

SAFETY DATA SHEET

Preparation Date: 05/06/2015

Revision date 1/31/2019

Revision Number: G2

1. IDENTIFICATION

Product identifier

Product code: I1015
Product Name: IODINE, RESUBLIMED, CRYSTAL, USP

Other means of identification

Synonyms: Actomar
 Diiodine
 Eranol
 IODE [French]
 Iodio [Italian]
 Vistarin
CAS #: 7553-56-2
RTECS # NN1575000
Cl#: Not available

Recommended use of the chemical and restrictions on use

Recommended use: Anti-infective agent. Catalyst. Antiseptic. Disinfectant. Bactericide. Fungicide.
 Chemical intermediate.
Uses advised against No information available

Supplier: Spectrum Chemical Mfg. Corp
 14422 South San Pedro St.
 Gardena, CA 90248
 (310) 516-8000

Order Online At: <https://www.spectrumchemical.com>
Emergency telephone number Chemtrec 1-800-424-9300
Contact Person: Tom Tyner (USA - West Coast)
Contact Person: Ibad Tirmiz (USA - East Coast)

2. HAZARDS IDENTIFICATION

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Considered a dangerous substance or mixture according to the Globally Harmonized System (GHS)

Acute toxicity - Dermal	Category 4
Acute toxicity - Inhalation (Gases)	Category 4
Acute toxicity - Inhalation (Dusts/Mists)	Category 4
Skin corrosion/irritation	Category 1
Serious eye damage/eye irritation	Category 1
Specific target organ toxicity (single exposure)	Category 3
Specific target organ toxicity (repeated exposure)	Category 1

Label elements

Product code: I1015

Product name: IODINE,
 RESUBLIMED, CRYSTAL, USP

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Danger

Hazard statements

Causes severe skin burns and eye damage
Harmful in contact with skin
Harmful if inhaled
May cause respiratory irritation
Causes damage to organs through prolonged or repeated exposure



Hazards not otherwise classified (HNOC)

Not Applicable

Other hazards

Not available

Precautionary Statements - Prevention

Wear protective gloves/protective clothing/eye protection/face protection
Use only outdoors or in a well-ventilated area
Do not breathe dust/fume/gas/mist/vapors/spray
Wash face, hands and any exposed skin thoroughly after handling
Do not eat, drink or smoke when using this product

Precautionary Statements - Response

Immediately call a POISON CENTER or doctor/physician
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.
Call a POISON CENTER or doctor/physician if you feel unwell
Wash contaminated clothing before reuse
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell. Immediately call a POISON CENTER or doctor/physician.
IF SWALLOWED: Rinse mouth. DO NOT induce vomiting

Precautionary Statements - Storage

Store locked up
Store in a well-ventilated place. Keep container tightly closed

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS No	Weight-%
Iodine	7553-56-2	100

4. FIRST AID MEASURES

First aid measures

- General Advice:** National Capital Poison Center in the United States can provide assistance if you have a poison emergency and need to talk to a poison specialist. Call 1-800-222-1222.
- Skin Contact:** Wash off immediately with soap and plenty of water. Remove all contaminated clothes and shoes. Continue flushing with plenty of water for at least 15 minutes. Get medical attention immediately. Call a physician or Poison Control Centre immediately.
- Eye Contact:** Flush eyes with water for 15 minutes. Immediate medical attention is required. Call a physician immediately.
- Inhalation:** Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. **WARNING!** It may be hazardous to the person providing aid to give mouth-to-mouth resuscitation when the inhaled or ingested material is toxic, infectious or corrosive. Do not use mouth-to-mouth resuscitation if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Get medical attention.
- Ingestion:** Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Obtain medical attention.

