONSIDERAIONS

Arrange disposal as special waste, by licensed disposal company, in consultation with local waste disposal authority, in accordance with national and regional regulations.

14. Transportation information

Non-hazardous for air and ground transportation. Or not available.

15. Regulatory Information

Indication of danger:	No data
Risk Statement:	No data
Safety Statement:	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable gloves and eye/face protection.

16. Other information

Revision:	2.
Revision Date:	2024-01-01

The above information is believed to be correct at the date of its publication but does not supposed to be all-inclusive and shall be used only as a guide.

Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose.

AChemBlock(Advanced ChemBlocks Inc) should not be held liable for any damage resulting from handling or from contact with the above product.