

1. PRODUCT AND COMPANY IDENTIFICATION

Product Code: SBLFI
Product Name: SB-LFI
Company Name: Shepard Bros., Inc.
503 S. Cypress St.
La Habra, CA 90631
Phone Number: +1 (562)697-1366
Web site address: www.shepardbros.com
Emergency Contact: CHEMTREC +1 (800)424-9300
Product Category: Microbiocide

2. HAZARDS IDENTIFICATION

Aquatic Toxicity (Acute), Category 2
Skin Corrosion/Irritation, Category 2
Serious Eye Damage/Eye Irritation, Category 2B



GHS Signal Word: **Warning**

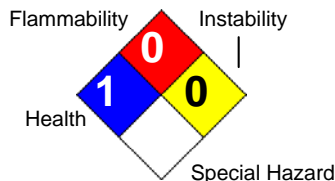
GHS Hazard Phrases: H401 - Toxic to aquatic life.
H315 - Causes skin irritation.
H320 - Causes eye irritation.

GHS Precaution Phrases: P273 - Avoid release to the environment.
P264 - Wash hands thoroughly after handling.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.

GHS Response Phrases: P304+340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P315 - Get immediate medical advice/attention.
P301+330+331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P315 - Get immediate medical advice/attention.
P302+352 - IF ON SKIN: Wash with plenty of soap and water. Get medical aid if irritation develops and persists.
P305+351+338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical aid if irritation develops and persists.
P321 - Specific treatment see Section 4 reference to supplemental first aid instruction - if immediate measures are required.

GHS Storage and Disposal Phrases: P501 - Dispose of contents/containers in accordance with local / regional / national / international regulations.

Hazard Rating System:





**Potential Health Effects
(Acute and Chronic):**

Inhalation: Mists may cause mild irritation of the upper respiratory tract. May cause nausea. May cause dizziness.

Skin Contact: May cause skin irritation.

Eye Contact: May cause eye irritation. May cause stinging, tearing, redness, and swelling.

Ingestion: May cause gastrointestinal irritation with nausea, vomiting and diarrhea.

3. COMPOSITION/INFORMATION ON INGREDIENTS

CAS #	Hazardous Components (Chemical Name)	Concentration
7553-56-2	Iodine	1.00 - 5.00 %

4. FIRST AID MEASURES

**Emergency and First Aid
Procedures:**

In Case of Inhalation: Remove from exposure and move to fresh air immediately. If breathing is difficult, give oxygen. If breathing has ceased apply artificial respiration using oxygen and a suitable mechanical device such as a bag and a mask. Get immediate medical advice/attention.

In Case of Skin Contact: Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Gently wash with plenty of soap and water. Wash contaminated clothing separately before reuse. Get medical aid if irritation develops and persists.

In Case of Eye Contact: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Remove contact lenses, if present and easy to do after 5 minutes and continue rinsing for an additional 15 minutes. Get medical aid if irritation develops and persists.

In Case of Ingestion: Do NOT induce vomiting. If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get immediate medical advice/attention.

Note to Physician: Treat symptomatically and supportively. Show this safety data sheet to the doctor in attendance.

5. FIRE FIGHTING MEASURES

Flash Pt: NA Method Used: Not Applicable

Explosive Limits: LEL: No data. UEL: No data.

Autoignition Pt: NA

Suitable Extinguishing Media: Foam, CO2, water fog, sand/earth.

Fire Fighting Instructions: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH approved (or equivalent), and full protective gear.

Flammable Properties and Hazards: High temperatures and fire conditions can result in the formation of carbon monoxide and carbon dioxide, iodine vapors, Hydrogen iodide.



6. ACCIDENTAL RELEASE MEASURES

Protective Precautions, Protective Equipment and Emergency Procedures: Use proper personal protective equipment as indicated in Section 8.

Environmental Precautions: Do not let product enter drains, sewers, watersheds or water systems.

Steps To Be Taken In Case Material Is Released Or Spilled: Provide ventilation. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Contain spill using an inert diking material. Transfer material into an approved container for possible recovery and reuse or for disposal. Floors may become slippery.

7. HANDLING AND STORAGE

Precautions To Be Taken in Handling: Use as directed. Avoid contact with skin and eyes. Wash thoroughly after handling. Wash hands before eating. Remove contaminated clothing and wash before reuse.

Precautions To Be Taken in Storing: Store in a cool, dry, well-ventilated area away from incompatible substances. Keep away from heat, sparks and flame. Do not store in direct sunlight. Store in a tightly closed container. Keep container closed when not in use. Protect containers against damage.

Other Precautions: Handle in accordance with good industrial hygiene and safety practices. Keep out of reach of children.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

CAS #	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits
7553-56-2	Iodine	PEL: 1 mg/m3 CEIL: 0.1 ppm	TLV: 0.1 ppm CEIL: 0.1 ppm	No data.

Respiratory Equipment (Specify Type): Avoid breathing vapors and mists. If ventilation is not sufficient to effectively prevent buildup of vapors or mists and the exposure limit is exceeded, use a NIOSH/MSHA approved respirator. NIOSH/MSHA organic vapor respirator.