Most important symptoms and effects, both acute and delayed

- Symptoms**
- Severe skin and eye irritation or burns
 - May affect the liver
 - It may affect the kidneys
 - It may affect the thyroid
 - May cause hyperthyroidism
 - Hypothyroidism may result in goiter
 - Irritating to respiratory system
 - Dyspnea (Shortness of breath and difficulty breathing)
 - Coughing
 - May cause pulmonary edema
 - Central nervous system effects
 - May cause digestive (gastrointestinal) tract irritation
 - May cause abdominal pain, nausea, vomiting, diarrhea
 - Thirst
 - Staining of lips, mouth, esophagus
 - May cause metallic taste
 - May affect the cardiovascular system

Indication of any immediate medical attention and special treatment needed

- Notes to Physician:** Treat symptomatically.

Protection of first-aiders

First-Aid Providers: Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of contaminated clothing and equipment as bio-hazardous waste.

5. FIRE-FIGHTING MEASURES

Extinguishing Media

- Suitable Extinguishing Media:** The product is not flammable. If it is involved in a fire, extinguish the fire using an agent suitable for the type of surrounding fire.

Unsuitable Extinguishing Media: No information available.

Specific hazards arising from the chemical

Hazardous combustion products If it is involved in a fire the following can be released:
Hydrogen iodide.

Specific hazards No information available.

Special Protective Actions for Firefighters

Specific Methods: No information available

Special Protective Equipment for Firefighters: As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions: Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Use personal protective equipment. Avoid contact with skin, eyes and clothing. Avoid dust formation. Avoid breathing dust. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

Environmental precautions Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Prevent entry into waterways, sewers, basements or confined areas.

Methods and material for containment and cleaning up

Methods for containment Stop leak if you can do it without risk. Cover with plastic sheet to prevent spreading. Prevent dust cloud.

Methods for cleaning up Sweep up and shovel into suitable containers for disposal. Clean contaminated surface thoroughly.

7. HANDLING AND STORAGE

Precautions for safe handling

Technical Measures/Precautions:

Provide sufficient air exchange and/or exhaust in work rooms. Avoid dust formation. Keep away from incompatible materials.

Safe Handling Advice

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Avoid dust formation. Do not breathe dust. Do not ingest. Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Technical Measures/Storage Conditions:

Keep container tightly closed in a dry and well-ventilated place. Store at room temperature in the original container. Store away from incompatible materials. Store in a segregated and approved area.

Incompatible Materials:

Oxidizing agents
Reducing agents

Metals

Incompatible with liquid chlorine, acetylene, hafnium powder, Tetraamine copper (II) sulfate + ethanol, acetaldehyde, ammonia, salt + ethanol, ammonium hydroxide, methyl alcohol, antimony powder, silver azide, lithium, potassium, polyacetylene, sodium, phosphorous, bromine pentafluoride, fluorine, trioxigen difluoride, oxygen difluoride, magnesium, finely divided (powdered) metals, organic solvents, natural rubber goods, neoprene, plastics (ABS, Acetal (Delrin), CPVC, Epoxy, Polypropylene, NORYL, PPS (Ryton)), zinc, aluminum, alkali metals, sulphur, ammonia, ammonia + potassium, ammonium hydroxide, ammonia solutions, Ammonia + Lithium 1-heptynide, Bromine trifluoride, Bromine pentafluoride, Fluorine, Chlorine trifluoride, reducing agents, iron, ethanol + butadiene + mercuric oxide; ethanol + phosphorous; ethanol + methanol + HgO; foramide + pyridine + sulfur trioxide; formamide; halogens or interhalogens; mercuric oxide; metal carbides; oxygen; pyridine; sodium hydride, metal acetylides (cesium, copper (I), lithium, rubidium), Dipropyl mercury, Titanium (above 113 C.), Cesium Oxide (above 150 C.), various metal acetylides (barium, calcium, strontium, zirconium), various metal carbides

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

National occupational exposure limits

United States

Component	CAS No	OSHA	NIOSH	ACGIH	AIHA WEEL
Iodine	7553-56-2	0.1 ppm Ceiling 1 mg/m ³ Ceiling	0.1 ppm Ceiling 1 mg/m ³ Ceiling	0.1 ppm STEL aerosol and vapor 0.01 ppm TWA inhalable fraction and vapor	None

