

# SAFETY DATA SHEET

Revision Date 30-March-2024 Revision Number 3

## 1. Identification

Product Name Silicon(IV) iodide

Cat No.: 96390

CAS-No 13465-84-4

Synonyms No information available

Recommended Use Laboratory chemicals.

**Uses advised against** Food, drug, pesticide or biocidal product use.

## Details of the supplier of the safety data sheet

## Company

## Importer/Distributor

Fisher Scientific 112 Colonnade Road, Ottawa, ON K2E 7L6, Canada

Tel: 1-800-234-7437

## **Emergency Telephone Number**

For information **US** call: 001-800-227-6701 / **Europe** call: +32 14 57 52 11 Emergency Number **US**:001-201-796-7100 / **Europe**: +32 14 57 52 99 **CHEMTREC** Tel. No. **US**:001-800-424-9300 / **Europe**:001-703-527-3887

## 2. Hazard(s) identification

### Classification

WHMIS 2015 Classification Classified as hazardous under the Hazardous Products Regulations (SOR/2015-17)

Acute oral toxicity

Skin Corrosion/Irritation

Serious Eye Damage/Eye Irritation

Specific target organ toxicity (single exposure)

Category 1

Category 1

Category 3

Target Organs - Respiratory system.

Physical Hazards Not Otherwise Classified Category 1

Reacts violently with water

## Label Elements

## Signal Word

Danger

## **Hazard Statements**

Toxic if swallowed Causes severe skin burns and eye damage May cause respiratory irritation Reacts violently with water



## **Precautionary Statements**

### Prevention

Do not allow contact with water Keep container tightly closed

Do not breathe dust/fumes/gas/mist/vapours/spray

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Use only outdoors or in a well-ventilated area

Wear protective gloves/protective clothing/eye protection/face protection

#### Response

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

IF INHALED: Remove person to fresh air and keep comfortable for breathing

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/doctor

Rinse mouth

Do NOT induce vomiting

Wash contaminated clothing before reuse

## Storage

Store locked up

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

### Disposal

Dispose of contents/container to an approved waste disposal plant

## Other Hazards

Light sensitive

# 3. Composition/Information on Ingredients

| Component          | CAS-No     | Weight % |
|--------------------|------------|----------|
| Silane, tetraiodo- | 13465-84-4 | <=100    |

## 4. First-aid measures

**General Advice** Show this safety data sheet to the doctor in attendance. Immediate medical attention is

required.

Eye Contact In the case of contact with eyes, rinse immediately with plenty of water and seek medical

advice.

Skin Contact Wash off immediately with plenty of water for at least 15 minutes. Immediate medical

attention is required.

**Inhalation** Remove to fresh air. If not breathing, give artificial respiration. Do not use mouth-to-mouth

method if victim ingested or inhaled the substance; give 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. Call a physician or poison control center immediately.

Most important symptoms/effects 
Causes burns by all exposure routes. Product is a corrosive material. Use of gastric

lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated: Ingestion causes severe swelling, severe damage to the delicate tissue

and danger of perforation

Notes to Physician Treat symptomatically

## 5. Fire-fighting measures

Suitable Extinguishing Media Not combustible. CO 2, dry chemical, dry sand, alcohol-resistant foam.

Unsuitable Extinguishing Media No information available

Flash Point No information available No information available

**Autoignition Temperature** 

**Explosion Limits** 

No information available

Upper No data available
Lower No data available
Sensitivity to Mechanical Impact No information available
Sensitivity to Static Discharge No information available

### Specific Hazards Arising from the Chemical

The product causes burns of eyes, skin and mucous membranes. Reacts violently with water.

## **Hazardous Combustion Products**

Hvdrogen iodide. Silicon dioxide.

## **Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Thermal decomposition can lead to release of irritating gases and vapors.

NFPA

| Health | Flammability | Instability | Physical hazards |
|--------|--------------|-------------|------------------|
| 4      | 0            | 2           | W                |

# Contain release measures Dersonal Precautions Use personal protective equipment as required. Evacuate personnel to safe areas. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Avoid dust formation. Should not be released into the environment. See Section 12 for additional Ecological Information.

