

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Revision date: 04/18/2024 Supersedes: 10/07/2022

### **SECTION 1: Identification**

Identification

Product form : Substance

Substance name : LPF100A lodine Vaporizer Crystals

LPF100A Product code

Recommended use and restrictions on use

Use of the substance/mixture : Latent fingerprint developer

**Supplier** 

**SIRCHIE** 

100 Hunter Place

Youngsville, NC 27596 - USA

T 919-554-2244; 800-356-7311 - F 919-554-2266; 800-899-8181

http://www.sirchie.com

**Emergency telephone number** 

: 1.800.424.9300 (USA) +1-703-527-3887 (INTL) Emergency number

CHEMTREC: 1.800.424.9300

### SECTION 2: Hazard(s) identification

### Classification of the substance or mixture

### **GHS US classification**

Acute toxicity (dermal) Category 4 H312 Harmful in contact with skin

Full text of H statements: see section 16

### GHS Label elements, including precautionary statements

### **GHS US labeling**

Hazard pictograms (GHS US)



Signal word (GHS US) : Warning

Hazard statements (GHS US) : H312 - Harmful in contact with skin

: P280 - Wear protective gloves/protective clothing/eye protection/face protection. Precautionary statements (GHS US)

P302+P352 - If on skin: Wash with plenty of water. P312 - Call a poison center or doctor if you feel unwell.

P322 - Specific treatment (see supplemental first aid instruction on this label) P362+P364 - Take off contaminated clothing and wash it before reuse.

P501 - Dispose of contents/container to hazardous or special waste collection point, in

accordance with local, regional, national and/or international regulation.

## Other hazards which do not result in classification

No additional information available

## **Unknown acute toxicity (GHS US)**

Not applicable

# **SECTION 3: Composition/Information on ingredients**

#### **Substances** 3.1.

Name : LPF100A Iodine Vaporizer Crystals

Name	Product identifier	%	GHS US classification
iodine	(CAS-No.) 7553-56-2	100	Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation:vapour), H332

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Full text of hazard classes and H-statements : see section 16

Not applicable

# **SECTION 4: First-aid measures**

### **Description of first aid measures**

First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical

advice (show the label where possible).

First-aid measures after inhalation : Allow affected person to breathe fresh air. Allow the victim to rest.

Remove affected clothing and wash all exposed skin area with mild soap and water, followed First-aid measures after skin contact

by warm water rinse.

First-aid measures after eye contact Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness

First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

#### 4.2. Most important symptoms and effects (acute and delayed)

Potential Adverse human health effects and

: Based on available data, the classification criteria are not met.

symptoms

: Not expected to present a significant hazard under anticipated conditions of normal use.

### Immediate medical attention and special treatment, if necessary

No additional information available

Symptoms/effects

### **SECTION 5: Fire-fighting measures**

#### 5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.

: Do not use a heavy water stream. Unsuitable extinguishing media

#### 5.2. Specific hazards arising from the chemical

#### 5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any

chemical fire. Prevent fire-fighting water from entering environment.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

### **SECTION 6: Accidental release measures**

### Personal precautions, protective equipment and emergency procedures

### 6.1.1. For non-emergency personnel

**Emergency procedures** : Evacuate unnecessary personnel.

### 6.1.2. For emergency responders

: Equip cleanup crew with proper protection. Protective equipment

**Emergency procedures** : Ventilate area.

## **Environmental precautions**

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

# Methods and material for containment and cleaning up

: On land, sweep or shovel into suitable containers. Minimize generation of dust. Store away Methods for cleaning up

from other materials.

### Reference to other sections

See Heading 8. Exposure controls and personal protection.

# **SECTION 7: Handling and storage**

### Precautions for safe handling

Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation

of vapor.

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### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep only in the original container in a cool, well ventilated place away from : Keep container

closed when not in use.

Incompatible products : Strong bases. Strong acids.
Incompatible materials : Sources of ignition. Direct sunlight.

# SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

LPF100A Iodine Vaporizer Crystals	
USA - ACGIH - Occupational Exposure Limits	
ACGIH TWA (mg/m³)	1 mg/m³
USA - OSHA - Occupational Exposure Limits	
OSHA PEL (TWA) (mg/m³)	1 mg/m³
iodine (7553-56-2)	
USA - ACGIH - Occupational Exposure Limits	
ACGIH TWA (ppm)	0.01 ppm (Inhalable fraction and vapor)
ACGIH STEL (ppm)	0.1 ppm (Vapor fraction)

### 8.2. Appropriate engineering controls

# 8.3. Individual protection measures/Personal protective equipment

### Personal protective equipment:

Avoid all unnecessary exposure. Gas mask. Gloves. Safety glasses.