Canada

Component	CAS No	Canada - Alberta	Canada - British Columbia	Canada - Ontario	Canada - Quebec
Iodine	7553-56-2	0.1 ppm Ceiling 1 mg/m ³ Ceiling	0.1 ppm Ceiling	0.1 ppm STEL	0.1 ppm Ceiling 1.0 mg/m ³ Ceiling

Australia and Mexico

Component	CAS No	Australia	Mexico
Iodine	7553-56-2	None	0.1 ppm Ceiling 1 mg/m ³ Ceiling

Appropriate engineering controls

Engineering measures to reduce exposure:

Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Individual protection measures, such as personal protective equipment

Personal Protective Equipment

Eye protection: Goggles

Skin and body protection: Long sleeved clothing
Chemical resistant apron

Gloves

Respiratory protection: Respirator with combination filter for vapor/particulate. Be sure to use an approved/certified respirator or equivalent.

Hygiene measures: Avoid contact with skin, eyes and clothing. When using, do not eat, drink or smoke. Wash hands before breaks and immediately after handling the product

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Solid	Appearance: Lustrous. Crystals.	Color: Dark purple. Violet. Bluish-black. Grayish-black.
Odor: Sharp. Characteristic.	Taste Sharp. Acrid.	Formula I ₂
Molecular/Formula weight (g/mole): 253.81 g/mol	Flammability (solid, gas) no data available	Flashpoint (°C/°F): No information available
Flash Point Tested according to: Not available	Autoignition Temperature (°C/°F): No information available	Lower Explosion Limit (%): No information available
Upper Explosion Limit (%): No information available	Melting point/range(°C/°F): 113.7°C/ 236.7°F	Decomposition temperature(°C/°F): No information available
Boiling point/range(°C/°F): 184.4°C/ 363.9°F	Bulk density: No information available	Density (g/cm³): No information available
Specific gravity: 4.93	pH 5.4	Vapor pressure @ 20°C (kPa): 0.04 @ 25 deg. C.
Evaporation rate: No information available	Vapor density: 8.8	VOC content (g/L): No information available
Odor threshold (ppm): No information available	Partition coefficient (n-octanol/water): 2.49	Viscosity: No information available
Miscibility: No information available	Solubility: Practically insoluble in water Soluble in Carbon tetrachloride Soluble in Carbon Disulfide Soluble in Chloroform Soluble in cyclohexane: 2.719 g Solubility in Carbon disulfide: 197g/kg @ 25°C Solubility in methanol: 23g/ 100 mL @ 25°C Solubility in alcohol: 20.5g/ 100 mL @ 15°C Solubility in ether: 20.6g/ 100 mL @ 17°C Solubility in Carbon tetrachloride: 19.2 g/kg @ 25°C Solubility in Benzene: 164.0 g/kg @25°C Solubility in Ethanol: 27.1g/kg @ 25°C Solubility in n-hexane: 13.2 g/kg @ 25°C	

Solubility in butan-2-ol: 97 g/kg @ 25°C
Solubility in ethyl acetate: 157g/kg @ 25°C
Solubility in toluene: 182.5 g/kg @ 25
Solubility in chloroform: 49.7 g/kg @ 25
Solubility in bromoethane: 14.6 g/ 100g @ 25
Solubility in n-heptane: 1.73g / 100g @ 25
Solubility in glycerol: 9.7g / 100g @ 25
Solubility in diethyl ether: 33.7g/ 100g @ 25
Solubility in carbon disulfide: 19.7g/ 100g @ 25

10. STABILITY AND REACTIVITY

Reactivity

Iodine reacts violently with Acetaldehyde, Dipropylmercury, Aluminum + and diethyl ether, Titanium (above 113 C.).
Ignition on contact with bromine, bromine pentafluoride,... chlorine trifluoride, ...metals (powdered) + water, aluminum-titanium alloys + heat, metal acetylides, ... nonmetals, ... sodium phosphinate.
Incandescent reaction with cesium oxide (above 150 deg C), bromine trifluoride, metal acetylides or carbides [e.g. barium acetylide (above 122 deg C), calcium acetylide (above 305 deg C), strontium acetylide (above 182 deg C), zirconium acetylide (above 400 degC)].
Magnesium burns vigorously when heated with iodine vapor.
Iodine unites with fluorine at ordinary temperature with a luminous flame

Chemical stability

Stability: Stable under recommended storage conditions.

