

# SAFETY DATA SHEET

Date Accessed: 04/27/2024 Date Revised: 01/15/2022

## **SECTION 1. IDENTIFICATION**

Product Name: Ultra Dry Cadmium Bromide

**Product Number:** All applicable American Elements product codes, e.g. CD-BR-02-P.UD , CD-BR-03-P.UD , CD-BR-04-P.UD , CD-BR-05-P.UD

CAS #: 7789-42-6

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 of the substance or mixture GHS07 Acute Tox. 4 H302 Harmful if swallowed. Acute Tox. 4 H312 Harmful in contact with skin. Acute Tox. 4 H332 Harmful if inhaled. GHS label elements The substance is classified and labeled according to the Globally Harmonized System (GHS).

Hazard pictograms GHS07 Signal word Warning Hazard-determining components of labeling: cadmium bromide Hazard statements H302+H312+H332 Harmful if swallowed, in contact with skin or if inhaled. Precautionary statements P280 Wear protective gloves/protective clothing/eye protection/face protection. P261 Avoid breathing dust/fume/gas/mist/vapors/spray P232 Protect from moisture. P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P403+P233 Store in a well-ventilated place. Keep container tightly closed. P501 Dispose of contents/container in accordance with local/regional/national/international regulations. Classification system: NFPA ratings (scale 0 - 4) 3 0 0 Health = 3Fire = 0Reactivity = 0HMIS-ratings (scale 0 - 4) HEALTH FIRE REACTIVITY 2 0 0 Health = 2Fire = 0Reactivity = 0Other hazards Results of PBT and vPvB assessment PBT: N/A vPvB: N/A

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

Substances CAS # / Substance Name 7789-42-6 cadmium bromide Identification number(s) EC number: 232-165-1 Index number: 048-001-00-5

# **SECTION 4. FIRST AID MEASURES**

Description of first aid measures General information: Immediately remove any clothing soiled by the product. Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident. If inhaled: Supply patient with fresh air. If not breathing, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

In case of unconsciousness place patient stably in side position for transportation.

In case of skin contact: Immediately rinse with water.

In case of eye contact: Rinse opened eye for several minutes under running water. Consult a physician.

If swallowed: Immediately call a doctor.

Information for doctor:

Most important symptoms and effects, both acute and delayed:

No data available

Indication of any immediate medical attention and special treatment needed

No data available

# **SECTION 5. FIREFIGHTING MEASURES**

Extinguishing media Suitable extinguishing agents: CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. Special hazards arising from the substance or mixture No data available Advice for firefighters

Advice for menginers

Protective equipment: Mouth respiratory protective device.

# SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures Not required. Environmental precautions:

Do not allow product to enter drains, sewage systems, or other water courses.

Inform respective authorities in case of seepage into water courses, or sewage systems.

Methods and materials for containment and cleanup:

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

# SECTION 7. HANDLING AND STORAGE

Handling:

Precautions for safe handling Thorough dedusting.

Ensure good ventilation/exhaustion at the workplace.

Information about protection against explosions and fires: No special measures required.

Conditions for safe storage, including any incompatibilities:

Requirements to be met by storerooms and receptacles: No special requirements.

Information about storage in one common storage facility: Not required.

Further information about storage conditions:

Keep receptacle tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

Specific end use(s) No data available

# SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Additional information about design of technical systems: No further data; see item 7. **Control parameters** Components with limit values that require monitoring at the workplace: 7789-42-6 cadmium bromide PEL Long-term value: 0.005 mg/m<sup>3</sup> as Cd; see 29 CFR 1910.1027 REL See Pocket Guide App. A TLV Long-term value: 0.01 0.002\* mg/m<sup>3</sup> as Cd; \*respirable fraction; BEI Ingredients with biological limit values: 7789-42-6 cadmium bromide BEI 5 µg/g creatinine Medium: urine Time: not critical Parameter: Cadmium (background) 5 μg/L Medium: blood Time: not critical Parameter: Cadmium (background) Additional information: The lists that were valid during the creation were used as basis. Exposure controls Personal protective equipment: General protective and hygienic measures: Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin. Breathing equipment: In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air. Protection of hands: SProtective gloves The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation Material of gloves The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. Penetration time of glove material The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed. Eye protection: Safety glasses

