

Material Safety Data Sheet

Revision: 06/05/2002



Hazard information is provided for compliance with both the UK Chemicals (Hazard Information and Packaging) (CHIP) Regulations and the US Hazard Communication Standard (HCS)

IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY

PRODUCT NAME:
Cesium Hydroxide, Monohydrate

PRODUCT CODE:
13330

EEC NUMBER:
None

SUPPLIER:

USB Corporation, 26111 Miles Road, Cleveland, Ohio 44128 Phone: (216) 765-5000

Emergency Contact:

Chemtrec (800) 424-9300
Outside USA & Canada 703 527 3887

COMPOSITION/HAZARDOUS COMPONENTS

HAZARD

CAS NO.

%WT

TLV

CHIP R & S Phrases

Cesium Hydroxide,
Monohydrate

35103-79-8

~ 100%

R:35 Causes severe burns.
S:26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S:28 After contact with skin, wash immediately with plenty of water.
S:36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
S:45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

HAZARDS IDENTIFICATION

CHIP

Corrosive

HCS

Corrosive

FIRST-AID MEASURES

EYES: Flush with water for 15 minutes. Seek medical advice if irritation persists.

SKIN: Flush with water, then wash thoroughly with soap and water. Remove contaminated clothing and wash before reuse. Seek medical attention if irritation persists.

INHALATION: Remove the victim from exposure and move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Keep victim quiet and warm. Seek immediate medical attention.

INGESTION: Drink water and seek immediate medical attention. Avoid alcoholic beverages. Never give anything by mouth to an unconscious person.

FIRE-FIGHTING INFORMATION

Use media suitable to extinguish the supporting or surrounding fire. Wear NIOSH (or equivalent) approved self contained breathing apparatus. For small fires only: use carbon dioxide, dry powder or foam. Contact with metals may evolve flammable hydrogen gas. Emits toxic fumes under fire conditions.

Flash Point = No data available.

ACCIDENTAL RELEASE MEASURES

Wear appropriate personal protective equipment and clothing including lab coat, safety goggles, gloves and NIOSH-approved respirator. Collect in a manner that does not create dust and place in a suitable waste container. Avoid contact of material with skin or eyes. Use adequate ventilation.

This data sheet is based upon information believed to be reliable. The Company makes no statement or warranty as to the accuracy or completeness of the information contained herein which is offered for your consideration, investigation and verification. Any use of the information contained in this data sheet must be determined by the user to be in accordance with appropriate applicable regulations.

For Further Information, contact your local USB authorized distributor, Amersham Biosciences	Asia Pacific + 852 2811 8693	Canada 1 800 463 5800	Former Soviet Union + 7 (095) 232 0250	Japan 81 3 5331 9337	Norway 63 89 23 10	Spain 935 944 950	USA USB Corporation (216) 765-5000 If purchased from Amersham Biosciences use 1 800 526 3593
	Australia + 61 2 9894 5188	Central and East Europe + 43 1 982 3826	France 0169 18 28 00	Latin America + 55 11 3667 5700	Portugal 01 417 70 35	Sweden 018 164000	
	Austria 01 576 0616 10	Denmark + 45 4516 2400	Germany 07 61 49 03 0	Middle East and Africa + 30 (1) 96 00 687	South East Asia 60 3 724 2080	Switzerland 01 802 81 50	
	Belgium 0800 73888	Finland 358 (9) 512 3940	Italy 02 27322 1	Netherlands 0165 580 410	South East Europe + 43 (1) 982 3826	UK 0800 515313	

MSDS information may be continued on back of page.

HANDLING AND STORAGE

Wear appropriate personal protective equipment and clothing including lab coat, safety goggles, gloves and NIOSH-approved respirator. Avoid contact of material with skin or eyes. Use adequate ventilation. Store ambient away from incompatible material. Do not store together with acids. Avoid contact with metals. Protect from moisture.

PERSONAL PROTECTION

Wear appropriate personal protective equipment and clothing including lab coat, safety goggles, gloves and NIOSH-approved respirator. A qualified industrial hygienist should evaluate the need for respiratory protection. Use respiratory protection approved by NIOSH (or equivalent) and appropriate to the hazard. Avoid contact of material with skin or eyes. Mechanical ventilation or local exhaust as needed to control exposure to dust, vapors or mists. Access to a safety shower and eye-wash.

PHYSICAL AND CHEMICAL PROPERTIES

Appearance: White, crystalline solid	Boiling Point: No data available
Vapor Pressure (mm Hg): No data available	Vapor Density: 5.8
Solubility (Water): Soluble (Exothermic)	Specific Gravity: 3.675
Percent Volatile: No data available	Evaporation Rate: No data available
Chemical formula: Cs-H-O H ₂ O	Melting Point: 272 °C

STABILITY AND REACTIVITY

Product is stable. Hygroscopic. Hazardous decomposition products include cesium oxide and hydrogen gas. Incompatible with strong oxidizing agents, acids and metals. Hazardous polymerization will not occur.

TOXICOLOGICAL INFORMATION

EFFECTS OF OVEREXPOSURE:

EYES: Causes eye burns. Contact may result in corneal damage or blindness. Symptoms of inflammation include redness, watering and itching.

SKIN: Contact causes burns. Symptoms include itching, scaling, reddening and blistering.

INHALATION: May cause severe irritation of the respiratory tract with sore throat, coughing, shortness of breath, wheezing, laryngitis, headache, nausea, vomiting and pulmonary edema. Causes chemical burns to the respiratory tract.

INGESTION: May cause severe and permanent damage to the digestive tract characterized by nausea, vomiting, diarrhea, restlessness, ataxia, vertigo, slow and labored breathing, hypothermia and convulsions. Causes gastrointestinal tract burns.

ADDITIONAL INFORMATION:

May be harmful by inhalation, ingestion and skin absorption. Cause caustic burns due to very high alkalinity. Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes and skin. Severe overexposure may produce lung damage, choking, unconsciousness or death.

RTECS: No data available.

Definition(s): RTECS = Registry of Toxic Effects of Chemical Substances.

ECOLOGICAL INFORMATION

No information available

DISPOSAL CONSIDERATIONS

Dispose of material in accordance with applicable local, state, and federal regulations.

TRANSPORTATION INFORMATION

US DOT / IATA: Caesium hydroxide, Class 8, UN2682, PGII. Label: Corrosive.

REGULATORY INFORMATION

RCRA - No applicable information.

SARA 302 - This material does not have an RQ or TPQ.

SARA 313 - This material is not reportable under 313.

EPA TSCA Section 8(b) - No applicable information.

Exposure Limits - Not established.

California Proposition 65 - No applicable information.