Possibility of Hazardous Reactions: Hazardous polymerization does not occur

Conditions to avoid: Heat. Ignition sources. Incompatible materials.

Incompatible Materials:

Oxidizing agents
Reducing agents
Metals
Incompatible with liquid chlorine, acetylene, hafnium powder, Tetraamine copper (II) sulfate + ethanol, acetaldehyde, ammonia, salt + ethanol, ammonium hydroxide, methyl alcohol, antimony powder, silver azide, lithium, potassium, polyacetylene, sodium, phosphorous, bromine pentafluoride, fluorine, trioxigen difluoride, oxygen difluoride, magnesium, finely divided (powdered) metals, organic solvents, natural rubber goods, neoprene, plastics (ABS, Acetal (Delrin), CPVC, Epoxy, Polypropylene, NORYL, PPS (Ryton)), zinc, aluminum, alkali metals, sulphur, ammonia, ammonia + potassium, ammonium hydroxide, ammonia solutions, Ammonia + Litium 1-heptynide, Bromine trifluoride, Bromine pentafluoride, Fluorine, Chlorine trifluoride, reducing agents, iron, ethanol + butadiene + mercuric oxide; ethanol + phosphorous; ethanol + methanol + HgO; foramide + pyridine + sulfur trioxide; formamide; halogens or interhalogens; mercuric oxide; metal carbides; oxygen; pyridine; sodium hydride, metal acetylides (cesium, copper (I), lithium, rubidium), Dipropyl mercury, Titanium (above 113 C.), Cesium Oxide (above 150 C.), various metal acetylides (barium, calcium, strontium, zirconium), various metal carbides

Hazardous decomposition products:

Hydrogen iodide. Iodine vapour.

Other Information

Corrosivity: Extremely corrosive in the presence of stainless steel (316)
Extremely corrosive in the presence of stainless steel (304)
Extremely corrosive in presence of copper
No corrosive effect on Aluminum
No corrosive effect on Bronze

Special Remarks on Corrosivity: No corrosion data on brass

11. TOXICOLOGICAL INFORMATION**Information on likely routes of exposure****Principal Routes of Exposure:**

Ingestion. Inhalation. Skin.

Acute Toxicity**Component Information**

Iodine
CAS No 7553-56-2

LD50/oral/rat = 14 g/kg Oral LD50 Rat
LD50/oral/mouse = 1000 mg/kg (RTECS)
22000 mg/kg (Hazardous Substance Data Bank)
LD50/dermal/rabbit = No information available
LD50/dermal/rat = No information available
LC50/inhalation/rat = No information available
LC50/inhalation/mouse = No information available
Other LD50 or LC50 information = 10000 mg/kg LD50 Oral Rabbit
137 ppm 1h LCL inhalation Rat

Product Information

LD50/oral/rat =
Value - Acute Tox = 14000 mg/kg

LD50/oral/mouse =
Value - Acute Tox Oral = 1000 mg/kg

LD50/dermal/rabbit
Value - Acute Tox = No information available

LD50/dermal/rat
VALUE - Acute Tox Dermal = 14000 mg/kg

LC50/inhalation/rat
VALUE-Vapor = No information available
VALUE-Gas = No information available
VALUE-Dust/Mist = No information available

LC50/Inhalation/mouse
VALUE-Vapor = No information available
VALUE - Gas = No information available
VALUE - Dust/Mist = No information available

Symptoms

Skin Contact: Corrosive. Causes skin irritation. Causes skin burns. It can cause brown stains on the skin. It is corrosive and cause penetrating lesions.

