





(Contd. on page 3)

Product name: Lithium iodide	
	(Contd. of page 1)
 4 First-aid measures Description of first aid measures After inhalation Supply fresh air. If required, provide artificial respiration. Keep patient warm. Seek immediate medical advice. After skin contact Immediately wash with water and soap and rinse thoroughly. Seek immediate medical advice. After eye contact Rinse opened eye for several minutes under running water. Then consult a doctor. After swallowing Seek medical treatment. Information for doctor Most important symptoms and effects, both acute and delayed Gastric or intestinal disorders. Nausea Indication of any immediate medical attention and special treatment needed No further relevant information available. 	
5 Fire-fighting measures	
Extinguishing media Suitable extinguishing agents Product is not flammable. Use fire-fighting measures that suit the surrounding fire. Special hazards arising from the substance or mixture If this product is involved in a fire, the following can be released: Hydrogen iodide (HI) Advice for firefighters Protective equipment: Wear self-contained respirator. Wear fully protective impervious suit.	
6 Accidental release measures	
Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation Environmental precautions: Do not allow material to be released to the environment without proper governmental permits. Methods and material for containment and cleaning up: Dispose of contaminated material as waste according to section 13. Ensure adequate ventilation. Prevention of secondary hazards: No special measures required. Reference to other sections See Section 7 for information on safe handling See Section 8 for information on personal protection equipment. See Section 13 for disposal information.	
7 Handling and storage	
Handling Precautions for safe handling Handle under dry argon. Keep container tightly sealed. Store in cool, dry place in tightly closed containers. Ensure good ventilation at the workplace. Prevent formation of dust. Information about protection against explosions and fires: The product is not flammable Conditions for safe storage, including any incompatibilities Storage Requirements to be met by storerooms and receptacles: No special requirements. Information about storage in one common storage facility: No information known. Further information about storage conditions: Keep container tightly sealed. Store in cool, dry conditions in well sealed containers. Store in cool, dry conditions in well sealed containers. Specific end use(s) No further relevant information available.	
8 Exposure controls/personal protection	
Additional information about design of technical systems: Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute. Control parameters Components with limit values that require monitoring at the workplace: Not required. Additional information: No data	
Exposure controls Personal protective equipment General protective and hygienic measures The usual precautionary measures for handling chemicals should be followed. Keep away from foodstuffs, beverages and feed. Remove all soiled and contaminated clothing immediately. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin. Maintain an ergonomically appropriate working environment. Breathing equipment: Use suitable respirator when high concentrations are present. Protection of hands: Impervious gloves Check protective gloves prior to each use for their proper condition. The selection of suitable gloves not only depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer. Eye protection: Safety glasses Body protection: Protective work clothing.	
9 Physical and chemical properties	
Information on basic physical and chemical properties General Information Appearance: Form: Powder	
	(Contd. on page 3)

