

**SDS** #: 407

**Revision Date:** April 1, 2016

12/9/2024:: File reviewed, more current MSDS/SDS not available. CAS

Safety Data Sheet (SDS)

#### SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Signal Word WARNING

**Iodine** 

Flinn Scientific, Inc. P.O. Box 219, Batavia, IL 60510 (800) 452-1261

Chemtrec Emergency Phone Number: (800) 424-9869

Pictograms

## SECTION 2 — HAZARDS IDENTIFICATION

Hazard class: Acute toxicity, dermal and inhalation (Category 4). Harmful if inhaled or in contact with skin (H312+H332).



#### SECTION 3 — COMPOSITION, INFORMATION ON INGREDIENTS

<b>Component Name</b>	CAS Number	Formula	Formula Weight	Concentration
Iodine	7553-56-2	$I_2$	253.81	

## SECTION 4 — FIRST AID MEASURES

Immediately call a POISON CENTER or physician (P310).

If inhaled: Remove victim to fresh air in a position comfortable for breathing (P304+P340).

**If in eyes:** Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so. Continue rinsing (P305+P351+P338). **If on skin:** Immediately remove all contaminated clothing. Rinse skin with water (P303+P361+P353). Wash contaminated clothing before reuse (P363).

If swallowed: Rinse mouth. Do NOT induce vomiting (P301+P330+P331).

## SECTION 5 — FIRE FIGHTING MEASURES

Nonflammable, noncombustible solid.	NFPA Code
When heated to decomposition, may emit toxic fumes.	H:2
In case of fire: Use a tri-class dry chemical fire extinguisher.	F:0
	R· 2

### SECTION 6 — ACCIDENTAL RELEASE MEASURES

Ventilate area. Sweep up the spill, place in a sealed bag or container, and dispose. Wash spill site after material pickup is complete. See Sections 8 and 13 for further information.

## SECTION 7 — HANDLING AND STORAGE

Flinn Suggested Chemical Storage Pattern: Inorganic #2. Store with acetates, halides, sulfates, sulfates, thiosulfates and phosphates. Sublimes. Store in a Flinn Chem-Saf<sup>TM</sup> bag. Store in a cool, dry place. Frequently oxidizes metal shelves or metal containers in proximity to the iodine. Use only in a hood or well-ventilated area (P271). Do not breathe dust or fumes (P260).

## SECTION 8 — EXPOSURE CONTROLS, PERSONAL PROTECTION

Wear protective gloves, protective clothing, and eye protection (P280). Wash hands thoroughly after handling (P264). Use only in a hood or well-ventilated area (P271).

Exposure guidelines: Ceiling 0.1 ppm (OSHA); TLV 0.01 ppm (inhalable fraction and vapor) (ACGIH) REL-Ceiling 0.1 ppm (NIOSH)

#### SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Gray-black flakes with a metallic luster. Characteristic

odor.

Soluble: Alcohol and other organic solvents. Insoluble

in water.

Boiling point: 184.4 °C

Melting point: 113.5 °C

Specific gravity: 4.93

Vapor pressure: 0.3 mm Hg

Vapor density: 8.8

## SECTION 10 — STABILITY AND REACTIVITY

Shelf life: Fair, sublimes. See Section 7 for further information.

Incompatible materials: Reacts violently with metal powders, antimony, ammonia, acetaldehyde and acetylene. This generates fire and explosion hazard. Corrodes steel.

## SECTION 11 — TOXICOLOGICAL INFORMATION

Acute effects: Highly toxic, harmful vapor, corrosive,

severe lachrymator, sensitizer, stomach pains, vomiting.

Chronic effects: Dermatitis.

ORL-HUM LD<sub>50</sub>: 28 mg/kg

IHL-RAT LC<sub>50</sub>: N.A.

SKN-RBT LD<sub>50</sub>: N.A.

# SECTION 12 — ECOLOGICAL INFORMATION

Data not yet available.

Target organs: Thyroid.

## SECTION 13 — DISPOSAL CONSIDERATIONS

Please review all federal, state and local regulations that may apply before proceeding.

Flinn Suggested Disposal Method #12a is one option.

## **SECTION 14 — TRANSPORT INFORMATION**

Shipping name: Iodine. UN number: UN3495 Hazard class: 8 (6.1)

#### SECTION 15 — REGULATORY INFORMATION

TSCA-listed, EINECS-listed (231-442-4), RCRA code D002.

#### SECTION 16 — OTHER INFORMATION

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N.A. = Not available, not all health aspects of this substance have been fully investigated.

N/A = Not applicable

Consult your copy of the Flinn Science Catalog/Reference Manual for additional information about laboratory chemicals.

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