Eye Contact: Causes severe eye irritation and possible burns. May cause conjunctivitis. Exposure to vapor can cause burning sensation in the eyes, tearing, inflammation of the eye lids. Exposure to high concentrations of vapor may cause corneal damage (Dendritic Keratitis in which the corneal epithelium is sloughed off).

Inhalation Low hazard during normal industrial handling. Excessive inhalation of iodine vapors may cause respiratory tract, nasal, and mucous membrane irritation. Symptoms may include coughing, tightness in the chest, rhinitis, dyspnea/respiratory distress, coughing, sneezing, pulmonary edema, chemical pneumonitis, edema of the larynx and bronchi, pharyngitis, swelling of the parotid gland, and cachexia. High exposure may lead to lung disease and may also affect behavior/central nervous system (delirium, hallucination, depression, seizure, dizziness, headache, stupor, somnolence).

Ingestion Ingestion of large doses may cause irritation of mouth of the digestive tract with thirst, nausea, vomiting, abdominal pain, hypermotility, and diarrhea, staining of mouth, esophagus, lips, mucous membranes, metallic taste, abdominal pain, fever. It may also affect the cardiovascular system (tachycardia, hypotension, cardiovascular collapse), behavior/central nervous system (delirium, dizziness, headache, hallucinations, seizures, depression, stupor, somnolence, muscle weakness). Death is rare following acute iodine ingestion. It is estimated that the mean lethal dose in an adult lies between 2 to 4 grams of free iodine. However, death from acute iodine poisoning may occur due to circulatory collapse, asphyxiation from glottic edema, pulmonary edema, aspiration pneumonia, and cyanosis.

Aspiration hazard No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Chronic Toxicity May cause reddening of the skin, itching, acne-like eruption of the skin/skin rash, and skin allergies. Prolonged or repeated exposure may cause eye irritation and conjunctivitis. Prolonged or repeated ingestion may cause a reversible reduction in thyroid function (hypothyroidism), nodular goiter, hyperthyroidism, thyrotoxicosis, metabolic disturbances, and may affect the blood (anemia), liver, urinary system/kidneys (kidney damage, hematuria, albuminuria, anuria). Other symptoms of chronic iodine poisoning (Iodism) may include fever, rapid heartbeat, tremor, headache, delirium, stupor, insomnia, salivation, weight loss/loss of appetite, salivation, stomatitis, parotitis, diarrhea, gastric irritation, joint pain and swelling. Prolonged or repeated inhalation may cause disrupted thyroid activity (see ingestion), and chronic irritation of the throat, sneezing, nasal discharge, bronchitis, laryngitis, asthma. It may also affect behavior (see ingestion). Iodine concentrates in the Thyroid during chronic exposure.

Sensitization: No information available.

Mutagenic Effects: No information available

Carcinogenic effects: Not considered carcinogenic.

Component	CAS No	IARC	ACGIH - Carcinogens	NTP	OSHA HCS - Carcinogens	Australia - Notifiable	Australia - Prohibited
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						Carcinogenic Substances	Carcinogenic Substances
Iodine	7553-56-2	Not listed	A4 Not Classifiable as a Human Carcinogen	Not listed	Not listed	Not listed	Not listed

ACGIH (American Conference of Governmental Industrial Hygienists)

IARC (International Agency for Research on Cancer)

NTP (National Toxicology Program)

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

Reproductive toxicity No data is available

Reproductive Effects: No information available
Developmental Effects: May cause adverse developmental effects
 Exposure to excessive amounts of iodine during pregnancy is capable of producing fetal hypothyroidism, severe goiter or cretinism in the offspring
Teratogenic Effects: No information available

Specific Target Organ Toxicity

STOT - single exposure central nervous system.
STOT - repeated exposure Causes damage to organs through prolonged or repeated exposure if swallowed. Thyroid.
Target Organs: Thyroid. Respiratory system. Skin. Eyes. Central nervous system.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Ecotoxicity effects: No data available.
Persistence and degradability: No information available
Bioaccumulative potential: No information available.
Mobility in soil No information available
Other adverse effects No information available.

