

### **SECTION 1: IDENTIFICATION OF THE SUBSTANCE AND THE COMPANY/SUPPLIER**

**Product Name:** EDDI  
**Synonyms:** Ethane-1,2-diamine dihydroiodide; Ethylenediamine dihydriodide  
**CAS Number:** 5700-49-2  
**EINECS:** 227-186-8  
**ASG Product Codes:** 1010, 1015

**Product Use:** Nutritional source of iodine in animal feed

**Manufacturer/Supplier (1):** **AJAY NORTH AMERICA L.L.C.**  
 Address: 4000 Industry Road  
 Powder Springs, GA, USA  
 e-mail: sales@ajay-sqm.com  
 General Information Number: + 1 770 943 6202  
 Transportation Emergency Number: CHEMTREC 800-424-9300

**Manufacturer/Supplier (2):** **AJAY-EUROPE S.A.R.L.**  
 Address: Z.I. du Grand Verger BP 227  
 53602 Evron cedex, France  
 e-mail: ajay@ajay-europe.com  
 General Information Number: + 332 43 01 35 35  
 Transportation Emergency Number: ORFILA (INRS) at + 331 45 42 59 59

**Manufacturer/Supplier (3):** **AJAY-SQM CHILE S.A.**  
 Address: Av. Presidente Eduardo Frei Montalva 4900, Renca,  
 Santiago de Chile  
 e-mail: ajaysqmchile@ajay-sqm.cl  
 General Information Number: + 56 2 2443 7110  
 Transportation Emergency Number: CITUC: + 56 2 2247 3600

### **SECTION 2: HAZARDS IDENTIFICATION**

In accordance with the United Nations Globally Harmonized System of Classification and Labeling of Chemicals (GHS) and Regulation (EC) No. 1272/2008 concerning the Classification, Labeling and Packaging of Chemicals (CLP).

#### **2.1 GHS/CLP Classification:**

| Health  | Environmental | Physical |
|---|---------------|----------|
| Eye irritation – Category 2B<br>Skin irritation – Category 3<br>Acute toxicity (Oral) – Category 4<br>STOT RE 1, H372, Exposition route: oral, Organ: thyroid |               |          |

### 2.2 GHS/CLP labeling hazard/precautionary statements:

GHS/CLP Label Pictogram(s): Exclamation mark (GHS07); Health hazard (GHS08)



**Signal Word:** DANGER

**Hazard Statements:**

**H317:** May cause an allergic skin reaction.  
**H319:** Causes serious eye irritation.  
**H372:** Causes damage to thyroid through prolonged or repeated exposure, oral route.

**Precautionary Statements:**

**P220:** Keep/Store away from oxidizers  
**P232:** Protect from moisture.  
**P233:** Keep container tightly closed  
**P260:** Do not breathe dust/fume/gas/mist/vapors/spray  
**P264:** Wash hands thoroughly after handling  
**P501:** Dispose of contents/container in accordance with local and national regulations

### **SECTION 3: COMPOSITION AND INFORMATION ON INGREDIENTS**

| Component                    | CAS Number | Weight %   |
|------------------------------|------------|------------|
| Ethylenediamine Dihydriodide | 5700-49-2  | 99 – 100 % |

### **SECTION 4: FIRST AID MEASURES**

**Eye:** Eye irritation. Flush immediately with large amounts of water for at least 15 minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing. If irritation persists get medical assistance.

**Skin:** Itching or burning of the skin. Immediately flush the skin with plenty of water while removing contaminated clothing and shoes. If irritation persists get medical attention. Wash contaminated clothing before reuse.

**Inhalation:** Remove exposed person from exposure areas to fresh air immediately.

**Ingestion:** If victim is conscious, immediately give 2 to 4 glasses of water and induce vomiting by touching fingers to back of throat. Get immediate medical attention.

### **SECTION 5: FIRE FIGHTING MEASURES**

**Suitable Extinguishing Media:** Use extinguishing media as appropriate for surrounding fire. Dry chemical foam, or carbon dioxide to extinguish fire. Water may be ineffective but should be used to cool fire-exposed containers, structures and to protect personnel. Use water to dilute spills and to flush them away from sources of ignition.

**Fire Fighting Procedures:** Exposed firefighters must wear NIOSH-approved positive pressure self-contained breathing apparatus with full-face mask and full protective clothing. Cool down the containers and equipments exposed to heat with a water spray.

**Unusual Fire and Explosion Hazards:** None

**Combustion Products:** Fire conditions may liberate fumes of iodine, hydrogen iodide and nitrogen oxides.

### **SECTION 6: ACCIDENTAL RELEASE MEASURES**

Avoid contact with skin and eyes. Do not breathe dust. (Also see Section 8).