Eye Protection: Wear safety glasses with side shields or chemical splash goggles. A full-face shield is recommended where there is a potential for eye contact.

Protective Gloves: Wear appropriate gloves to prevent skin exposure. Rubber or neoprene gloves.

Other Protective Clothing: Wear appropriate protective clothing to prevent skin exposure. Chemical resistant apron. Rubber or neoprene boots.

Engineering Controls (Ventilation etc.): Ensure adequate ventilation. Local exhaust is suggested for use in enclosed or confined areas. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

Work/Hygienic/Maintenance Practices: Handle in accordance with good industrial hygiene and safety practice.



9. PHYSICAL AND CHEMICAL PROPERTIES

Physical States:	[] Gas [X] Liquid [] Solid
Appearance and Odor:	Appearance: Dark brown. Liquid. Odor: Odorless.
Freezing Point:	32.0 F (0 C)
Boiling Point:	NA
Decomposition Temperature:	NA
Autoignition Pt:	NA
Flash Pt:	NA Method Used: Not Applicable
Explosive Limits:	LEL: No data. UEL: No data.
Specific Gravity (Water = 1):	1.03
Density:	8.6 LB/GA
Bulk density:	NA
Vapor Pressure (vs. Air or mm Hg):	NA
Vapor Density (vs. Air = 1):	NA
Evaporation Rate:	NA
Solubility in Water:	Complete
Saturated Vapor Concentration:	NA
Viscosity:	NA
pH:	1.5
Percent Volatile:	NA
VOC / Volume:	NA
Particle Size:	NA
Heat Value:	NA
Corrosion Rate:	NA

10. STABILITY AND REACTIVITY

Reactivity:	High temperatures and fire conditions can result in the formation of carbon monoxide and carbon dioxide, iodine vapors, Hydrogen iodide.
Stability:	Unstable [] Stable [X]
Conditions To Avoid - Instability:	High temperatures, Incompatible materials.
Incompatibility - Materials To Avoid:	Strong reducing agents, Alkalis, Chlorinated products.
Hazardous Decomposition Or Byproducts:	High temperatures and fire conditions can result in the formation of carbon monoxide and carbon dioxide, iodine vapors, Hydrogen iodide.
Possibility of Hazardous Reactions:	Will occur [] Will not occur [X]
Conditions To Avoid - Hazardous Reactions:	No data available.



11. TOXICOLOGICAL INFORMATION

Toxicological Information:	Epidemiology: No data available. Reproductive Effects: Reproductive effects have been reported in animals. Teratogenicity: There are many reported cases of women taking iodine-containing drugs during pregnancy and having newborns with congenital goiter, a potentially life-threatening condition for the fetus or infant. Mutagenicity: No information found. Neurotoxicity: No data available. Other Studies: Iodine LD50, Oral: 1400 mg/kg LC50, Inhalation: 137 ppm.
Carcinogenicity/Other Information:	CAS# 7553-56-2: Not listed by ACGIH, IARC, NTP, or CA Prop 65.
Carcinogenicity:	NTP? No IARC Monographs? No OSHA Regulated? No

12. ECOLOGICAL INFORMATION

General Ecological Information:	EPA Registration Number: 4959-18-50600 This chemical is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemicals. The hazard information required on the pesticide label is reproduced below. The pesticide label also includes other important information, including directions for use. This pesticide is toxic to fish and aquatic organisms. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.
Results of PBT and vPvB assessment:	Other Studies: CAS# 7553-56-2: LC50, Rainbow trout (<i>Oncorhynchus mykiss</i>), fry, 530 ug/L, 96H, Mortality LC50, Water Flea (<i>Daphnia magna</i>), 160 ug/L, 48H, Mortality.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method:	Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification. Observe all federal, state, and local environmental regulations. RCRA P-Series: None listed. RCRA U-Series: None listed.
-------------------------------	---

14. TRANSPORT INFORMATION

LAND TRANSPORT (US DOT):

DOT Proper Shipping Name: Corrosive liquid, acidic, inorganic, n.o.s. (Contains Iodine)
DOT Hazard Class: 8 CORROSIVE
UN/NA Number: UN3264 **Packing Group:** II



15. REGULATORY INFORMATION

EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists

CAS #	Hazardous Components (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
7553-56-2	Iodine	No	No	No

CAS #	Hazardous Components (Chemical Name)	Other US EPA or State Lists
7553-56-2	Iodine	TSCA: Inventory; CA PROP.65: No; CA TAC, Title 8: Title 8

Regulatory Information: EPA Registration Number: 4959-18-50600
 This chemical is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemicals. The hazard information required on the pesticide label is reproduced below. The pesticide label also includes other important information, including directions for use.

CAUTION. Avoid contact with food. Causes moderate eye injury. Avoid contact with eyes, skin or clothing. Wash thoroughly with soap and water after handling.

16. OTHER INFORMATION

Revision Date: 12/09/2013
Additional Information About This Product: No data available.

Company Policy or Disclaimer: Information presented herein is believed to be accurate and reliable to the best of our knowledge. However, we make no warranty or merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process. Users should make their own investigations to determine the suitability of the information for their particular purposes.