13. DISPOSAL CONSIDERATIONS

Disposal Methods

Waste from residues / unused products:
 Waste must be disposed of in accordance with Federal, State and Local regulation.

Contaminated packaging:
 Empty containers should be taken for local recycling, recovery or waste disposal

Component	CAS No	RCRA - F Series Wastes	RCRA - K Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
Iodine	7553-56-2	None	None	None	None

14. TRANSPORT INFORMATION

Product code: I1015

Product name: IODINE, RESUBLIMED, CRYSTAL, USP

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DOT

UN-No: UN3495
Proper Shipping Name: Iodine
Hazard Class 8
Subsidiary Class 6.1
Packing group: III
Emergency Response Guide Number 154
Marine Pollutant No data available
DOT RQ (lbs): No information available
Special Provisions IB8, IP3, T1, TP33
Symbol(s): [DOT]: (+) - Fixes the proper shipping name, hazard class and packing group for that entry without regard to whether the material meets the definition of that class, packing group or any other hazard class.
Description: UN3495,Iodine ,8,(6.1),PG III UN3495, Iodine, 8 (6.1), III

TDG (Canada)

UN-No: UN3495
Proper Shipping Name: Iodine
Hazard Class 8
Subsidiary Risk: (6.1)
Packing Group: III
Marine Pollutant No Information available
Description: UN3495,IODINE,8(6.1),PG III UN3495, Iodine, 8 (6.1), III

ADR

UN Number UN3495
Proper Shipping Name: Iodine
Transport hazard class(es) 8
Packing group III
Subsidiary Risk: 6.1
Special Provisions 279
Description: UN3495 Iodine,8(6.1),III UN3495, Iodine, 8 (6.1), III, ENVIRONMENTALLY HAZARDOUS

IMDG

UN-No: UN3495
Proper Shipping Name: Iodine
Hazard Class: 8
Subsidiary Risk: 6.1
Packing Group: III
Marine Pollutant No information available
EMS: F-A
Special Provisions 279
Description UN3495, Iodine, 8 (6.1), III, Marine pollutant

RID

UN Number UN3495
Proper Shipping Name: Iodine
Transport hazard class(es) 8
Subsidiary Risk: 6.1
Packing group III
Special Provisions 279
Description: UN3495 Iodine,8(6.1),III UN3495, Iodine, 8 (6.1), III, ENVIRONMENTALLY HAZARDOUS

ICAO (air)

UN-No: UN3495
Proper Shipping Name: Iodine
Hazard Class 8
Subsidiary Risk: 6.1
Packing Group: III
Description: UN3495,Iodine,8(6.1),PG III
 UN3495, Iodine, 8 (6.1), III
Special Provisions A113

IATA

UN Number UN3495
Proper Shipping Name: Iodine
Transport hazard class(es) 8
Subsidiary Risk: 6.1
Packing group III
Precautionary Statements - Response 8P
Special Provisions No information available
Description: UN3495,Iodine,8(6.1),PG III
 UN3495, Iodine, 8 (6.1), III

15. REGULATORY INFORMATION**International Inventories**

Component	CAS No	U.S. TSCA	KOREA KECL	Philippines (PICCS)	Japan ENCS	China IECS	Australia AICS	EINECS-No.
Iodine	7553-56-2	PresentACTIVE	Present KE-21023	Present	Not present	Present	Present	Present 231-442-4

U.S. Regulations*Iodine*

Massachusetts RTK: Present
New Jersey RTK Hazardous Substance List: 1026
Pennsylvania RTK: Present
Minnesota - Hazardous Substance List: Present
California Directors List of Hazardous Substances: Present

