

SECTION 1 - Chemical Product & Company Identification

Product Name I3C Phasing Kit

Product Number HR3-133

Company Hampton Research

Street Address 34 Journey

City, State, Zip, Country Aliso Viejo, CA 92656, USA

Technical Phone 949 425 1321

Fax 949 425 1611

Emergency Phone 949 425 1321

For **CHEMTREC** Assistance, call: 800 424 9300

For International **CHEMTREC** Assistance, call: 703 527 3887

SECTION 2 - Composition / Information on Ingredient

Substance Name	Formula	CAS #	SARA	RTECS	LD50
5-Amino-2,4,6-triiodoisophthalic acid	C ₈ H ₄ I ₃ NO ₄	35453-19-1	no	N/A	N/A
Lithium hydroxide	LiOH	1310-65-2	no	OJ6307070	210 mg/kg (Rat)

SECTION 3 - Hazards Identification

5-Amino-2,4,6-triiodoisophthalic acid	Lithium hydroxide
ACUTE HEALTH EFFECTS	EMERGENCY OVERVIEW
<ul style="list-style-type: none"> Harmful if ingested or inhaled. Minimize exposure to this material. Severe overexposure can result in injury or death. Irritating to eyes and skin on contact. 	<ul style="list-style-type: none"> Corrosive. Harmful if swallowed. Causes severe burns. Target organ(s): Kidneys. Nerves.
<ul style="list-style-type: none"> Inhalation causes irritation of the lungs and respiratory system. 	HMIS RATING
<ul style="list-style-type: none"> Inflammation of the eye is characterized by redness, watering, and itching. 	HEALTH: 3 *
<ul style="list-style-type: none"> Skin inflammation is characterized by itching, scaling, reddening, or occasionally blistering. 	FLAMMABILITY: 0
<ul style="list-style-type: none"> Follow safe industrial hygiene practices and ALWAYS wear proper protective equipment when handling this compound. 	REACTIVITY: 3
	NFPA RATING
	HEALTH: 3
	FLAMMABILITY: 0
	REACTIVITY: 0
* Additional chronic hazards present. For additional information on toxicity, please refer to SECTION 11 .	

SECTION 4 - First Aid Measures

ORAL EXPOSURE

- INDUCE VOMITING by sticking finger in throat. Lower the head so that the vomit will not reenter the mouth and throat
- Loosen tight clothing such as a collar, tie, belt or waistband.
- If the victim is not breathing, perform mouth-to-mouth resuscitation. Examine the lips and mouth to ascertain whether the tissues are damaged, a possible indication that the toxic material was ingested; the absence of such signs, however, is not conclusive.
- Call a physician immediately.

INHALATION EXPOSURE

- If inhaled, remove to fresh air. If not breathing give artificial respiration.
- If breathing is difficult, GIVE OXYGEN.
- Call a physician.

DERMAL EXPOSURE

- In case of contact, immediately wash skin with soap and copious amounts of water for at least 15 minutes.
- Remove contaminated clothing and shoes.
- Wash clothing and thoroughly clean shoes before reuse.
- Call a physician.

EYE EXPOSURE

- Check for and remove any contact lenses.
- In case of contact with eyes, flush with copious amounts of water for at least 15 minutes.
- Assure adequate flushing by separating the eyelids with fingers.
- Call a physician.

SECTION 5 - Fire Fighting Measures

FLASH POINT

N/A

AUTOIGNITION TEMPERATURE

N/A

EXPLOSION LIMITS

N/A

FLAMMABILITY

N/A

EXTINGUISHING MEDIA

- SMALL FIRE: Use dry chemical powder.
- LARGE FIRE: Use water spray, fog, or foam. DO NOT use water jet. Consult with local fire authorities before attempting large scale fire-fighting operations.

FIREFIGHTING

- Protective Equipment: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.
- Specific Hazard(s): Emits toxic fumes under fire conditions.

SECTION 6 - Accidental Release Measures

PROCEDURE TO BE FOLLOWED IN CASE OF LEAK OR SPILL

- Evacuate area.

PROCEDURE(S) OF PERSONAL PRECAUTIONS

- Wear self-contained breathing apparatus, rubber boots, and heavy rubber gloves.

METHODS FOR CLEANING UP

- Cover with dry lime or soda ash, pick up, keep in a closed container, and hold for waste disposal.
- Ventilate area and wash spill site after material pickup is complete.
- Consult federal, state, and/or local authorities for assistance on disposal.

SECTION 7 - Handling & Storage

HANDLING

- User Exposure
 - HARMFUL. IRRITANT. LIGHT SENSITIVE.
 - Keep away from heat.
 - Mechanical exhaust required.
 - Do not breathe vapor or dust.
 - Do not get into eyes, on skin, on clothing.
 - Avoid excessive heat and light.
 - Avoid prolonged or repeated exposure.

STORAGE

- Suitable: Keep tightly closed.
- When NOT in use: Tightly seal the container and store in a DRY, COOL place.
- Always store away from incompatible compounds such as oxidizing agents, moisture.

