



# SAFETY DATA SHEET

Preparation Date: 10/8/2019 Revision date 10/9/2019 Revision Number: G1

### 1. IDENTIFICATION

**Product identifier** 

Product code: Z1073

Product Name: ZINC IODIDE, PURIFIED

Other means of identification

Synonyms: Zinc Diiodide
CAS #: 10138-47-6
RTECS # Not available
CI#: Not available

Recommended use of the chemical and restrictions on use

Recommended use: No information available. 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)

Skin corrosion/irritation	Category 1 Sub-category B
Serious eye damage/eye irritation	Category 1

#### Label elements

Danger

Hazard statements

Causes severe skin burns and eye damage

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#### Hazards not otherwise classified (HNOC)

Not Applicable

#### Other hazards

Not available

#### **Precautionary Statements - Prevention**

Do not breathe dust/fume/gas/mist/vapors/spray
Wash face, hands and any exposed skin thoroughly after handling
Wear protective gloves/protective clothing/eye protection/face protection

#### **Precautionary Statements - Response**

Immediately call a POISON CENTER or 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 physician.

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water

Wash contaminated clothing before reuse

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or physician. IF SWALLOWED: Rinse mouth. DO NOT induce vomiting

#### **Precautionary Statements - Storage**

Store locked up

#### **Precautionary Statements - Disposal**

Dispose of contents and container to an approved waste disposal plant in accordance with local, regional, national and international regulations as applicable

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS No	Weight-%
Zinc lodide	10139-47-6	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. First aider needs to protect himself. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect

themselves.

**Skin Contact:** Wash off immediately with soap and plenty of water. Continue flushing with plenty of water

for at least 15 minutes. Remove all contaminated clothes and shoes. Immediate medical

attention is required. Call a physician or poison control center 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

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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. Immediate medical attention is required.

**Ingestion:** Do not induce vomiting without medical advice. Never give anything by mouth to an

unconscious person. If victim is conscious, give water or milk. Immediate medical attention

is required.

### Most important symptoms and effects, both acute and delayed

**Symptoms** Severe skin and eye irritation or burns

Causes eye damage

May cause abdominal pain, nausea, vomiting, diarrhea Causes digestive (gastrointestinal) tract irritation May cause gastrointestinal (digestive) tract burns

Can burn mouth, throat, and stomach May cause perforation of the digestive tract

### 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**No information available.

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

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#### 6. ACCIDENTAL RELEASE MEASURES

#### Personal precautions, protective equipment and emergency procedures

Personal Precautions: Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Do not touch

damaged containers or spilled material unless wearing appropriate protective clothing. Use

personal protective equipment.

**Environmental precautions** Prevent further leakage or spillage if safe to do so. Prevent product from entering

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.

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. Keep away from incompatible materials.

# Safe Handling Advice:

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Keep away from heat and sources of ignition. Do not ingest. Do not breathe dust. 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. Hygroscopic. Protect from moisture. Protect from light. Sensitive to light. Store in light-resistant containers.

### **Incompatible Materials:**

Strong oxidizing agents Strong bases Peroxides Metals

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

# Control parameters

# National occupational exposure limits

### **United States**

Component	CAS No	OSHA	NIOSH	ACGIH	AIHA WEEL
Zinc Iodide	10139-47-6	None	None	0.01 TWA (inhalable	None
				fraction and vapor) (for	
				iodides)	

# Canada

	Component	CAS No	Canada - Alberta	Canada - British	Canada - Ontario	Canada - Quebec
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			Columbia		
Zinc Iodide	10139-47-6	None	None	0.01 TWA (inhalable	None
				fraction and vapor) (for	
				iodides)	

#### **Australia and Mexico**

Component	CAS No	Australia	Mexico
Zinc Iodide	10139-47-6	None	None

#### Appropriate engineering controls

**Engineering measures to reduce exposure:** Ensure adequate ventilation. 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 or Face-shield.

**Skin and body protection:** Chemical resistant apron

Long sleeved clothing

Gloves

**Respiratory protection:** Effective dust mask. Wear respirator with dust filter. Use a dust respirator under

conditions where exposure to the substance is apparent (e.g. generation of high concentration of dust (dust clouds), inadequate ventilation, development of respiratory tract irritation), and engineering controls are not feasible. Be sure to

use an approved/certified respirator or equivalent.

**Hygiene measures:** Avoid contact with skin, eyes and clothing. Wash hands before breaks and

immediately after handling the product When using, do not eat, drink or smoke.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Appearance: Color:

Solid Granular powder. White. Almost white.

Odor:TasteFormulaNo information available.No information available.ZI2

Molecular/Formula weight (g/mole): Flammability (solid, gas) Flashpoint (°C/°F):

319.22 no data available No information available

Flash Point Tested according to: Autoignition Temperature (°C/°F): Lower Explosion Limit (%):

Not available No information available No information available

Upper Explosion Limit (%): Melting point/range(°C/°F): Decomposition temperature(°C/°F):

No information available 445-446 °C/833-835 °F No information available

Boiling point/range(°C/°F): Bulk density: Density (g/cm3):

No information available 
No information available 
No information available

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Specific gravity: pH Vapor pressure @ 20°C (kPa):

4.740 No information available No information available

Evaporation rate: Vapor density: VOC content (g/L):

No information available

No information available

No information available

Odor threshold (ppm): Partition coefficient Viscosity:

No information available (n-octanol/water): No information available

No information available

Miscibility: Solubility:

No information available 
No information available

# 10. STABILITY AND REACTIVITY

Reactivity

No information available

**Chemical stability** 

Stability: Stable under recommended storage conditions. Sensitive to light. Hygroscopic.

Possibility of Hazardous Reactions: Hazardous polymerization does not occur

Conditions to avoid: Exposure to light. Exposure to moisture. Exposure to moist air. Incompatible

materials.

Incompatible Materials: Strong oxidizing agents

Strong bases Peroxides Metals

Hazardous decomposition

products:

No information available.

**Other Information** 

Corrosivity: No information available

Special Remarks on Corrosivity: No information available

### 11. TOXICOLOGICAL INFORMATION

# Information on likely routes of exposure

**Principal Routes of Exposure:** Skin. Ingestion. Inhalation.

Acute Toxicity

### **Component Information**

Zinc lodide
CAS No 10139-47-6

LD50/oral/rat = No information available

**LD50/oral/mouse** = No information available

**LD50/dermal/rabbit** = No information available

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LD50/dermal/rat = No information available
LC50/inhalation/rat = No information available
LC50/inhalation/mouse = No information available
Other LD50 or LC50information = No information available

#### **Product Information**

LD50/oral/rat =

Value - Acute Toxicity = No information available

LD50/oral/mouse =

Value - Acute Tox = No information available

LD50/dermal/rabbit

Value - Acute Toxicity = No information available

LD50/dermal/rat

**VALUE - Acute Tox =** No information available

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:** Causes severe irritation and burns.

**Eye Contact:** Causes severe eye irritation and possible burns. Possible eye damage.

**Inhalation** May cause irritation of respiratory tract.

Ingestion Causes digestive (gastrointestinal) tract irritation. May cause digestive

(gastrointestinal) tract burns. Corrosive to the mouth, throat, and stomach. May cause perforation of the digestive tract. May cause abdominal pain, nausea,

vomiting, diarrhea.

**Aspiration hazard** No information available.

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

**Chronic Toxicity** No information available.

**Sensitization:** No information available.

Mutagenic Effects: No information available

Carcinogenic effects: Not considered carcinogenic.

Component	CAS No	IARC	ACGIH -	NTP	OSHA HCS -	Australia -	Australia -
-			Carcinogens		Carcinogens	Notifiable	Prohibited

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						Carcinogenic Substances	Carcinogenic Substances
Zinc Iodide	10139-47-6	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 availableDevelopmental Effects:No information availableTeratogenic Effects:No information available

**Specific Target Organ Toxicity** 

STOT - single exposure No STOT - repeated exposure No Target Organs: No

No information available. No information available. No information available.

### 12. ECOLOGICAL INFORMATION

**Ecotoxicity** 

**Ecotoxicity effects:** No data available.

Persistence and degradability: No information available

**Bioaccumulative potential:** No information available.

Mobility in soilNo information availableOther adverse effectsNo 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
Zinc Iodide	10139-47-6	None	None	None	None

### 14. TRANSPORT INFORMATION

DOT

**UN-No:** UN3260

**Proper Shipping Name:** Corrosive solid, acidic, inorganic, n.o.s.(Zinc lodide)

Product code: Z1073 Product name: ZINC IODIDE, Page 8 / 12

Hazard Class 8

Subsidiary Class No information available

Packing group: III Emergency Response Guide 154

Number

Marine PollutantNo data availableDOT RQ (lbs):No information availableSpecial ProvisionsIB8, IP3, T1, TP33

Symbol(s): [DOT]: (G) - Identifies proper shipping names for which one or more technical

names of the hazardous material must be entered in parentheses, in association

with the basic description.