Methods for Containment and Clean Sweep up and shovel into suitable containers for disposal. Avoid dust formation. Do not up expose spill to water.

| •        |   |
|----------|---|
|          | 7. Handling and storage   |
| Handling | Wear personal protective equipment/face protection. Do not get in eyes, on skin, or on clothing. Use only under a chemical fume hood. Do not ingest. If swallowed then seek immediate medical assistance. Do not breathe (dust, vapor, mist, gas). Avoid dust formation. Do not allow contact with water. |
| Storage. | Corrosives area. Keep away from water or moist air. Keep containers tightly closed in a dry, cool and well-ventilated place. Incompatible Materials. Strong bases. Oxidizing agent.   |

## 8. Exposure controls / personal protection

**Exposure Guidelines** 

This product does not contain any hazardous materials with occupational exposure limitsestablished by the region specific regulatory bodies.

**Engineering Measures** 

None under normal use conditions. Ensure that eyewash stations and safety showers are

close to the workstation location.

## Personal protective equipment

**Eye Protection** 

Goggles

**Hand Protection** Wear appropriate protective gloves and clothing to prevent skin exposure.

| Glove material | Breakthrough time | Glove thickness | Glove comments         |
|----------------|-------------------|-----------------|------------------------|
| Natural rubber | See manufacturers | -               | Splash protection only |
| Nitrile rubber | recommendations   |                 |                        |
| Neoprene       |                   |                 |                        |
| PVC            |                   |                 |                        |

Inspect gloves before use. observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. (Refer to manufacturer/supplier for information) gloves are suitable for the task: Chemical compatability, Dexterity, Operational conditions, User susceptibility, e.g. sensitisation effects, also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion. gloves with care avoiding skin contamination.

### **Respiratory Protection**

No protective equipment is needed under normal use conditions.

Recommended Filter type: Particle filter

### **Environmental exposure controls**

No information available.

### **Hygiene Measures**

Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Wash hands before breaks and after work.

## 9. Physical and chemical properties

Solid Crystalline **Physical State** 

No information available **Appearance** 

Odor No information available **Odor Threshold** No information available No information available

120 °C / 248 °F Melting Point/Range 290 °C / 554 °F **Boiling Point/Range** Flash Point No information available

**Evaporation Rate** Not applicable

No information available Flammability (solid,gas)

Flammability or explosive limits Upper No data available

Lower No data available **Vapor Pressure** No information available **Vapor Density** Not applicable

**Specific Gravity** 4.198 g/cm3 No information available

Solubility

Partition coefficient: n-octanol/water

No data available No information available **Autoignition Temperature Decomposition Temperature** No information available Not applicable

**Viscosity** 

Molecular Formula I4 Si 535.70 **Molecular Weight** 

# 10. Stability and reactivity

**Reactive Hazard** Yes

Air sensitive. Moisture sensitive. Light sensitive. Stability

**Conditions to Avoid** Exposure to moist air or water. Exposure to moisture.

**Incompatible Materials** Strong bases, Oxidizing agent

Hazardous Decomposition Products Hydrogen iodide, Silicon dioxide

**Hazardous Polymerization** Hazardous polymerization does not occur.

None under normal processing. Reacts violently with water. **Hazardous Reactions** 

## 11. Toxicological information

**Acute Toxicity** 

Carcinogenicity

**Product Information Component Information** 

**Toxicologically Synergistic** No information available

**Products** 

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

Irritation No information available No information available Sensitization

| Component         | CAS-No     | IARC       | NTP        | ACGIH      | OSHA       | Mexico     |
|-------------------|------------|------------|------------|------------|------------|------------|
| Silane tetraiodo- | 13465-84-4 | Not listed |

**Mutagenic Effects** No information available

**Reproductive Effects** No information available.

No information available. **Developmental Effects** 

**Teratogenicity** No information available.

STOT - single exposure Respiratory system None known STOT - repeated exposure

No information available **Aspiration hazard** 

delayed

Symptoms / effects,both acute and Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated: Ingestion causes

The table below indicates whether each agency has listed any ingredient as a carcinogen.

severe swelling, severe damage to the delicate tissue and danger of perforation

**Endocrine Disruptor Information** No information available

**Other Adverse Effects** The toxicological properties have not been fully investigated.

# 12. Ecological information

**Ecotoxicity** 

Do not empty into drains.