Sweep up or vacuum up the spilled product. Collect the product and place it in a suitable (e.g. plastic) container. Avoid generating dust. Wash spill area with water.

Do not flush to sewer or waterways. Prevent release to the environment if possible. Refer to Section 15 for spill/release reporting information.

For disposal of residues refer to Section 13.

### **SECTION 7: HANDLING AND STORAGE**

**Handling:** Avoid contact with eyes, skin or clothing. Avoid generating dust. Do not breathe dust. Keep container closed. Use in a well-ventilated area. Use good personal hygiene practices. Wash hands before eating, drinking, smoking. Remove contaminated clothing and clean before re-use.

**Storage:** Store in the original closed containers secure from children, pets or livestock. Store away from sunlight and moisture. Store away from oxidizers. Empty containers may contain residue. Do not cut, grind, drill, or weld on or near containers unless precautions are taken against these hazards.

### **SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION**

**Engineering Controls:** Local exhaust or general dilution ventilation should be in the facility. Provide mechanical ventilation for confined spaces. Safety shower and eyewash should be in the facility.

#### **Personal Protective Equipment:**

**Eye Protection:** Wear chemical safety goggles and face shield. Have eye-wash stations available where eye contact can occur.

**Skin Protection:** Avoid skin contact. Wear appropriate protective garments to prevent bodily contact.. Recommended protective materials include: PVC, Butyl, Neoprene and Viton rubber.

**Respiratory Protection:** High efficiency particulate respirator should be used. Respiratory protection must be provided in accordance with OSHA 29 CFR 1910.134 or EC 89/686/EEC.

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

|  |  |
|--|--|
| <b>Appearance:</b>                                   | Solid, white to creamy powder                                |
| <b>Odor:</b>   | Slight characteristic  |
| <b>Odor threshold:</b>                               | No information available                                     |
| <b>pH:</b>   | 4 to 5 (5% aqueous solution)                                 |
| <b>Melting point/freezing point:</b>                 | 337 °C approx.   |
| <b>Initial boiling point or boiling range:</b>       | No information available                                     |
| <b>Flash point:</b>                                  | No information available                                     |
| <b>Evaporation rate (Water=1):</b>                   | No information available                                     |
| <b>Flammability:</b>                                 | Non flammable  |
| <b>Upper/lower flammability or explosive limits:</b> | No information available                                     |
| <b>Vapor pressure:</b>                               | No information available                                     |
| <b>Vapor density (Air=1):</b>                        | No information available                                     |
| <b>Relative density:</b>                             | No information available                                     |
| <b>Solubility in water:</b>                          | Very soluble   |
| <b>Partition coefficient: n-octanol/water:</b>       | No information available                                     |
| <b>Auto-ignition temperature:</b>                    | No information available                                     |
| <b>Decomposition temperature:</b>                    | No information available                                     |
| <b>Viscosity:</b>                                    | No information available                                     |
| <b>Molecular formula:</b>                            | C <sub>2</sub> H <sub>10</sub> I <sub>2</sub> N <sub>2</sub> |
| <b>Molecular weight:</b>                             | 315.9 g/mol  |

### **SECTION 10: STABILITY AND REACTIVITY**

**Stability:** Stable under normal conditions of use. Protect from moisture and sunlight.

**Incompatibility:** Incompatible with oxidizers and acids.

**Hazardous Reactions/Decomposition Products:** Oxidation may liberate iodine fumes, hydrogen iodide and nitrogen oxides.

### **SECTION 11: TOXICOLOGICAL INFORMATION**

#### **Signs and Symptoms of Overexposure:**

**Eye Contact:** May cause irritation and burning.

**Skin Contact:** May cause irritation to sensitive skin.

**Inhalation:** Dust inhalation may be irritating to mucous membranes.

**Ingestion:** Data not available

#### **Acute Effects:**

**Eye Contact:** May cause irritation and tearing.

**Skin Contact:** May cause irritation. May cause sensitization in persons previously exposed.

**Inhalation:** Dust inhalation may cause mucus membrane and lung irritation.

**Ingestion:** In large quantities, can provoke gastro-intestinal disorders.

**Chronic Effects:** Some individuals may develop allergic reactions to EDDI. Other chronic effects not established.

**Medical Conditions Aggravated by Exposure:** Preexisting respiratory tract diseases

**Acute Toxicity Values:** No data available

### **SECTION 12: ECOLOGICAL INFORMATION**

**Bioaccumulation:** No information available

**Ecotoxicity:** No information available

### **SECTION 13: DISPOSAL CONSIDERATIONS**

**Waste Classification:** Non hazardous, but material in solution is corrosive.

**Disposal Methods:** Recycle or dispose in a chemical landfill in accordance with all local, state or federal regulations. Dispose packaging at an authorized site.

