MATERIAL SAFETY DATA SHEET
IODINE RESUBLIMED

1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MSDS Name:	Iodine Resublimed
Synonyms:	None
Company Identification:	**Sisco Research Laboratories Pvt. Ltd**. Andheri (East), Mumbai – 400 099.
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2 - COMPOSITION, INFORMATION ON INGREDIENTS

CAS#	Chemical Name:	%	EINECS#
7553-56-2	Iodine	99.8%	231-442-4

3 - HAZARDS IDENTIFICATION

Risk advice to man and the environment
Harmful by inhalation and in contact with skin. Very toxic to aquatic organisms.

4 - FIRST AID MEASURES

Eyes:	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
Skin:	Wash off with soap and plenty of water. Consult a physician.
Ingestion:	Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
Inhalation:	If breathed in, move person into fresh air. If not breathing give artificial respiration Consult a physician.
Notes to Physician:	Consult a physician. Show this safety data sheet to the doctor in attendance.

5 - FIRE FIGHTING MEASURES

Suitable extinguishing Media:	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special protective equipment for fire-fighters:	Wear self contained breathing apparatus for fire fighting if necessary.

6 - ACCIDENTAL RELEASE MEASURES

Personal precautions:	Use personal protective equipment. Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation.
Environmental precautions:	Prevent further leakage or spillage if safe to do so.

	Discharge into the environment must be avoided. Do not let product enter drains.
Methods for cleaning up:	Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for disposal.

7 – HANDLING AND STORAGE

Handling:	Avoid contact with skin and eyes. Avoid formation of dust and aerosols.Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.
Storage:	Store in cool place.Keep container tightly closed in a dry and well-ventilated place.Handle and store under inert gas.

8 – EXPOSURE CONTROLS, PERSONAL PROTECTION

Personal Protective Equipment

Respiratory protection:	Where risk assessment shows air-purifying respirators are appropriate use a dust mask type N95 (US) or type P1 (EN 143) respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
Hand protection:	Handle with gloves. The selected protective gloves have to satisfy the specifications of EU Directive 89/689/EEC and the standard EN 374 derived from it.
Eye protection:	Safety glasses
Skin and body protection:	Choose body protection according to the amount and concentration of the dangerous substance at the work place.
Hygiene measures:	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Crystalline scale Solid
Color:	Bluish Black
Formula:	I
Atomic Weight:	126.90

10 - STABILITY AND REACTIVITY

Chemical Stability:	Stable under recommended storage conditions.
Incompatibilities with Other Materials :	Rubber, Plastics, Iron and iron salts., Sulphur compounds, Ammonia, Magnesium, Zinc, Aluminum, Metals,Alkalis, Antimony salts, Arsenites, bromides, chlorides, iodides, thiocyanates, ferrous salts, hypophosphites,morphine salts, oils, creosote, phosphates, tannins, tartrates, Mixing iodine,

	antimony, and ammonia resulted in an explosion. A violent reaction occurs between iodine and acetaldehyde., Acetylene, Acetaldehyde.
Hazardous Decomposition Products :	Nature of decomposition products not known.

11 - TOXICOLOGICAL INFORMATION

Acute toxicity:	LD50 Oral - rat - 14.000 mg/kg
Irritation and corrosion:	No data available
Sensitisation:	May cause allergic skin reaction.
Chronic exposure:	No data available
Signs and Symptoms of Exposure:	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.
Potential Health Effects:	
Inhalation:	Harmful if inhaled. May cause respiratory tract irritation.
Skin:	Harmful if absorbed through skin. May cause skin irritation.
Eyes:	May cause eye irritation.
Ingestion:	May be harmful if swallowed.
Target Organs:	Thyroid., Kidney, Endocrine system., Skin, Eyes, Reproductive system., Central nervous system,

12 - ECOLOGICAL INFORMATION

Elimination information: (persistence and degradability)	No data available
Ecotoxicity effects:	Toxicity to fish LC50 - Oncorhynchus mykiss (rainbow trout) - 1,7 mg/l - 96 h Toxicity to daphnia and other aquatic invertebrates. EC50 - Daphnia magna (Water flea) - 0,2 mg/l - 48 h
Further information on ecology:	Very toxic to aquatic organisms.No data available.

13 - DISPOSAL CONSIDERATIONS

Product:	Observe all federal, state, and local environmental regulations.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 scrubber.
Contaminated packaging:	Dispose of as unused product.

14 - TRANSPORT INFORMATION

	IATA	IMO	RID/ADR
Shipping Name:	Corrosive Solid, N.O.S. (Iodine)	Corrosive Solid, N.O.S. (Iodine)	Corrosive Solid, N.O.S. (Iodine)
Hazard Class:	8	8	8
UN Number:	1759	1759	1759
Packing Group:	II	II	II

15 - REGULATORY INFORMATION

Labelling according to EC Directives:	EC Label
Hazard symbols:	Xn Harmful N Dangerous for the environment
R-phrase(s):	R20/21 Harmful by inhalation and in contact with skin. R50 Very toxic to aquatic organisms.
S-phrase(s):	S23 Do not breathe gas/fumes/vapour/spray. S25 Avoid contact with eyes.S61 Avoid release to the environment.

16 - ADDITIONAL INFORMATION

SISCO RESEARCH LABORATORIES provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose.