

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT IDENTIFIER	E.D.D.I 79.5% (Ethylenediamine Dihydriodide)
CHEMICAL NAME AND SYNONYMS	Ethylene diamine dihydroiodide, 1,2-ethanediamine dihydroiodide
PRODUCT USE	Nutritional source of iodine in animal feed.
IDENTIFICATION NUMBER	Not for human consumption.

Details of the supplier of the safety data sheet

Supplier	Pestell Nutrition
Address	141 Hamilton Rd New Hamburg, Ontario Canada, N3A 2H1
Phone	519-662-2877
Email	qa@pestell.com
Emergency telephone number (24 hr)	Canada: CANUTEC 1 613-996-6666 US: CHEMTREC 1 703-527-3887

2. HAZARDS IDENTIFICATION

NOT REGULATED

3. COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT	CONC.	CAS NUMBER	EC-No.	Molecular weight
Ethylenediamine dihydroiodide Formula : C ₂ H ₈ N ₂ · 2HI	100%	5700-49-2	227-186-8	315.92 g/mol

4. FIRST AID MEASURES

SKIN: Areas of the body that have come in contact with the product must be rinsed immediately with plenty of water for at least 15 minutes, while removing contaminated clothing and shoes. Wash clothing before reuse. Get medical attention.

EYES: Immediately flush with plenty of water for at least 15 minutes keeping eyelids opened. If irritation persists, get medical attention.

INHALATION: Move the person to fresh air and, keep the person warm and at rest. If breathing has stopped, give artificial respiration. In case of unwellness, call a physician.

INGESTION: If victim is conscious, rinse mouth with water. Never give anything by mouth to an unconscious person. Call a physician if irritation occurs.

5. FIREFIGHTING MEASURES

CONDITION OF FLAMMABILITY: Not flammable.

MEANS OF EXTINCTION: Water, dry chemical, carbon dioxide or alcohol foam for the surrounding fire.

UNSUITABLE MEANS OF EXTINCTION: Not applicable.

PRECAUTIONS FOR FIREFIGHTERS: Do not inhale combustion gases or dust. Use NIOSH-approved self-contained breathing apparatus and appropriate fire fighters' clothing.

HAZARDOUS COMBUSTION PRODUCTS: Toxic fumes of iodine, hydrogen iodide and nitrogen or sodium oxides.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: Avoid formation of dust. Avoid breathing vapours, mist or gas. Wear appropriate personal protective equipment.

PROCEDURES TO BE FOLLOWED IN CASE OF SPILL OR LEAK: contain the leak and collect material. Sweep and store in closed containers. Wash thoroughly after handling.

ENVIRONMENTAL PROTECTION: Dispose according to federal, provincial, municipal regulations.

7. HANDLING AND STORAGE

HANDLING PROCEDURES: Always wash hands with soap and water before handling food or smoking. Avoid contact with eyes, skin and clothing. Avoid breathing dust. Use in a well ventilated area. Keep containers closed, when not in use.

STORAGE PROCEDURES: Product is hygroscopic. Store in a dry area, away from sunlight or moisture and incompatible materials. Seal in air-tight containers. Store in a well-ventilated area.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: Safety shower and eyewash station to be in close vicinity.

EXPOSURE CONTROLS:

Personal Protective Equipment

Eye/face: Use equipment tested and approved under standards such as NIOSH (US) or EN166 (EU).

Skin: Handle with gloves, using proper glove removing technique to avoid skin contact with product. Use protective clothing for the body if necessary.

Respiratory: For protection from nuisance level dust, use type N95 (US) or P1 (EN 143).

SKIN CONTACT/ABSORPTION: Can cause irritation to the skin.

EYE CONTACT: Irritant. Do not wear contact lenses

INHALATION: Prolonged exposure to iodides may cause sinus irritation, headache, and irritation to the mucous membranes. Where ventilation is insufficient, wear approved dust respirator with cartridge.

