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MATERIAL SAFETY DATA SHEET (MSDS)

ZINC IODIDE

1. Product Identification

Synonyms: ZINC IODIDE CAS No.: 10139-47-6

Product Code: Z0220100100

Molecular Weight: 319.20 Chemical Formula: ZnI_2

2 Composition/Data on components: Chemical characterization: Description:

CAS# Zinc Iodide (CAS# 10139-47-6), 100% Identification number(s): EINECS Number: 233-396-0.

3 Hazards identification :

EMERGENCY OVERVIEW :- Appearance: almost white crystalline powder.

Danger! Causes eye and skin burns. Causes digestive and respiratory tract burns. Air sensitive. Light sensitive. Hygroscopic (absorbs moisture from the air). The toxicological properties of this material have not been fully investigated. **Target Organs:** Eyes, skin, mucous membranes.

Potential Health Effects :- **Eye:** Causes eye burns. **Skin:** Causes skin burns. **Ingestion:** Causes gastrointestinal tract burns. The toxicological properties of this substance have not been fully investigated. **Inhalation:** Causes chemical burns to the respiratory tract. The toxicological properties of this substance have not been fully investigated. **Chronic:** Prolonged exposure to iodides may produce iodism in sensitive individuals. Symptoms could include skin rash, running nose and headache. Chronic exposure may cause effects similar to those of acute exposure.

4 First aid measures :

Eyes: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical aid. **Skin:** In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid immediately. Wash clothing before reuse. **Ingestion:** If swallowed, do NOT induce vomiting. Get medical aid immediately. If victim is fully conscious, give a cupful of water. Never give anything by mouth to an unconscious person. **Inhalation:** Get medical aid immediately. Remove from exposure and move to fresh air immediately. If breathing is difficult, give oxygen. Do NOT use mouth-to-mouth resuscitation. If breathing has ceased apply artificial respiration using oxygen and a suitable mechanical device such as a bag and a mask.

Notes to Physician: Treat symptomatically and supportively.

5 Fire fighting measures :

General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. **Extinguishing Media:** Use foam, dry chemical, or carbon dioxide. Flash Point: 625 deg C (1,157.00 deg F) Autoignition Temperature: Not available.

6 Accidental release measures :-

General Information: Use proper personal protective equipment as indicated in Section 8. **Spills/Leaks:** Clean up spills immediately, observing precautions in the Protective Equipment section. Sweep up, then place into a suitable container for disposal. Avoid generating dusty conditions. Provide ventilation.

7 Handling and storage : **Handling:** Remove contaminated clothing and wash before reuse. Minimize dust generation and accumulation. Do not breathe dust, mist, or vapor. Do not get in eyes, on skin, or on clothing. Keep container tightly closed. Do not ingest or inhale. Use with adequate ventilation. Store protected from light. Store protected from air. Discard contaminated shoes. **Storage:** Store in a cool, dry place. Keep container closed when not in use. Store protected from moisture. Store protected from light and air.

8 Exposure controls and personal protection : **Engineering Controls:** Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low. **Exposure Limits**

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
Zinc iodide	none listed	none listed	none listed

OSHA Vacated PELs: Zinc iodide: No OSHA Vacated PELs are listed for this chemical. **Personal Protective Equipment** **Eyes:** 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:** Wear appropriate protective gloves to prevent skin exposure. **Clothing:** Wear appropriate protective clothing to minimize contact with skin. **Respirators:** A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant respirator use.

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9 Physical and chemical properties:

Physical State: Crystalline powder Appearance: almost white
 Odor: None reported pH: Not available. Vapor Pressure: Not available. Vapor Density: Not available.
 Evaporation Rate: Not available. Viscosity: Not available. Boiling Point: Not available. Freezing/Melting Point: 446 deg C Decomposition
 Temperature: 625 deg C Solubility: 4500 g/l (20 C) Specific Gravity/Density: 4.7400 Molecular Formula: I₂Zn Molecular Weight: 319.189

10 Stability and reactivity:

Chemical Stability: Air sensitive. Sensitive to light. Hygroscopic: absorbs moisture or water from the air. Conditions to Avoid: Light, dust generation, moisture, exposure to air, excess heat. Incompatibilities with Other Materials: Strong bases, potassium, peroxides, strong oxidizing agents. Hazardous Decomposition Products: Hydrogen iodide, toxic fumes of zinc oxide. Hazardous Polymerization: Has not been reported.