### Hand protection:

Wear protective gloves.

### Eye protection:

Chemical goggles or safety glasses

## Respiratory protection:

Wear appropriate mask

### Personal protective equipment symbol(s):







### Other information:

Do not eat, drink or smoke during use.

# **SECTION 9: Physical and chemical properties**

# 9.1. Information on basic physical and chemical properties

Physical state : Solid

Appearance : Crystalline powder.

Color : Metallic violet-black

Odor : Irritating/pungent odour

Odor threshold : No data available

pH : No data available

Melting point : No data available

Freezing point : No data available

No data available

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Boiling point : No data available Flash point : No data available Relative evaporation rate (butyl acetate=1) No data available Flammability (solid, gas) : Non flammable. Vapor pressure : No data available : No data available Relative vapor density at 20 °C Relative density : No data available Solubility : No data available : No data available Partition coefficient n-octanol/water (Log Pow) Auto-ignition temperature : No data available Decomposition temperature : No data available : No data available Viscosity, kinematic No data available Viscosity, dynamic **Explosion limits** : No data available : No data available Explosive properties : No data available Oxidizing properties

### 9.2. Other information

No additional information available

# SECTION 10: Stability and reactivity

### 10.1. Reactivity

On burning: release of harmful/irritant gases/vapours (iodine).

### 10.2. Chemical stability

Not established.

### 10.3. Possibility of hazardous reactions

Not established.

### 10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

### 10.5. Incompatible materials

Strong acids. Strong bases.

### 10.6. Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide.

## **SECTION 11: Toxicological information**

# 11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified

Acute toxicity (dermal) : Harmful in contact with skin.

Acute toxicity (inhalation) : Not classified

ATE US (dermal)	1425 mg/kg body weight
iodine (7553-56-2)	
LD50 dermal rabbit	1425 – 2000 mg/kg body weight (EPA OPPTS 870.1200: Acute Dermal Toxicity, 24 h, Rabbit, Male / female, Experimental value, Dermal, 14 day(s))
LC50 Inhalation - Rat	> 4.588 mg/l (OECD 403: Acute Inhalation Toxicity, 4 h, Rat, Male / female, Experimental value, Inhalation (dust), 14 day(s))
Skin corresion/irritation	· Not classified

Skin corrosion/irritation : Not classified
Serious eye damage/irritation : Not classified
Respiratory or skin sensitization : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified
Reproductive toxicity : Not classified

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STOT-single exposure : Not classified
STOT-repeated exposure : Not classified
Aspiration hazard : Not classified
Viscosity, kinematic : No data available

Potential Adverse human health effects and

symptoms

: Based on available data, the classification criteria are not met.

: Not expected to present a significant hazard under anticipated conditions of normal use.

# **SECTION 12: Ecological information**

### 12.1. Toxicity

Symptoms/effects

iodine (7553-56-2)	
LC50 fish 1	1.67 mg/l (96 h, Oncorhynchus mykiss, Static system, Fresh water, Experimental value,
	Lethal)

### 12.2. Persistence and degradability

LPF100A Iodine Vaporizer Crystals	
Persistence and degradability	Not established.
iodine (7553-56-2)	
Persistence and degradability	Biodegradability: not applicable.
Chemical oxygen demand (COD)	Not applicable (inorganic)
ThOD	Not applicable (inorganic)

# 12.3. Bioaccumulative potential

LPF100A Iodine Vaporizer Crystals	
Bioaccumulative potential	Not established.
iodine (7553-56-2)	
Partition coefficient n-octanol/water (Log Pow)	2.49 (QSAR, 20 °C)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).

## 12.4. Mobility in soil

iodine (7553-56-2)	
Partition coefficient n-octanol/water (Log Koc)	0.21 (log Koc, Calculated value)
Ecology - soil	Highly mobile in soil.

## 12.5. Other adverse effects

Other information : Avoid release to the environment.

# **SECTION 13: Disposal considerations**

### 13.1. Disposal methods

Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

Ecology - waste materials : Avoid release to the environment.