### **SECTION 14: TRANSPORT INFORMATION**

**TDG / USDOT Transportation Pictogram(s):** None

**U.S. Department of Transportation (DOT):**

|                               |                              |
|-------------------------------|------------------------------|
| Proper Shipping Name:         | ETHYLENEDIAMINE DIHYDRIODIDE |
| D.O.T. Label:                 | Chemical N.O.S.              |
| Hazard Class:                 | No data available            |
| UN/NA Number:                 | Not available                |
| Packing Group:                | No data available            |
| Labels (Pictograms) Required: | None                         |

**Maritime Organization (IMDG):**

|                               |                              |
|-------------------------------|------------------------------|
| Proper Shipping Name:         | ETHYLENEDIAMINE DIHYDRIODIDE |
| Hazard Class:                 | No data available            |
| UN/NA Number:                 | Not available                |
| Packing Group:                | No data available            |
| Labels (Pictograms) Required: | None                         |

**RID / ADR / IMO / IATA:** NOT REGULATED

### **SECTION 15: REGULATORY INFORMATION**

**U.S. Federal Regulations**

**Comprehensive Environmental Response and Liability Act of 1980 (CERCLA):**

Not listed for CERCLA Section 103 - Comprehensive Environmental Response, Compensation and Liability Act (Superfund). Releases to air, land or water of these hazardous substances which exceed the Reportable Quantity (RQ) must be reported to the National Response Center, (800-424-8802). Listed at 40 CFR 302.4.

**Toxic Substances Control Act (TSCA):**

Listed for TSCA, Flag None - Toxic Substances Control Act. Requirement to submit a pre-manufacturing notice before commencing the manufacture or import a new substance.

**Clean Water Act (CWA):**

Ethylenedimine Dihydriodide is not a hazardous substance under the Clean Water Act. Consult Federal, State and local regulations for specific requirements.

**Clean Air Act (CAA):**

Ethylenedimine Dihydriodide is not a hazardous substance under the Clean Air Act. Consult Federal, State and local regulations for specific requirements.

**Superfund Amendments and Reauthorization Act (SARA) Title III Information:**

**SARA 302 EHS RQ:** Not listed for SARA 302 EHS RQ - Reportable Quantity of Extremely Hazardous Substance listed at 40 CFR 355.

**SARA 302 EHS TPQ:** Not listed for SARA 302 EHS TPQ - Threshold Planning Quantity of Extremely Hazardous Substance. An asterisk (\*) following the Threshold Planning Quantity signifies that if the material is a solid and has a particle size equal to or larger than 100 micro-meters, the Threshold Planning Quantity = 10.000 LBS.

**SARA Section 313 :** Not listed for SARA Section 313 Chemicals - Toxic Substance subject to annual release reporting requirements listed at 40 CFR 372.65.

### European Inventory of Existing Chemicals (EINECS):

**EU Classification:** IRRITANT (Xi)

**Risk (R) Phrases:** R36/37/38: Irritating to eyes, respiratory system and skin.

**Safety (S) Phrases:** S20/21: When using it, do not eat, drink or smoke.  
S24/25: Avoid contact with skin and eyes.  
S36/37/39: Wear suitable protective clothing, gloves and eye/face protection.  
S46: If swallowed, seek medical advice (show the label where possible).

### SECTION 16: OTHER INFORMATION

**General References:** HSDB (Hazardous Substances Data Bank)  
IRIS (Integrated Risk Information System)  
ITER (International Toxicity Estimated for Risk)  
CCRIS (Chemical Carcinogenesis Research Information System)  
GENE-TOX (Genetic Toxicology)  
RTECS Registry of Toxic Effects of Chemical Substances)  
EPA (Environmental Protection Agency)  
ECB (European Chemicals Bureau)  
GHS (UN Globally Harmonized System of Classification and Labeling of Chemicals)  
CLP (EC Regulation No. 1272/2008)

**Revision Indicator:** GHS/CLP Safety Data Sheet in accordance with the United Nations Globally Harmonized System of Classification and Labeling of Chemicals Globally Harmonized System of Classification and Labeling of Chemicals and EC Regulation No. 1272/2008 concerning the Classification, Labeling and Packaging of Chemicals.

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