



MATERIAL SAFETY DATA SHEET

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1- Chemical Product Information and Company Identification.

Product Name: : 1,2-Dibromoethane GC Reference standard, AnStan®.

Synonym: : Ethylene Bromide.

Product code: : BS14417.

CAS Number: : 106-93-4.

Company Name: : Briti Scientific.

Company Address: : Plot No:78/B/13, SY-79, Phase-VI, Jeedimetla, Hyderabad-500 055.

Telangana, India.

<u>Section 2- Composition / Information on Ingredients.</u>

CAS No.Chemical NameMol. Formula106-93-4.Ethylene Bromide.C2H4Br2.

Section 3- Hazards Identification.

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute oral toxicity Category 3

Acute dermal toxicity Category 3

Skin Corrosion/Irritation Category 2

Serious Eye Damage/Eye Irritation Category 2

Carcinogenicity Category 1B

Specific target organ toxicity (single exposure) Category 3

Target Organs - Respiratory system.

Label Elements

Signal Word

Danger

Hazard Statements

Causes skin irritation

Causes serious eye irritation

May cause respiratory irritation

May cause cancer

Toxic if swallowed or in contact with skin















Precautionary Statements

Prevention

Obtain special instructions before use

Do not handle until all safety precautions have been read and understood

Use personal protective equipment as required

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Wear eye/face protection

Avoid breathing dust/fume/gas/mist/vapors/spray

Use only outdoors or in a well-ventilated area

Response

IF exposed or concerned: Get medical attention/advice

Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Skin

IF ON SKIN: Wash with plenty of soap and water

Call a POISON CENTER or doctor/physician if you feel unwell

Remove/Take off immediately all contaminated clothing

Wash contaminated clothing before reuse

If skin irritation occurs: Get medical advice/attention

Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If eye irritation persists: Get medical advice/attention Ingestion

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician

Rinse mouth

Storage

Store locked up

Store in a well-ventilated place. Keep container tightly closed

Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Toxic to aquatic life with long lasting effects











Section 4- First Aid Measures.

General Advice: If symptoms persist, call a physician

Eye Contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention if symptoms occur.

Skin Contact: Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Immediate medical attention is required.

Inhalation: Remove from exposure, lie down. Remove to fresh air. If not breathing, give artificial respiration. Immediate medical attention is required

Ingestion: Call a physician immediately. Clean mouth with water

Most important symptoms and effects: Symptoms of overexposure may be headache, dizziness,

tiredness, nausea and vomiting

Notes to Physician: Treat symptomatically

Section 5- Fire Fighting Measures.

Suitable Extinguishing Media: Water spray. Carbon dioxide (CO 2). Dry chemical. Chemical foam

Unsuitable Extinguishing Media: No information available

Flash Point > 104 °C / > 219.2 °F

Method - No information available

Autoignition Temperature No information available

Explosion Limits

Upper No data available Lower No data available

Sensitivity to Mechanical Impact No information available

Sensitivity to Static Discharge No information available

Specific Hazards Arising from the Chemical

Keep product and empty container away from heat and sources of ignition.

Hazardous Combustion Products

Carbon monoxide (CO). Carbon dioxide (CO2). Hydrogen halides

Protective Equipment and Precautions for Firefighters

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

NFPA

Health	Flammability	Instability	Physical hazards
3	0	0	N/A













Personal Precautions: Ensure adequate ventilation. Use personal protective

equipment as required.

Environmental Precautions: Do not flush into surface water or sanitary sewer system

Methods for Containment and Clean Up:

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal.

Section 7- Handling and Storage.

Handling: Do not breathe mist/vapors/spray. Do not get in eyes, on skin, or on clothing. Handle product only in closed system or provide appropriate exhaust ventilation.

Storage: Keep in a dry, cool and well-ventilated place. Keep container tightly closed. Protect from direct sunlight. Do not store in metal containers. Incompatible Materials. Strong bases

Section 8- Exposure Control/Personal Protection.

Exposure Guidelines: This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Engineering Measures: Ensure adequate ventilation, especially in confined areas. Ensure that eye wash stations and safety showers are close to the workstation location.

Personal Protective Equipment

Eye/face Protection: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or EuropeanStandardEN166.

Skin and body protection: Wear appropriate protective gloves and clothing to prevent skin exposure.

Respiratory Protection: Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Hygiene Measures:

Handle in accordance with good industrial hygiene and safety practice

Section 9- Physical and Chemical Properties.

Appearance Colorless to Light yellow clear liquid.

Odor sweet

Odor Threshold No information available PH No information available

Melting Point/Range 10 °C.
Boiling Point/Range 132 °C.











Flash Point > 104 °C / > 219.2 °F
Evaporation Rate No information available

Flammability (solid,gas) Not applicable

Flammability or explosive limits

Upper No data available Lower No data available

Vapor Pressure No information available

Density 2.18 g/cm³.

Solubility Soluble in alcohol.

Partition coefficient; n-octanol/water No data available

Autoignition Temperature > 340°C

Decomposition Temperature No information available

Viscosity No data available

Molecular Formula C₂H₄Br₂. Molecular Weight 187.86 g/mol.

Section 10- Stability and Reactivity.

Reactive Hazard: None known, based on information available

Stability: Decomposes in contact with water. heat sensitive. Light sensitive. Decomposes on

exposure to light

Conditions to Avoid: Exposure to light. Incompatible products. Exposure to moisture.

Incompatible Materials: Strong bases, Ammonia, Metals

Hazardous Decomposition Products: Carbon monoxide (CO), Carbon dioxide (CO2)

Hazardous Polymerization: No information available **Hazardous Reactions**: None under normal processing.

Section 11- Toxicological Information.

Information on toxicological effects

Acute toxicity: Dermal: Toxic in contact with skin. Inhalation: Toxic if inhaled. Oral: Toxic if

swallowed.

Skin corrosion/irritation: Causes skin irritation.

Serious eye damage/irritation: Causes serious eye irritation.

Respiratory or skin sensitisation: Not classified

Germ cell mutagenicity: Not classified **Carcinogenicity:** May cause cancer. **Reproductive toxicity:** Not classified











STOT-single exposure: May cause respiratory irritation.

STOT-repeated exposure: Not classified

Aspiration hazard: Not classified

Potential adverse human health effectsToxic if swallowed. Toxic in contact with skin.

and symptoms

Section 12- Ecological Information.

Toxicity

Ecology - water: Toxic to aquatic life with long lasting effects.

Persistence and degradability

May cause long-term adverse effects in the environment.

Bio accumulative potential

No additional information available

Mobility in soil

No additional information available

Results of PBT and vPvB assessment

No additional information available

Other adverse effects

No additional information available

Section 13- Disposal Considerations.

Waste Disposal Methods: Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

Section 14- Transport Information.

DOT

UN-No UN1605

Proper Shipping Name ETHYLENE DIBROMIDE

Hazard Class 6.1

Packing Group I

TDG

UN-No UN1605

Proper Shipping Name ETHYLENE DIBROMIDE

Hazard Class 6.1

Packing Group I

IATA FORBIDDEN FOR IATA TRANSPORT

UN-No UN1605

Proper Shipping Name ETHYLENE DIBROMIDE, FORBIDDEN FOR IATA TRANSPORT Hazard Class 6.1











Packing Group I

IMDG/IMO

UN-No UN1605

Proper Shipping Name ETHYLENE DIBROMIDE

Hazard Class 6.1

Packing Group I

Section 15- Regulatory Information.

Legend:

TSCA - Toxic Substances Control Act, (40 CFR Part 710)

X - Listed

'-' - Not Listed

TSCA 12(b) - Notices of Export Not applicable

U.S. Federal Regulations

SARA 313 Not applicable

SARA 311/312 Hazard Categories See section 2 for more information

CWA (Clean Water Act) Not applicable

Clean Air Act Not applicable

OSHA - Occupational Safety and

Health Administration

Not applicable

CERCLA Not applicable

California Proposition 65 This product does not contain any Proposition 65 chemicals

Section 16- Other Information.

Briti Scientific provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose.