# **SECTION 14: Transport information**

### **Department of Transportation (DOT)**

In accordance with DOT

Transport document description : UN3495 lodine, 8 (6.1), III

UN-No.(DOT) : UN3495
Proper Shipping Name (DOT) : Iodine

Class (DOT) : 8 - Class 8 - Corrosive material 49 CFR 173.136

Packing group (DOT) : III - Minor Danger

Subsidiary risk (DOT) : 6.1 - Class 6.1 - Poisonous materials 49 CFR 173.132

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Hazard labels (DOT) : 8 - Corrosive

6.1 - Poison





DOT Packaging Non Bulk (49 CFR 173.xxx) : 213 DOT Packaging Bulk (49 CFR 173.xxx) : 240

**DOT Symbols** 

DOT Special Provisions (49 CFR 172.102)

: + - Fixes (cannot be altered) proper shipping name, hazard class, and packing group

: IB8 - Authorized IBCs: Metal (11A, 11B, 11N, 21A, 21B, 21N, 31A, 31B and 31N); Rigid plastics (11H1, 11H2, 21H1, 21H2, 31H1 and 31H2); Composite (11HZ1, 11HZ2, 21HZ1, 21HZ2, 31HZ1 and 31HZ2); Fiberboard (11G); Wooden (11C, 11D and 11F); Flexible (13H1, 13H2, 13H3, 13H4, 13H5, 13L1, 13L2, 13L3, 13L4, 13M1 or 13M2).

IP3 - Flexible IBCs must be sift-proof and water-resistant or must be fitted with a sift-proof and water-resistant liner.

T1 - 1.5 178.274(d)(2) Normal..... 178.275(d)(2)

TP33 - The portable tank instruction assigned for this substance applies for granular and powdered solids and for solids which are filled and discharged at temperatures above their melting point which are cooled and transported as a solid mass. Solid substances transported or offered for transport above their melting point are authorized for transportation in portable tanks conforming to the provisions of portable tank instruction T4 for solid substances of packing group III or T7 for solid substances of packing group II, unless a tank with more stringent requirements for minimum shell thickness, maximum allowable working pressure, pressure-relief devices or bottom outlets are assigned in which case the more stringent tank instruction and special provisions shall apply. Filling limits must be in accordance with portable tank special provision TP3. Solids meeting the definition of an elevated temperature material must be transported in accordance with the applicable requirements of this subchapter.

DOT Packaging Exceptions (49 CFR 173.xxx) DOT Quantity Limitations Passenger aircraft/rail : 25 kg

(49 CFR 173.27)

DOT Quantity Limitations Cargo aircraft only (49 : 100 kg

CFR 175.75)

**DOT Vessel Stowage Location** 

: B - (i) The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length; and (ii) "On deck only" on passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this

**DOT Vessel Stowage Other** 40 - Stow "clear of living quarters",55 - Stow "separated from" ammonia

Emergency Response Guide (ERG) Number : 154

Other information : No supplementary information available.

### **Transportation of Dangerous Goods**

### Transport by sea

Transport document description (IMDG) : UN 3495 IODINE, 8 (6.1), III, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS

UN-No. (IMDG) : 3495 Proper Shipping Name (IMDG) : IODINE

Class (IMDG) : 8 - Corrosive substances

Packing group (IMDG) : III - substances presenting low danger

Subsidiary risks (IMDG) : 6.1 - Toxic substances

Limited quantities (IMDG) : 5 kg

### Air transport

Transport document description (IATA) : UN 3495 Iodine, 8 (6.1), III, ENVIRONMENTALLY HAZARDOUS

: 3495 UN-No. (IATA) Proper Shipping Name (IATA) : lodine Class (IATA) : 8 - Corrosives Packing group (IATA) : III - Minor Danger Subsidiary hazards (IATA) : 6.1 - Toxic substances

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## **SECTION 15: Regulatory information**

### 15.1. US Federal regulations

No additional information available

### 15.2. International regulations

### **CANADA**

No additional information available

**EU-Regulations** 

No additional information available

**National regulations** 

No additional information available

### 15.3. US State regulations

No additional information available

# **SECTION 16: Other information**

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Data sources : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE

COUNCIL of 16 December 2008 on classification, labeling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending

Regulation (EC) No 1907/2006.

Other information : None.

### Full text of H-phrases:

H312	Harmful in contact with skin
H332	Harmful if inhaled

# SDS US (GHS HazCom 2012)

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, expressed or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigation to determine the suitability of the information for their particular purposes.

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