

FEBRUARY 1999

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SECTION I. PRODUCT IDENTIFICATION

Chemical Name: Iodic Acid, Calcium Salt
Common Name: Calcium Iodate
Product Name: Calcium Iodate
CAS Number: 7789-80-2
Chemical Formula: Ca(IO3)2;Ca(IO3)2-H2O
Product Use: Nutritional source of iodine in animal feeds
(anhydrous); dough conditioner (monohydrate).

SECTION II. HAZARDOUS INGREDIENTS

Chemical Name	Common Name	CAS NO.	%	OSHA PEL	ACGIH TLV-TWA
Iodic Acid, Calcium Salt	Calcium Iodate	7789-80-2	97.5+	NE	NE

CERCLA RATINGS (SCALE 0-3): Health=3 Fire=0 Reactivity=0 Persistence=3
NFPA RATINGS (SCALE 0=4): Health=2 Fire=0 Reactivity=0

SECTION III. PHYSICAL DATA

Boiling Point, (760mm Hg.) : Decomposes 540 deg. C.
Specific Gravity (Water=1) : 4.5
Vapor Pressure (mm Hg) : N/A
% Non-Volatile : 100
Vapor Density (AIR=1) : N/A
Evaporation Rate (Ether=1) : N/A
Solubility in Water : 0.10 g/100 ml @ 10 deg.C.
pH : 5-7
Appearance : White to creamy crystalline powder
Odor : Possible slight acrid

SECTION IV. FIRE AND EXPLOSION HAZARD DATA

Flash Point Deg. F.: N/A
Flammable Limits: Lel - N/A Uel - N/A
Method Used: N/A

Extinguishing Media: Dry chemical, carbon dioxide, or alcohol foam.

Special Fire Fighting Procedures:

No acute hazard; avoid breathing vapors or dust.
Wear self-contained positive pressure breathing apparatus.

Unusual Fire and Explosion Hazards:

None

Hazardous Decomposition Products:

Toxic fumes of iodine, hydrogen iodide and oxides of calcium.

SECTION V. REACTIVITY DATA

Stability:

Stable.

Conditions to Avoid: Heat above 540 deg. C. (decomposes).

Incompatibility: (Materials to Avoid) - Combustibles and reducing agents.
Aluminum, copper, arsenic, phosphorous, sulfur or carbon mixed with iodates may explode on heating.

Can Hazardous Polymerization Occur: Not known to occur.

Hazardous Decomposition Products and Conditions:

Thermal decomposition products are toxic fumes of iodine, hydrogen iodide and oxides of calcium.

SECTION VI. HEALTH HAZARD DATA

Oral Toxicity:

Not established. Calcium iodate is considered to have a relatively low level of toxicity. However, there is insufficient data available to fully characterize the toxicity of this product. Substance may be absorbed by inhalation or ingestion.

Dermal Toxicity:

Acute exposure: No data available.
Chronic exposure: No data available.

Inhalation:

Acute exposure: May cause mucous membrane irritation.
Chronic exposure: No data available.

Chronic Toxicity:

No data available.

Mutagenesis:

No data available.

Effects of Overexposure:

Ingestion: No effects have been reported in humans. However, animal experiments have shown iodate salts to cause nephrotoxic and hemolytic effects with the ingestion of large doses.

Skin Contact: No effects have been reported in humans.

Eye Contact: May cause irritation, redness and swelling. Other data not available.

Inhalation: May cause lung congestion. Other data not available.

Acute Systemic Effects: No data available.

Chronic Systemic Effects: No data available.

EMERGENCY AND FIRST AID PROCEDURES

Eye Contact: Wash eyes immediately with large amounts of water, occasionally lifting upper and lower lids until no evidence of chemical remains, (15-20 min.). Get medical attention.

Skin Contact: Remove contaminated clothing and shoes. Wash affected area with mild detergent and large amounts of water until no evidence of chemicals remain. Get medical attention if needed.

Inhalation: Remove from exposure area to fresh air immediately. If breathing has stopped, give artificial respiration. Keep affected persons warm and at rest. Get medical attention.

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

SECTION VII. PRECAUTIONS FOR SAFE HANDLING AND USE

SPILL OR LEAK PROCEDURES

Response to Small Spills: Sweep up and collect in a suitable container.

Response to Large Spills: Prevent dispersion of dust into atmosphere. Sweep up and collect in suitable (e.g. glass or plastic) container. Keep from sewer or water sources.

Hazards to be Avoided: Avoid breathing dust.

Reportable Quantity: Data not available.

Waste Classification: Non-hazardous.

Disposal Methods: Recycle or ship to approved chemical waste facility in accordance with all federal, state, or local regulations.

LABELING INFORMATION

DOT Shipping Name: Calcium Iodate
DOT Label: Chemical N.O.S.
UN No.: N/A

SECTION VIII. CONTROL MEASURES

SPECIAL PROTECTION INFORMATION

Respiratory Protection: High efficiency particulate respirator necessary.

For Hands, Body: Wear appropriate protective gloves and garments to prevent bodily contact.

For Eyes: Wear splash-proof or dust resistant safety goggles to prevent contact with this substance.

Ventilation: Provide local exhaust or general dilution ventilation.

SPECIAL PRECAUTIONS

Other Precautions: None.

REGULATORY STATUS

Hazard Categories for SARA
Section 311/312 Reporting

	Acute ----- x	Chronic ----- x	Fire -----	Pressure -----	Reactive -----		
Product or Component of Products:		CERCLA Sec.103 RQ lbs	RCRA Sec. 261.33	SARA EHS Sec. 302 RQ TPQ	SARA 313 Chemicals Name List	Chemical Category	
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CALCIUM IODATE (7789-80-2)		No	No	No No	No	No	No

SARA Section 302 EHS RQ:
Reportable Quantity of Extremely Hazardous Substance, listed at 40 CFR 355

SARA Section 302 EHS TPQ:
Threshold Planning Quantity of Extremely Hazardous Substance. An asterisk (*) following a Threshold Planning Quantity signifies that if the material is a solid and has a particle size equal to or larger than 100 micrometers, the Threshold Planning Quantity = 10,000 LB.

SARA Section 313 Chemicals:
Toxic Substances subject to annual release reporting requirements listed at 40 CFR 372.65.

CERCLA Sec.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.

RCRA:
Resource Conservation and Reclamation Act. Commercial chemical product wastes designated as acute hazards and toxic under 40 CFR 261.33.

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