SECTION 8 - Exposure Controls / PPE

ENGINEERING CONTROLS

- Use only in a chemical fume hood
- Safety shower and eye bath

PERSONAL PROTECTIVE EQUIPMENT

- Respiratory: Use respirators and components tested and approved under appropriate government standards such as (NIOSH) or CEN (EU). Respiratory protection is required. Where protection from nuisance levels of dust are desired, use type N95 (US) or type (P1) (EN 143) dust masks. If the respirator is the sole means of protection, use a full-face supplied air respirator.
- Hand: Compatible chemical-resistant gloves.
- Eye: Chemical safety goggles (Splash goggles).

(CONTINUED) - SECTION 8 - Exposure Controls / PPE

GENERAL HYGIENE MEASURES

- Wash thoroughly after handling.

SECTION 9 - Physical / Chemical Properties

APPEARANCE

PHYSICAL STATE:

SEE HR3-133 USER GUIDE FOR
EACH CHEMICAL

PROPERTY

VALUE

AT TEMPERATURE OR PRESSURE

Molecular Weight	N/A
pH	N/A
BP / BP Range	N/A
MP / MP Range	N/A
Freezing Point	N/A
Vapor Pressure	N/A
Vapor Density	N/A
Saturated Vapor Concentration	N/A
SG / Density	N/A
Bulk Density	N/A
Odor Threshold	N/A
Volatile %	N/A
VOC Content	N/A
Water Content	N/A
Solvent Content	N/A
Evaporation Rate	N/A
Viscosity	N/A
Surface Tension	N/A
Partition Coefficient	N/A
Decomposition Temperature	N/A
Flash Point	N/A
Explosion Limits	N/A
Flammability	N/A
Autoignition Temperature	N/A
Refractive Index	N/A
Optical Rotation	N/A
Miscellaneous Data	N/A
Solubility	N/A

N/A = NOT AVAILABLE

SECTION 10 - Stability & Reactivity

STABILITY

- Stable: This chemical is stable if stored under proper conditions. (See Section 7 for instructions).
- Conditions of Instability: Light. Heat.
- Conditions to Avoid: Moisture.
- Materials to Avoid: Strong oxidizing reagents.

HAZARDOUS DECOMPOSITION PRODUCTS

- Carbon monoxide
- Carbon dioxide
- Nitrogen oxides
- Iodine
- Hydrogen iodide

HAZARDOUS POLYMERIZATION

- Will not occur.

SECTION 11 - Toxicological Information

ROUTE OF EXPOSURE (MULTIPLE ROUTES)

- Harmful if swallowed, inhaled, or absorbed through the skin.
- High concentrations are EXTREMELY destructive to tissues of the mucous membranes and upper respiratory tract, eyes, and skin.

SENSITIZATION

- May cause allergic response and skin reactions.

SIGNS & SYMPTOMS OF EXPOSURE

- To the best of our knowledge, the chemical, physical, and toxicological properties have NOT been thoroughly investigated.
- Prolonged exposure to iodides may produce iodism in sensitive individuals. Symptoms of exposure include: skin rash, running nose, headache and irritation of the mucous membrane. For severe cases the skin may show pimples, boils, hives, blisters and black and blue spots. Iodides are readily diffused across the placenta. Neonatal deaths from respiratory distress secondary to goiter have been reported. Iodides have been known to cause drug-induced fevers, which are usually of short duration. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. Symptoms of exposure may include burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea, and vomiting.

SECTION 12 - Ecological Information

- No data available.

SECTION 13 - Disposal Considerations

APPROPRIATE METHOD OF DISPOSAL OF SUBSTANCE OR PREPARATION

- Contact a licensed professional waste disposal service to dispose of this material.
- Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and a scrubber.
- Observe all federal, state, and local environmental regulations.

SECTION 14 - Transportation Information

DOT (US)

- UN- Number: 3316
- Class: N/A
- Proper Shipping Name: Chemical kits or First aid kits (containing hazardous materials)
- Non-Hazardous for Transport: This substance is considered to be non-hazardous for transport.

IATA

- UN- Number: 3316
- Class: N/A
- Proper Shipping Name: Chemical kits or First aid kits (containing hazardous materials)
- Non-Hazardous for Transport: Non-hazardous for air transport.

SECTION 15 - Regulatory Information

EU ADDITIONAL CLASSIFICATIONS

Substance Name	CAS #	HAZARD Code	R-Phrase	S-Phrase
5-Amino-2,4,6-triiodoisophthalic acid	35453-19-1	Xn	20/21/22/42/43	26-36/37/39
Lithium hydroxide	1310-65-2	C	22-35	26-36/37/39-45

US CLASSIFICATION & LABEL TEXT

- Indication of Danger: Harmful
- Risk Statements: May cause sensitization by inhalation and skin contact.
- Safety Statements: Wear suitable protective clothing. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

UNITED STATES REGULATORY INFORMATION

- SARA LISTED: NO

CANADA REGULATORY INFORMATION

- WHMIS Classification: This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by the CPR.
- DSL: No
- NDSL: No

SECTION 16 - Other Information

DISCLAIMER

- For R&D use only. Not for drug, household, or other use.

WARRANTY

• The above information is believed to be correct but does no 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 this product. Hampton Research Corp., shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.

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