Description: UN3260, CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S., 8, III

TDG (Canada)

**UN-No:** UN3260

**Proper Shipping Name:** Corrosive solid, acidic, inorganic, n.o.s.(Zinc Iodide)

Hazard Class 8

Subsidiary Risk: No information available

Packing Group:

Marine Pollutant No Information available

Description: UN3260, CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S., 8, III

**ADR** 

**UN Number** UN3260

**Proper Shipping Name:** Corrosive solid, acidic, inorganic, n.o.s.(Zinc Iodide)

Transport hazard class(es) 8
Packing group |||

Subsidiary Risk: No information available

Special Provisions 274

Description: UN3260, CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S., 8, III

**IMDG** 

**UN-No:** UN3260

**Proper Shipping Name:** Corrosive solid, acidic, inorganic, n.o.s.(Zinc Iodide)

Hazard Class: 8

Subsidiary Risk: No information available

Packing Group:

Marine Pollutant No information available

EMS: F-A Special Provisions 223, 274

Description UN3260, CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S. (ZINC IODIDE), 8,

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RID

UN Number UN3260

**Proper Shipping Name:** Corrosive solid, acidic, inorganic, n.o.s.(Zinc Iodide)

Transport hazard class(es) 8

Subsidiary Risk: No information available

Packing group III Special Provisions 274

Description: UN3260, CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S., 8, III

ICAO (air)

**UN-No:** UN3260

**Proper Shipping Name:** Corrosive solid, acidic, inorganic, n.o.s.(Zinc Iodide)

Hazard Class 8

Subsidiary Risk: No information available

Packing Group:

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Description: UN3260, CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S., 8, III

Special Provisions A3

IATA

UN Number UN3260

**Proper Shipping Name:** Corrosive solid, acidic, inorganic, n.o.s.(Zinc Iodide)

Transport hazard class(es) 8

Subsidiary Risk: No information available

Packing group III Precautionary Statements - 8L

Response

Special Provisions No information available

Description: UN3260, CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S., 8, III

### 15. REGULATORY INFORMATION

### International Inventories

Component	CAS No	U.S. TSCA	KOREA KECL	Philippines (PICCS)	Japan ENCS	China IECSC	Australia (AICS)	EINECS-No.
Zinc lodide	10139-47-6	PresentACTIV E	Present KE-35557	Not present	Present (1)-749	Present	Present	Present 233-396-0

#### **U.S. Regulations**

Zinc Iodide

New Jersey RTK Hazardous Substance List: sn 3012

New Jersey (EHS) List: SN 3012 500 lb. TPQ

New Jersey - Discharge Prevention - List of Hazardous Substances: Present (zinc compouds)

#### 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	Reproductive	Female Reproductive Toxicity:
Zinc Iodide	10139-47-6	Not Listed	Not Listed	Not Listed	Not Listed

#### CERCLA/SARA

Component	CAS No	CERCLA -	Section 302	Section 302	Section 313 -	Section 313 -
		Hazardous	Extremely	Extremely	Chemical Category	Reporting
		Substances and	Hazardous	Hazardous		de minimis
		their Reportable	Substances	Substances and		
		Quantities	and TPQs	RQs		
Zinc lodide	10139-47-6	None	None	None	None	None

#### **U.S. TSCA**

Component		TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)	TSCA 8(d) -Health and Safety Reporting
Zinc Iodide	10139-47-6	Not Applicable	Not Applicable

### Canada

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#### WHIMIS 2015 - GHS Classifications

WHMIS 2015 Hazard Classification Information:

The WHMIS 2015 classification of this product has not been validated or reviewed yet.

Canada Hazardous Products Regulation This product has not 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)
Zinc lodide	10139-47-6	Not Listed	Present

Component	CAS No	CEPA Schedule I - Toxic Substances
Zinc lodide	10139-47-6	Not listed
Component		CEPA - 2010 Greenhouse Gases Subject to Mandatory Reporting
		, , , ,
Zinc Iodide	10139-47-6	Not listed

#### **EU Classification**

#### EU GHS - SV - CLP 1272/2008

Component	CAS No	EU GHS - SV - CLP (1272/2008)
Zinc lodide	10139-47-6	

### EU - CLP (1272/2008)

#### R-phrase(s)

R34 - Causes burns

#### S -phrase(s)

S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible)

Component	CAS No	Concentration Limits:	Safety Phrases
Zinc lodide	10139-47-6	No information	

The product is classified in accordance with Annex VI to Directive 67/548/EEC

# Indication of danger:

C - Corrosive



# **16. OTHER INFORMATION**

**Preparation Date:** 10/8/2019 **Revision date** 10/9/2019

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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** 

Product code: Z1073 Product name: ZINC IODIDE, Page 12 / 12