## **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Information on basic physical and chemical properties Appearance: Form: Powder Color: White Odor: Odorless Odor threshold: No data available. pH: N/A Melting point/Melting range: 567 °C (1053 °F) Boiling point/Boiling range: 863 °C (1585 °F) Flash point: N/A Flammability (solid, gas): Product is not flammable. Ignition temperature: Decomposition temperature: No data available. Autoignition: No data available. Danger of explosion: Product does not present an explosion hazard. **Explosion limits:** Lower: No data available. Upper: No data available. Vapor pressure: no data hPa Density at 20 °C (68 °F): 5.192 g/cm<sup>3</sup> (43.327 lbs/gal) Relative density No data available. Vapor density N/A Evaporation rate N/A Solubility in / Miscibility with Water: Insoluble. Partition coefficient (n-octanol/water): No data available. Viscosity: Dynamic: N/A Kinematic: N/A Solvent content: Organic solvents: 0.0 %

VOC content: 0.0 g/l / 0.00 lb/gl

Solids content: 100.0 % Other information No data available

# SECTION 10. STABILITY AND REACTIVITY

Reactivity No data available Chemical stability Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications. Possibility of hazardous reactions No dangerous reactions known. Conditions to avoid No data available Incompatible materials: No data available Hazardous decomposition products: No dangerous decomposition products known.

# SECTION 11. TOXICOLOGICAL INFORMATION

Information on toxicological effects Acute toxicity: LD/LC50 values that are relevant for classification: Oral LD50 322 mg/kg (rat) Primary irritant effect: on the skin: No irritant effect. on the eye: No irritating effect. Sensitization: No sensitizing effects known. Additional toxicological information: Carcinogenic categories IARC (International Agency for Research on Cancer) 7789-42-6 cadmium bromide 1 NTP (National Toxicology Program) 7789-42-6 cadmium bromide K OSHA-Ca (Occupational Safety & Health Administration) Substance is not listed.

# **SECTION 12. ECOLOGICAL INFORMATION**

Toxicity Aquatic toxicity: No data available Persistence and degradability No data available Behavior in environmental systems: Bioaccumulative potential No data available Mobility in soil No data available Additional ecological information: Not known to be hazardous to water. Results of PBT and vPvB assessment PBT: N/A vPvB: N/A Other adverse effects No data available

## **SECTION 13. DISPOSAL CONSIDERATIONS**

Waste treatment methods Recommendation: Must not be disposed of together with household garbage. Do not allow product to enter drains, sewage systems, or other water courses system. Uncleaned packagings: Recommendation: Disposal must be made according to official regulations.

## **SECTION 14. TRANSPORT INFORMATION**

UN-Number DOT, IMDG, IATA UN2570

## **SECTION 15. REGULATORY INFORMATION**

UN proper shipping name DOT, IATA Cadmium compounds IMDG CADMIUM COMPOUND Transport hazard class(es) DOT Class 6.1 Toxic substances Label 6.1 IMDG, IATA Class 6.1 Toxic substances Label 6.1 Packing group DOT, IMDG, IATA III Environmental hazards: Marine pollutant: No Special precautions for user N/A Danger code (Kemler): 60 EMS Number: F-A,S-A Stowage Category A Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code N/A Transport/Additional information: DOT Quantity limitations On passenger aircraft/rail: 100 kg On cargo aircraft only: 200 kg Hazardous substance: 10 lbs, 4.54 kg IMDG Limited quantities (LQ) 5 kg Excepted quantities (EQ) Code: E1 Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 1000 g UN "Model Regulation": UN 2570 CADMIUM COMPOUNDS, 6.1, III 15 Regulatory information Safety, health and environmental regulations/legislation specific for the substance or mixture Sara Section 355 (extremely hazardous substances): Substance is not listed. Section 313 (Specific toxic chemical listings): Substance is listed. TSCA (Toxic Substances Control Act): Substance is listed. **Proposition 65** Chemicals known to cause cancer: Substance is listed. Chemicals known to cause reproductive toxicity for females: Substance is not listed. Chemicals known to cause reproductive toxicity for males: Substance is not listed. Chemicals known to cause developmental toxicity: Substance is not listed. Carcinogenic categories EPA (Environmental Protection Agency) Substance is not listed. TLV (Threshold Limit Value established by ACGIH)

Substance is not listed. NIOSH-Ca (National Institute for Occupational Safety and Health) Substance is not listed. **GHS** label elements The substance is classified and labeled according to the Globally Harmonized System (GHS). Hazard pictograms GHS07 Signal word Warning Hazard-determining components of labeling: cadmium bromide Hazard statements H302+H312+H332 Harmful if swallowed, in contact with skin or if inhaled. Precautionary statements P280 Wear protective gloves/protective clothing/eye protection/face protection. P261 Avoid breathing dust/fume/gas/mist/vapors/spray P232 Protect from moisture. P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present P403+P233 Store in a well-ventilated place. Keep container tightly closed. P501 Dispose of contents/container in accordance with local/regional/national/international regulations. Chemical safety assessment: A Chemical Safety Assessment has not been carried out. and easy to do. Continue rinsing.

## **SECTION 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.