11 Toxicological Information :-

RTECS#: CAS# 10139-47-6 unlisted. LD50/LC50: Not available.
 Carcinogenicity: CAS# 10139-47-6: Not listed by ACGIH, IARC, NTP, or CA Prop 65. Epidemiology: No information found Teratogenicity: No information found Reproductive Effects: No information found Mutagenicity: No information found Neurotoxicity: No information found Other Studies: No information found.

12 Corrosive Information :-

Substances cause full thickness destruction of intact skin tissue within an observation period of 14 days starting after an exposure time of 3 hours.

13 Disposal Considerations :-

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.
 RCRA P-Series: None listed. RCRA U-Series: None listed.

14 Transport Information :-

DOT regulations:

UN 3260 Packing group: III

Corrosive Solid, Acidic, Inorganic N.O.S. (Zinc Iodide)

15 Regulatory Information :-

US FEDERAL TSCA :- CAS# 10139-47-6 is listed on the TSCA inventory.
 Health & Safety Reporting List :- None of the chemicals are on the Health & Safety Reporting List. Chemical Test Rules :- None of the chemicals in this product are under a Chemical Test Rule. Section 12b :- None of the chemicals are listed under TSCA Section 12b. TSCA Significant New Use Rule :- None of the chemicals in this material have a SNUR under TSCA. CERCLA Hazardous Substances and corresponding RQs :- None of the chemicals in this material have an RQ. SARA Section 302 Extremely Hazardous Substances :- None of the chemicals in this product have a TPQ. Section 313 :- This material contains Zinc iodide (listed as Zinc compounds), >98%, (CAS# 10139-47-6) which is subject to the reporting requirements of Section 313 of SARA Title III and 40 CFR Part 373. Clean Air Act :- This material does not contain any hazardous air pollutants. / This material does not contain any Class 1

Ozone depleters. / This material does not contain any Class 2 Ozone depleters. Clean Water Act: None of the chemicals in this product are listed as Hazardous Substances under the CWA. None of the chemicals in this product are listed as Priority Pollutants under the CWA. CAS# 10139-47-6 is listed as a Toxic Pollutant under the Clean Water Act. OSHA: None of the chemicals in this product are considered highly hazardous by OSHA. STATE CAS# 10139-47-6 can be found on the following state right to know lists: California, (listed as Zinc compounds), New Jersey, (listed as Zinc compounds), Pennsylvania, (listed as Zinc compounds). California Prop 65 California No Significant Risk Level: None of the chemicals in this product are listed. European/International Regulations / European Labeling in Accordance with EC Directives Hazard Symbols: C Risk Phrases: R 34 Causes burns. Safety Phrases: S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. 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). WGK (Water Danger/Protection) CAS# 10139-47-6: No information available. Canada - DSL/NDSL CAS# 10139-47-6 is listed on Canada's NDSL List. Canada - WHMIS This product has a WHMIS classification of E. This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations. Canadian Ingredient Disclosure List CAS# 10139-47-6 is not listed on the Canadian Ingredient Disclosure List.

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16 Other information: Employers should use this information only as a supplement to other information gathered by them, and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.

Department issuing MSDS: Health, Safety and Environmental Department.

In accordance with REACH Regulation (CE) N° 1907/2006 and with CLP Regulation (CE) N° 1272/2008

DISCLAIMER:

- **SUVCHEM** Products are to be used as Lab Chemicals for R&D only. Not for drug, medicinal, household or other uses.
- **SUVCHEM** shall not be responsible for any damage resulting from handling or from contact with the above product.
- **SUVCHEM** 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.

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