Product name: Lithium iodide

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Color:	(C White	contd. of page 2)
Odor: Odor: Odor threshold:	Volite Odorless Not determined.	
pH-value:	Not determined.	
Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start:	73 °C (163 °F) ((-H2O)) Not determined Not determined	
Flash point: Flammability (solid, gaseous) Ignition temperature: Decomposition temperature: Auto igniting:	Not applicable Product is not flammable. Not determined Not determined Not determined.	
Danger of explosion: Explosion limits:	Product does not present an explosion hazard.	
Density at 20 °C (68 °F): Relative density Vapor density Evaporation rate Solubility in / Miscibility with	Not determined Not determined Not applicable. 3.43 g/cm ³ (28.623 lbs/gal) Not determined. Not applicable. Not applicable.	
Water at 0 °C (32 °F): Partition coefficient (n-octanol/water): Viscosity: dynamic:	1510 g/l Not determined. Not applicable.	
kinematic: Other information	Not applicable. No further relevant information available.	
Chemical stability Stable under recommended storage conditions. Thermal decomposition / conditions to be avoided: Decomposition will not occur if used and stored according to specifications. Possibility of hazardous reactions No dangerous reactions known Conditions to avoid No further relevant information available. Incompatible materials: Oxidizing agents No information known. Hazardous decomposition products: Hydrogen iodide (HI)		
Reproductive foxicity: May damage fer Specific target organ system toxicity - Aspiration hazard: No effects known. Subacute to chronic toxicity: Large amounts of lithium compounds ma pressure. Central nervous system effect neuromuscular effects such as tremor, ai dehydration, weight loss, dermatological Prolonged exposure to iodides may caus boils, redness, black and blue spots, hive Subacute to chronic toxicity: No effect	in irritation. ious eye irritation. ough skin contact. wn. on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH. tility or the unborn child. repeated exposure: No effects known. single exposure: May cause respiratory irritation. y cause vomiting, diarrhea, ataxia, intestinal irritation, kidney injury, central nervous system depression and a c s may include slurred speech, blurred vision, dizziness, sensory loss, convulsions and stupor. Chronic intaker taxia, weakness, clonus and hyperactive reflexes. Lithium can cause kidney damage, gastrointestinal disturbal effects and thyroid damage. Lithium ion has shown teratogenic effects in rats and mice. te skin rash, running nose, headache and irritation of the mucous membranes. In severe cases the skin may si se and blisters. Iodides are readily diffused across the placenta.	drop in blood may cause nces, fatigue, how pimples,
12 Ecological information Toxicity Aquatic toxicity: No further relevant information available. Persistence and degradability No further relevant information available. Bioaccumulative potential No further relevant information available. Mobility in soil No further relevant information available. Additional ecological information: General notes: Do not allow material to be released to the environment without proper governmental permits. Do not allow undiluted product or large quantities to reach ground water, water course or sewage system. Avoid transfer into the environment. Results of PBT and vPvB assessment PBT: Not applicable. VPvB: Not applicable. Other adverse effects No further relevant information available.		
13 Disposal considerations		
Waste treatment methods Recommendation Consult state, local o	r national regulations to ensure proper disposal.	ontd. on page 4
		USA -

USA -

	Reviewed on 09/26/2003
Product name: Lithium iodide	
Uncleaned packagings: Recommendation: Disposal must be made according to official regu	(Contd. of page 3) julations.
14 Transport information Not a hazardous material for transportation.	
UN-Number DOT, IMDG, IATA	None
UN proper shipping name DOT, IMDG, IATA	None
Transport hazard class(es) DOT, ADR, IMDG, IATA Class	
Class Packing group DOT, IMDG, IATA	None
Environmental hazards:	Not applicable.
Special precautions for user	Not applicable.
Transport in bulk according to Annex II of MARPOL73/78 and th	
Transport in burk according to Annex if of MARFOL73/78 and un Transport/Additional information:	Not dangerous according to the above specifications.
DOT	
Marine Pollutant (DOT):	No
P405 Store locked up. P501 Dispose of contents/container in accordance with National regulations All components of this product are listed in the U.S. Environmental F SARA Section 313 (specific toxic chemical listings) Substance is California Proposition 65 Prop 65 - Chemicals known to cause cancer Substance is not listed. Prop 65 - Developmental toxicity, Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Information about limitation of use: For use only by technically qu Other regulations, limitations and prohibitive regulations Substance of Very High Concern (SVHC) according to the REAC	rotection/face protection. eral minutes. Remove contact lenses, if present and easy to do. Continue rinsing. h local/regional/national/international regulations. Protection Agency Toxic Substances Control Act Chemical substance Inventory. s not listed. ted. ualified individuals. CH Regulations (EC) No. 1907/2006. Substance is not listed. x XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the for use) Substance is not listed.
 16 Other information Employers should use this information only as a supplement to other information to ensure proper use and protect the health and safety or conformance with this Material Safety Data Sheet, or in combination Department issuing SDS: Global Marketing Department Date of preparation / last revision 11/24/2015 / - Abbreviations and acronyms: IMDE: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Maritime Code for Dangerous Goods DOT: US Department of Transportation EANE Comparison of the American Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) HMIS: Hazardous Materials Information System (Canada) LC50: Lethal concentration, 50 percent LO50: Lethal concentration, 50 percent VPB: very Persistent and very Bioaccumulative ACGIH: American Conference of Governmental Industrial Hygienists (USA) OSHA: Occupational Safety and Health Administration (USA) NTP: National Toricolony Program (IISA) 	er information gathered by them, and should make independent judgement of suitability of this of employees. This information is furnished without warranty, and any use of the product not in n with any other product or process, is the responsibility of the user.

- ACGIH: Ámerican Conferencé of Governmental Industrial Hygi OSHA: Occupational Safety and Health Administration (USA) NTP: National Toxicology Program (USA) IARC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA)