

# SAFETY DATA SHEET

Date Printed: 05/08/2024 Date Revised: 01/15/2022

#### **SECTION 1. IDENTIFICATION**

Product Identifier: (3N) 99.9% Iron Bromide

Product Code: FE-BR-03

CAS Number: 7789-46-0

Relevant identified uses of the substance: Scientific research and development

Supplier details:

American Elements 10884 Weyburn Ave. Los Angeles, CA 90024 Tel: +1 310-208-0551 Fax: +1 310-208-0351 Emergency telephone number: +1 800-424-9300

# **SECTION 2. HAZARDS IDENTIFICATION**

Classification This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200) Skin Corrosion/Irritation Category 1 C Serious Eye Damage/Eye Irritation Category 1 Label Elements Signal Word Danger Hazard Statements Causes severe skin burns and eye damage Causes serious eye damage



Precautionary Statements Prevention Do not breathe dust/fume/gas/mist/vapors/spray Wash face, hands and any exposed skin thoroughly after handling Wear protective gloves/protective clothing/eye protection/face protection Response

Immediately call a POISON CENTER or doctor/physician Inhalation IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing Skin Immediately call a POISON CENTER or doctor/physician IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower Wash contaminated clothing before reuse Eves Immediately call a POISON CENTER or doctor/physician 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 Indestion IF SWALLOWED: Rinse mouth. DO NOT induce vomiting Storage Store locked up Disposal Dispose of contents/container to an approved waste disposal plant Hazards not otherwise classified (HNOC) None identified

# **SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Component - Iron bromide (FeBr<sub>2</sub>) CAS-No - 7789-46-0 Weight % - >95

#### **SECTION 4. FIRST AID MEASURES**

Eye Contact Immediate medical attention is required. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Skin Contact Immediate medical attention is required. Wash off immediately with plenty of water for at least 15 minutes.

Inhalation Immediate medical attention is required. Remove from exposure, lie down. Remove to fresh air. If breathing is difficult, give oxygen. Do not use mouth-to-mouth method if victim

ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask

equipped with a one-way valve or other proper respiratory medical device.

Ingestion Call a physician or poison control center immediately. Do NOT induce vomiting. Most important symptoms and effects

Causes burns by all exposure routes. . Product is a corrosive material. Use of gastric

lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated: Ingestion causes severe swelling, severe damage to the delicate tissue and danger of

perforation

Notes to Physician Treat symptomatically

# **SECTION 5. FIREFIGHTING MEASURES**

Suitable Extinguishing Media Carbon dioxide (CO 2). Dry chemical. Chemical foam. Unsuitable Extinguishing Media No information available

Flash Point No information available Method - No information available Autoignition Temperature **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 Thermal decomposition can lead to release of irritating gases and vapors. Hazardous Combustion Products 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: 3 Flammability: 0 Instability: 1 Physical hazards N/A

# **SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal Precautions Avoid contact with skin and eyes. Use personal protective equipment as required. Ensure adequate ventilation. Avoid dust formation.

Environmental Precautions Should not be released into the environment.

Methods for Containment and Clean Up

Sweep up and shovel into suitable containers for disposal. Do not let this chemical enter the environment. Avoid dust formation.

#### **SECTION 7. HANDLING AND STORAGE**

Handling Wear personal protective equipment/face protection. Do not breathe dust. Handle product only in closed system or provide appropriate exhaust ventilation. Do not get in eyes, on skin, or on clothing. Do not ingest. If swallowed then seek immediate medical assistance. Storage Keep in a dry, cool and well-ventilated place. Refer product specification and/or product label for specific storage temperature requirement. Keep container tightly closed. Corrosives area. Store under an inert atmosphere.

# SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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

Engineering Measures Ensure adequate ventilation, especially in confined areas. Ensure that eyewash 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 European Standard EN166.

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**

**Physical State Solid** Appearance Dark yellow Odor No information available Odor Threshold No information available pH No information available Melting Point/Range 684 °C / 1263.2 °F Boiling Point/Range 937 °C / 1718.6 °F @ 760 mmHg Flash Point No information available **Evaporation Rate Not applicable** Flammability (solid,gas) No information available Flammability or explosive limits Upper No data available Lower No data available Vapor Pressure No information available Vapor Density Not applicable Specific Gravity No information available Solubility Soluble in water Partition coefficient; n-octanol/water No data available Autoignition Temperature Decomposition Temperature No information available Viscosity Not applicable Molecular Formula Br2 Fe Molecular Weight 215.65

#### SECTION 10. STABILITY AND REACTIVITY

Reactive Hazard None known, based on information available Stability Hygroscopic. Air sensitive. Conditions to Avoid Incompatible products. Exposure to moist air or water. Exposure to air. Incompatible Materials Strong oxidizing agents, Strong acids Hazardous Decomposition Products Hydrogen halides Hazardous Polymerization Hazardous polymerization does not occur. Hazardous Reactions None under normal processing.

# SECTION 11. TOXICOLOGICAL INFORMATION

Acute Toxicity Product Information No acute toxicity information is available for this product Component Information Toxicologically Synergistic Products

No information available Delayed and immediate effects as well as chronic effects from short and long-term exposure Irritation Causes burns by all exposure routes Sensitization No information available Mutagenic Effects No information available Reproductive Effects No information available. Developmental Effects No information available. Teratogenicity No information available. STOT - single exposure None known STOT - repeated exposure None known Aspiration hazard No information available Symptoms / effects, both acute and delayed Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated: Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation Endocrine Disruptor Information No information available Other Adverse Effects The toxicological properties have not been fully investigated.

# **SECTION 12. ECOLOGICAL INFORMATION**

Ecotoxicity

Do not empty into drains.

Persistence and Degradability Soluble in water Persistence is unlikely based on information available. Bioaccumulation/ Accumulation No information available.

Mobility Will likely be mobile in the environment due to its water solubility.

#### **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 UN3260 Proper Shipping Name Corrosive solid, acidic, inorganic, n.o.s. Technical Name (IRON (II) BROMIDE) Hazard Class 8 Packing Group III TDG UN-No UN3260 Proper Shipping Name Corrosive solid, acidic, inorganic, n.o.s. Hazard Class 8 Packing Group III IATA UN-No UN3260 Proper Shipping Name CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S.\* Hazard Class 8 Packing Group III IMDG/IMO UN-No UN3260 Proper Shipping Name Corrosive solid, acidic, inorganic, n.o.s. Hazard Class 8 Packing Group III

#### **SECTION 15. REGULATORY INFORMATION**

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. U.S. State Right-to-Know Regulations Not applicable U.S. Department of Transportation Reportable Quantity (RQ): N **DOT Marine Pollutant N** DOT Severe Marine Pollutant N U.S. Department of Homeland Security This product does not contain any DHS chemicals. Other International Regulations Mexico - Grade No information available

# **16. OTHER INFORMATION**

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH). The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. American Elements shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale. COPYRIGHT 1997-2022 AMERICAN ELEMENTS. LICENSED GRANTED TO MAKE UNLIMITED PAPER COPIES FOR INTERNAL USE ONLY.