INGESTION: In large quantities, can provoke gastro-intestinal disorders and excessive fatigue.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE	Solid	pH (water=7)	4,0- 5,0 (10% solution)
ODOR AND APPEARANCE	White, free-flowing crystals. Mild characteristic odour	SPECIFIC GRAVITY	Not determined
ODOR THRESHOLD	None	VAPOR DENSITY	Not determined
MELTING POINT	337°C appr	VAPOR PRESSURE	Not determined
BOILING POINT	Not available	EVAPORATION RATE	Not determined
SOLUBILITY (water)	Soluble	DECOMPOSITION TEMPERATURE	
FLASH POINT	Not applicable	AUTO IGNITION TEMPERATURE	Not applicable
UPPER FLAMMABLE LIMIT	Not applicable	MECHANICAL IMPACT SENSITIVITY	Not determined
LOWER FLAMMABLE LIMIT	Not applicable	STATIC DISCHARGE SENSITIVITY	Not determined

10. STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable under recommended storage conditions.

CONDITIONS TO AVOID: Do not store in humid conditions.

POSSIBILITY OF HAZARDOUS REACTIONS: reaction with water can release iodine.

INCOMPATIBLE SUBSTANCES: water, mettalic salts, alkalis, acids and oxidizers.

HAZARDOUS DECOMPOSITION PRODUCTS: Toxic fumes of iodine, hydrogen iodide and nitrogen or sodium oxides.

11. TOXICOLOGICAL INFORMATION

EXPOSURE LIMIT	Not available	SHORT TERM EXPOSURE LIMIT	Not available
CARCINOGENICITY	Not listed by IARC, OSHA, NTP	SENSITIZATION TO PRODUCT	Possible
TERATOGENICITY	Not available	MUTAGENICITY	Not available
SYNERGISTIC PRODUCTS	Not available	REPRODUCTIVE TOXICITY	Not available
IRRITANCY OF PRODUCT	Irritant		

SYMPTOMS OF EXPOSURE:

SKIN CONTACT/ABSORPTION: After abnormal exposure levels, or prolonged exposure, skin may become irritated and demonstrate redness, pain, dryness and itching.

EYE CONTACT: May cause eye irritation as evidenced by pain, redness and tearing of eyes. Do not wear contact lenses.

INHALATION: May be irritating to respiratory tract under normal conditions Increased nasal mucous membrane production and increased tears in eyes may occur upon breathing dust. Prolonged exposure to iodides may cause sinus irritation, headache, and irritation to the mucous membranes.

INGESTION: Product considered to be of low toxicity, although in large quantities, can provoke gastro-intestinal disorders and excessive fatigue.

ACUTE/CHRONIC EXPOSURE EFFECTS: Possibility of dermatitis. Prolonged exposure to iodides may cause skin rash, sinus irritation, headache, and irritation to the mucous membranes.

To the best of our knowledge the chemical, physical and toxicological properties have not been thoroughly investigated.

Hazardous properties cannot be excluded.

The following applies to iodides in general: Sensitisation is possible in predisposed persons.

Handle in accordance with good industrial hygiene and safety practice.

12. ECOLOGICAL INFORMATION

ECOTOXICITY: No data available.

BIOACCUMULATIVE POTENTIAL: no data available.

MOBILITY IN SOIL: no data available.

PBT AND vPvB ASSESSMENT: not required.

13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL: Dispose of in accordance with federal, provincial and local regulation.

CONTAMINATED PACKAGING: dispose of as unused product.

14. TRANSPORT INFORMATION

GROUND TRANSPORT

TDG (Canada) Not regulated as dangerous goods.

DOT (US) Not regulated as dangerous goods.

MARINE TRANSPORT

IMDG/IMO Not regulated as dangerous goods.

AIR TRANSPORT

IATA Not regulated as dangerous goods.

15. REGULATORY INFORMATION

UN-NUMBER: Not classified

TSCA: Listed.

RCRA: Not listed.

CERCLA: Not listed.

SARA 302: Not listed.in Section 302 and 313

CWA: Not listed.

WHIMISH: Not controlled.

16. OTHER INFORMATION

Disclaimer

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. Pestell Nutrition and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product.

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