California Prop. 65: Safe Drinking Water and Toxic Enforcement Act of 1986.**Chemicals Known to the State of California to Cause Cancer:**

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Chemicals Known to the State of California to Cause Reproductive Toxicity:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Component	CAS No	Carcinogen	Developmental Toxicity	Male Reproductive Toxicity	Female Reproductive Toxicity:
Iodine	7553-56-2	Not Listed	Not Listed	Not Listed	Not Listed

CERCLA/SARA

Component	CAS No	CERCLA - Hazardous Substances and their Reportable Quantities	Section 302 Extremely Hazardous Substances and TPQs	Section 302 Extremely Hazardous Substances and RQs	Section 313 - Chemical Category	Section 313 - Reporting de minimis
Iodine	7553-56-2	None	None	None	None	None

U.S. TSCA

Component	CAS No	TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)	TSCA 8(d) -Health and Safety Reporting
Iodine	7553-56-2	Not Applicable	Not Applicable

Canada

WHMIS 2015 - GHS Classifications

WHMIS 2015 Hazard Classification Information:

Component
Iodine
7553-56-2 (100)

WHMIS 2015 Hazard Classification
Acute toxicity - Dermal - Category 4: H312 Harmful in contact with skin.; Skin corrosion/irritation - Category 2: H315 Causes skin irritation.; Serious Eye Damage/Eye Irritation - Category 2: H319 Causes serious eye irritation.; Specific target organ toxicity - Repeated exposure - Category 1: H372 Causes damage to organs through prolonged or repeated exposure.

Canada Hazardous Products Regulation This product has been classified according to the hazard criteria of the HPR (Hazardous Products Regulation) and the SDS contains all of the information required by the HPR

DSL/NDSL

Component	CAS No	Canada (DSL)	Canada (NDSL)
Iodine	7553-56-2	Present	Not Listed

Component	CAS No	CEPA Schedule I - Toxic Substances
Iodine	7553-56-2	Not listed
Component	CAS No	CEPA - 2010 Greenhouse Gases Subject to Mandatory Reporting
Iodine	7553-56-2	Not listed

EU Classification

EU GHS - SV - CLP 1272/2008

Component	CAS No	EU GHS - SV - CLP (1272/2008)
Iodine	7553-56-2	Acute toxicity - Dermal - Acute Tox. 4: H312 Harmful in contact with skin. (Minimum classification); Acute toxicity - Inhalation - Acute Tox. 4: H332 Harmful if inhaled. (Minimum classification); Hazardous to aquatic environment - acute hazard - Aquatic Acute 1: H400 Very toxic to aquatic life.053-001-00-3

EU - CLP (1272/2008)

R-phrase(s)

R50 - Very toxic to aquatic organisms

R20/21 - Harmful by inhalation and in contact with skin

S -phrase(s)

S 2 - Keep out of the reach of children.

S23 - Do not breathe gas/fumes/vapor/spray

S25 - Avoid contact with eyes

S61 - Avoid release to the environment. Refer to special instructions/safety data sheets.

Component	CAS No	Classification	Concentration Limits:	Safety Phrases
Iodine	7553-56-2	Xn; R20/21 N; R50	No information	S2 S23 S25 S61

The product is classified in accordance with Annex VI to Directive 67/548/EEC**Indication of danger:**

Xn - Harmful

N - Dangerous for the environment

Xn



N

**16. OTHER INFORMATION**

Preparation Date: 05/06/2015
Revision date 1/31/2019
Prepared by: Sonia Owen

Disclaimer:

All chemicals may pose unknown hazards and should be used with caution. This Safety Data Sheet (SDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. The physical properties reported in this SDS are obtained from the literature and do not constitute product specifications. Information contained herein does not constitute a warranty, whether expressed or implied, as to the safety, merchantability or fitness of the goods for a particular purpose. Spectrum Chemicals & Laboratory Products, Inc. assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Spectrum assumes no responsibility for the completeness or accuracy of the information contained herein.

End of Safety Data Sheet