Persistence and Degradability No information available

**Bioaccumulation/ Accumulation** No information available.

**Mobility** No information available.

## 13. Disposal considerations

**Waste Disposal Methods** 

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

# 14. Transport information

DOT

UN-No UN2923

Proper Shipping Name Corrosive solid, toxic, n.o.s.

Technical Name (Silicon(IV) iodide)

Hazard Class 8
Subsidiary Hazard Class 6.1
Packing Group ||

TDG

UN-No UN2923

Proper Shipping Name Corrosive solid, toxic, n.o.s.

Hazard Class 8
Subsidiary Hazard Class 6.1
Packing Group ||

<u>IATA</u>

UN-No UN2923

Proper Shipping Name CORROSIVE SOLID, TOXIC, N.O.S.\*

Hazard Class 8
Subsidiary Hazard Class 6.1
Packing Group II

IMDG/IMO

UN-No UN2923

Proper Shipping Name Corrosive solid, toxic, n.o.s.

Hazard Class 8
Subsidiary Hazard Class 6.1
Packing Group II

# 15. Regulatory information

### International Inventories

| Component          | CAS-No     | DSL | NDSL | TSCA | TSCA Inventory<br>notification -<br>Active-Inactive | EINECS    | ELINCS | NLP |
|--------------------|------------|-----|------|------|---|-----------|--------|-----|
| Silane, tetraiodo- | 13465-84-4 | -   | Х    | X    | ACTIVE  | 236-706-2 | -      | -   |

| Component          | CAS-No     | IECSC | KECL     | ENCS | ISHL | TCSI | AICS | NZIoC | PICCS |
|--------------------|------------|-------|----------|------|------|------|------|-------|-------|
| Silane, tetraiodo- | 13465-84-4 | -     | KE-31046 | X    | X    | X    | -    | -     | -     |

Legend:

X - Listed '-' - Not Listed

KECL - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

IECSC - Chinese Inventory of Existing Chemical Substances KECL - Korean Existing and Evaluated Chemical Substances

**ENCS** - Japanese Existing and New Chemical Substances

AICS - Australian Inventory of Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

### Canada

SDS in compliance with provisions of information as set out in Canadian Standard - Part 4, Schedule 1 and 2 of the Hazardous Products Regulations (HPR) and meets the requirements of the HPR (Paragraph 13(1)(a) of the Hazardous Products Act (HPA)).

## **Other International Regulations**

Authorisation/Restrictions according to EU REACH

Not applicable

### Safety, health and environmental regulations/legislation specific for the substance or mixture

|      | Component       | CAS-No     | OECD HPV             | Persistent Organic<br>Pollutant | Ozone Depletion<br>Potential | Restriction of<br>Hazardous<br>Substances (RoHS) |
|------|-----------------|------------|----------------------|---------------------------------|------------------------------|--|
| Sila | ane, tetraiodo- | 13465-84-4 | Not applicable       | Not applicable                  | Not applicable               | Not applicable                                   |
|      |                 |            |                      |                                 |                              |  |
|      | Component       | CAS-No     | Seveso III Directive | Seveso III Directive            | Rotterdam                    | Basel Convention                                 |

| Component          | CAS-No     | Seveso III Directive                   | Seveso III Directive  | Rotterdam        | Basel Convention  |
|--------------------|------------|--|-----------------------|------------------|-------------------|
|                    |            | (2012/18/EC) - (2012/18/EC) -          |                       | Convention (PIC) | (Hazardous Waste) |
|                    |            | <b>Qualifying Quantities</b>           | Qualifying Quantities |                  |                   |
|                    |            | for Major Accident   for Safety Report |                       |                  |                   |
|                    |            | Notification                           | Requirements          |                  |                   |
| Silane, tetraiodo- | 13465-84-4 | Not applicable                         | Not applicable        | Not applicable   | Not applicable    |

## 16. Other information

Prepared By Product Safety Department

Email: chem.techinfo@thermofisher.com

www.thermofisher.com

**Revision Date** 30-March-2024 **Print Date** 30-March-2024

**Revision Summary** New emergency telephone response service provider.

## Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

End of SDS