

BICRON MATERIAL SAFETY DATA SHEET

PRODUCT: Cesium Iodide (Na)
Scintillation crystal

EMERGENCY PHONE NO.
(440) 564-2251

SECTION 1 SUPPLIER INFORMATION

COMMON NAME : Cesium Iodide (Na) scintillation crystal
CHEMICAL NAME : Cesium Iodide
FORMULA : CsI(NaI)
PRODUCT CAS # : 7789-17-5/7681-82-5
SUPPLIER : BICRON
ADDRESS : 12345 KINSMAN ROAD
CITY/STATE/ZIP : NEWBURY, OH 44065
PHONE : (440)564-2251
TELEFAX : (440)564-8047

SECTION II HAZARDOUS INGREDIENT INFORMATION

INGREDIENT	%WT. PEL-OSHA	TLV-ACGIH
Cesium Iodide CAS #7789-17-5	99-100 Non established	None Established
Sodium Iodide CAS #7681-82-5	99-100 None established	None Established

INGREDIENT HAZARD STATEMENT

NOTE: Due to formed nature of this product, no airborne concentrations are expected.

SECTION III PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING POINT : 2336 F
SPECIFIC GRAVITY (H₂O=1) : 4.51
MELTING POINT : 621 C
VAPOR PRESSURE (mmHg) : N/A
VAPOR DENSITY (air=1) : N/A

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EVAPORATION RATE (BUTYL ACETATE=1): N/A

% SOLUBILITY/WATER:

42.5% by wt. At 68°F

APPEARANCE AND ODOR: Colorless and odorless crystal

SECTION IV FIRE AND EXPLOSION HAZARD DATA
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FLASH POINT: N/A

AUTO-IGNITION: N/A

LEL: Not available

UEL: Not available

NFPA HAZARD CLASSIFICATION

HEALTH: 1 FLAMMABLE: 0 REACTIVITY: 0

HMIS HAZARD CLASSIFICATION

HEALTH: 1 FLAMMABLE: 0 REACTIVITY: 0

EXTINGUISHING MEDIA: Use water, carbon dioxide or foam

SPECIAL FIRE FIGHTING PROCEDURES: Wear SCBA positive pressure

UNUSUAL FIRE AND EXPLOSION HAZARDS: Not a fire or explosion hazard. However, toxic emissions are possible in a fire situation.

SECTION V REACTIVITY DATA

STABILITY: Generally considered stable

AVOID None expected

INCOMPATIBILITY: Oxidizers, mineral acids

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: When heated to decomposition emits toxic fumes of iodine.

POLYMERIZATION: Will not occur

AVOID:

SECTION VI HEALTH HAZARD DATA

ROUTES OF ENTRY

EYES: Yes SKIN: Yes INHALATION: Yes INGESTION: Yes

EFFECTS OF OVEREXPOSURE

EYE: Contact may cause irritation

SKIN: Contact may cause irritation and allergic reaction

INHALATION: May cause delayed toxic effects if exposure is repeated or prolonged.

INGESTION: Is harmful, may cause irritation and/or systemic toxicity may occur.

NOTE:

CARCINOGENICITY:

NTP: No IARC: No OSHA: No

CHRONIC HEALTH HAZARD:

None known

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:

None known

EMERGENCY FIRST AID

EYE AND SKIN CONTACT: Procedures normally not needed. If exposed to dust, flush eyes with plenty of water and wash skin with soap and water.

INHALATION: Procedures normally not needed. If exposed to excessive levels of dust or fumes, remove to fresh air and seek medical attention.

INGESTION: Procedures normally not needed. If large quantities are ingested seek medical attention.

SECTION VII PRECAUTIONS FOR SAFE HANDLING AND USE
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EPA: WASTE #: Not regulated

UN #: N/A

DOT CLASSIFICATION: Not regulated

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

If broken or not usable, scoop up or vacuum into a container for disposal, in accordance to local, state and federal regulations.

WASTE DISPOSAL METHOD: All waste materials should be reviewed to determine the proper waste disposal procedure.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

Keep container closed.

PERSONNEL SAMPLING PROCEDURE: N/A

SECTION VIII CONTROL MEASURES

RESPIRATORY PROTECTION: A NIOSH/MSHA approved respirator as necessary.

VENTILATION: General; if machined provide local exhaust ventilation as necessary to control dust.

PROTECTIVE EQUIPMENT: Safety glasses (with side shields). Rubber or neoprene gloves. Body protection as necessary to prevent skin contact. If machined, provide dust mask.

WORK/HYGIENE PRACTICES: Basic personal hygiene is necessary.

SECTION IX FEDERAL AND STATE REGULATIONS

SARA HAZARD CATEGORIES

IMMEDIATE (ACUTE) HEALTH HAZARD: YES [☒] NO [☐]

DELAYED (CHRONIC) HEALTH HAZARD: YES [☐] NO [☒]

FIRE HAZARD: YES [☐] NO [☒]

REACTIVITY HAZARD: YES [☐] NO [☒]

SUDDEN RELEASE OF PRESSURE: YES [☐] NO [☒]

SARA SECTION 313 NOTIFICATION:

THIS PRODUCT MAY CONTAIN A TOXIC CHEMICAL (OR CHEMICALS) SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 TITLE III OF THE SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 AND 40 CFR PART 372.

CHEMICAL NAME:

CAS #

%WT.

N/A

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