

Material Safety Data Sheet

- Cat No. W3202
- EtBr Solution

1. PRODUCT AND COMPANY IDENTIFICATION

COMPANY :

Wizbiosolutions

A-1806 Woolim Lions Valley 2, Sagimakgol-ro 45beon-gil 14, Jungwon-gu, Seongnam, 13209 South KOREA

FOR INFORMATION CALL +82-70-7605-5066

EMERGENCY NUMBER +82-70-7605-5066

2. COMPOSITION, INFORMATION ON INGREDIENTS

Chemical Name

Component	%	CAS#
1.Ethidium bromide	>5%	1239-45-8

Other components: Components not listed here are not hazardous or their concentrations do not exceed the limits specified in the OSHA Hazard Communication Standard 29 CFR 1910.1200.

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

Caution: Avoid contact and inhalation

HMIS RATING:

HEALTH:	2
FLAMMABILITY:	1
BODY CONTACT	3
REACTIVITY:	1
CHRONIC	3

NFPA RATING:

Potential Acute Health Effects:

Hazardous in case of ingestion. Slightly hazardous in case of skin contact (irritant), of eye contact (irritant), of inhalation.

Potential Chronic Health Effects:

Hazardous in case of ingestion. Slightly hazardous in case of skin contact (irritant), of eye contact (irritant), of inhalation.

CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS:

Not available. TERATOGENIC EFFECTS: Not available.

DEVELOPMENTAL TOXICITY: Not available

4. FIRST AID MEASURES

Eye Contact: Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Cold water may be used.

Skin Contact: After contact with skin, wash immediately with plenty of water. Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Be particularly careful to clean folds, crevices, creases and groin. Cold water may be used. Cover the irritated skin with an emollient. If irritation persists, seek medical attention. Wash contaminated clothing before reusing.

Serious Skin Contact: Not available.

Inhalation: Allow the victim to rest in a well ventilated area.

Seek immediate medical attention.

Serious Inhalation: Not available.

Ingestion: Do not induce vomiting. Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek immediate medical attention.

Serious Ingestion: Not available.

5. FIRE FIGHTING MEASURES

General Information

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.

Extinguishing Media

Water spray, Carbon Dioxide, dry chemical powder or appropriate foam

Flammable Properties

Flash Point: NA

Flash Point Method: NA

Autoignition Temperature: NA

Upper Explosion Limit: NA

Lower Explosion Limit: NA

6. ACCIDENTAL RELEASE MEASURES

General Information

Use proper personal protective equipment as indicated in Section 8.

7. HANDLING AND STORAGE

Handling: Avoid contact with eyes, skin and clothing.

Avoid prolonged or repeated exposure.

User Exposure: Avoid Inhalation.

Use personal protective equipment (i.e. impermeable gloves, lab coat or apron)

Storage: Keep tightly closed.

Store at -20°F (do not store at -80°C)

8. ENGINEERING CONTROLS/PERSONAL PROTECTION

Respiratory: A protective dust mask is advisable to avoid breathing particulates when a powdered form of the product is being handled. Wear an appropriate respirator

Mechanical (General): Vent Fan

Ventilation: Advisable

Local Exhaust: As Required

Hand: Compatible impermeable gloves to prevent skin contact.

Eye: Chemical safety goggles or splash guard safety glasses.

Other Protective Clothing or Equipment: Sensitive individuals should wear dust masks/respirators, protective gloves, eye protection, lab coat, apron or other protective clothing to minimize contact.

General Hygiene Measures: Wash hands thoroughly after handling.

Wash contaminated clothing (lab coat/apron) before using again.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State-Appearance: Liquid, Dark red

Odor: NA

pH: NA

Vapor Density: NA

Evaporation Rate: NA

Boiling Point: NA

Freezing/Melting Point: NA

Solubility in Water: NA

Specific Gravity: NA

10. STABILITY AND REACTIVITY

Storage Stability: Stable under recommended storage conditions.

Materials to avoid: Strong oxidizing agents.

Hazardous decomposition products:

Hazardous decomposition products formed under fire conditions: Carbon oxides, nitrogen oxides.

11. TOXICOLOGICAL INFORMATION

Toxicity : Ethidium Bromide: LC50 (inhalation, rat): 0.0118 - 0.1340 mg/L/6H. LD50 (oral,rat): 1503 mg/kg., By mists determined to be toxic based on: LC50 (inhalation rat) 0.0472mg/L/1H * 100 (dilution rate)=approximately 4.72mg/L/1H. RTECS#ZC0110000.

Epidemiology: No information found

Teratogenicity: No information found

Reproductive Effects: No information found

Mutagenicity: Possible mutagenic effect in humans. Mutagenic in bacteria (Ames Test) with high exposure.

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Neurotoxicity: No information found

12. ECOLOGICAL INFORMATION

Data Not Yet Available

13. DISPOSAL CONSIDERATIONS

Contact a licensed professional waste disposal service to dispose of this material.

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste.

US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3.

Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

14. TRANSPORT INFORMATION

US DOT : Non-hazardous for Transport: This substance is considered to be nonhazardous for transport

Required Label Description: None (not regulated)

15. OTHER INFORMATION

MSDS Creation Date: July 17, 2020

DISCLAIMER

For research use only. Not for drug, household or other uses. Not for use in humans or in the treatment of diseases in animals. The information contained in this MSDS relates only to the material(s) designated and does not relate to use(s) in combination with any other material, process(es) and/or chemical reaction(s). This information is provided in good faith, from sources believed to be accurate; however, Nature Technology Corporation assumes no liability for its accuracy or completeness.