



Section 1. Product and Company Identification

Product Name Lithium Iodide Trihydrate
CAS Number 7790-22-9

Parchem - fine & specialty chemicals

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EMERGENCY RESPONSE NUMBER
CHEMTEL

Toll Free US & Canada: 1 (800) 255-3924

All other Origins: 1 (813) 248-0585

Collect Calls Accepted

Section 2. Hazards Identification

Classification of the substance or mixture

OSHA regulatory status: This product is considered not hazardous under 29 CFR 1910.1200 (Hazard Communication).

GHS Label Elements

Pictograms: N/A

Signal word: N/A

Hazard and precautionary statements

None

Routes of exposure: Inhalation. Eye contact.

Eyes: Dust or powder may irritate eye tissue.

Skin: Health injuries are not known or expected under normal use.

Inhalation: Inhalation of dusts may cause respiratory irritation.

Ingestion: Health injuries are not known or expected under normal use.

Potential environmental effects: Ecological injuries are not known or expected under normal use.

Section 3. Composition / Information on Ingredients

Common Name Lithium Iodide Trihydrate

Formula $\text{LiI} \cdot 3\text{H}_2\text{O}$

CAS Number 7790-22-9

COMPONENT	CAS NUMBER	CONCENTRATION
Lithium Iodide Trihydrate	7790-22-9	90 – 100%



Section 4. First Aid Measures

First aid procedures

Eye contact: Rinse with water. Get medical attention if irritation develops or persists.

Skin contact: Rinse skin with water/shower. Get medical attention if irritation develops or persists.

Inhalation: If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Call a physician if symptoms develop or persist.

Ingestion: If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Call a physician if symptoms develop or persist.

General Advice: If you feel unwell, seek medical advice (show the label where possible).

Section 5. Firefighting Measures

Flammable properties: The product is not flammable. Not a fire hazard.

Suitable extinguishing media: Water. Water fog. Foam. Dry chemical powder. Carbon dioxide (CO₂). Use extinguishing agent suitable for type of surrounding fire.

Protective equipment and precautions for firefighters: In the event of fire, cool tanks with water spray. Use water spray to cool unopened containers. Cool containers exposed to flames with water until well after the fire is out.

Specific Methods: In the event of fire, cool tanks with water spray. Use water spray to cool unopened containers

Section 6. Accidental Release Measures

Personal precautions: Keep unnecessary personnel away. Local authorities should be advised if significant spillages cannot be contained.

Environmental precautions: Prevent further leakage or spillage if safe to do so.

Methods for cleaning up: Sweep up or vacuum up spillage and collect in suitable container for disposal. Avoid dust formation. Following product recovery, flush area with water.

Section 7. Handling and Storage

Handling: Use only with adequate ventilation. Wash thoroughly after handling. Handle and open container with care.

Storage: Use care in handling/storage. Keep the container tightly closed and dry.

Section 8. Exposure Controls / Personal Protection

Engineering Controls: Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

Respiratory protection: No personal respiratory protective equipment normally required. Dust



safety masks are recommended when the dust concentration is more than 10 mg/m³.

Hand protection: Not normally needed

Eye / face protection: Safety glasses

Skin protection: No special protective equipment required.

General hygiene considerations: Handle in accordance with good industrial hygiene and safety practice.

General: Not normally needed.

Section 9. Physical and Chemical Properties

Appearance: Crystalline.

Color: White

Odor: Odorless

Odor threshold: Not available

Physical state: Solid

Form: Solid

pH: 5.5 - 8.5 (5% aqueous solution.)

Melting point: 163.4 °F (73 °C)

Freezing point: Not available

Boiling point: Not available

Flash point: Not available

Evaporation rate: Not available

Flammability: Not available

Flammability limits in air, upper, % by volume: Not available

Flammability limits in air, lower, % by volume: Not available

Vapor pressure: Not available

Vapor density: Not available

Specific gravity: 3.5

Relative density: Not available

Solubility (water): 1510 g/l @ 20 c

Partition coefficient (n-octanol/water): Not available

Auto-ignition temperature: Not available

Decomposition temperature: Not available

Molecular weight: 187.8900

Section 10. Stability and Reactivity

Chemical stability: Stable at normal conditions.

Conditions to avoid: Exposure to light. Exposure to air or moisture over prolonged periods

Incompatible materials: None known

Hazardous decomposition products: No hazardous decomposition products are known



Section 11. Toxicological Information

Carcinogenicity: This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA

Further information: This product has no known adverse effect on human health.

Section 12. Ecological Information

Ecotoxicity: This product has no known eco-toxicological effects.

Persistence and degradability: Not available.

Section 13. Disposal Considerations

Waste Treatment Methods: Dispose of product and contaminated packaging in accordance with all local, state, and federal environmental control regulations.

Section 14. Transport Information

DOT: Not regulated as dangerous goods.

Section 15. Regulatory Information

US federal regulations: This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. All components are on the U.S. EPA TSCA Inventory List.

CERCLA/SARA Hazardous Substances: Not applicable

CERCLA (Superfund) reportable quantity: None

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Immediate Hazard: No

Delayed Hazard: No

Fire Hazard: No

Pressure Hazard: No

Reactivity Hazard: No

Section 302 extremely hazardous substance: No

Section 311 hazardous chemical: No

Inventory Status

Country or Region	Inventory name	On Inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	No



Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of New and Existing Chemicals (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	No

* A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

State regulations: This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

HMIS

Health: 1

Flammability: 0

Physical hazard: 0

NFPA

Health: 1

Flammability: 0

Instability: 0

Section 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.

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