

**Section 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier****Product name:** IODINE**CAS number:** 7553-56-2**EINECS number:** 231-442-4**Index number:** 053-001-00-3**1.2. Relevant identified uses of the substance or mixture and uses advised against****1.3. Details of the supplier of the safety data sheet****Company name:** Philip Harris Ltd

2 Gregory Street

Hyde

Cheshire

SK14 4HR

United Kingdom

**Tel:** +44 (0)845 1200 506**Fax:** +44 (0)161 367 2140**Email:** [enquiries@philipharris.co.uk](mailto:enquiries@philipharris.co.uk)**1.4. Emergency telephone number****Emergency tel:** +44 (0) 845 1200 506**Section 2: Hazards identification****2.1. Classification of the substance or mixture****Classification under CLP:** Acute Tox. 4: H332; Acute Tox. 4: H312; Aquatic Acute 1: H400**Classification under CHIP:** Xn: R20/21; N: R50**Most important adverse effects:** Harmful if inhaled. Harmful in contact with skin. Very toxic to aquatic life.**2.2. Label elements****Label elements under CLP:****Hazard statements:** H332: Harmful if inhaled.

H312: Harmful in contact with skin.

H400: Very toxic to aquatic life.

**Signal words:** Warning**Hazard pictograms:** GHS07: Exclamation mark

GHS09: Environmental



# SAFETY DATA SHEET

IODINE

Page: 2

## 2.3. Other hazards

## Section 3: Composition/information on ingredients

### 3.1. Substances

Chemical identity: IODINE

## Section 4: First aid measures

### 4.1. Description of first aid measures

**Skin contact:** Wash immediately with plenty of soap and water. Remove all contaminated clothes and footwear immediately unless stuck to skin.

**Eye contact:** Bathe the eye with running water for 15 minutes.

**Ingestion:** Make victim drink water (two glasses at most). Consult a doctor.

**Inhalation:** Move to fresh air in case of accidental inhalation of vapours.

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

**Skin contact:** May be harmful if absorbed through skin. May cause skin irritation.

**Eye contact:** There may be irritation and redness.

**Ingestion:** May be harmful if swallowed.

**Inhalation:** May be harmful if inhaled. may cause respiratory tract irritation.

### 4.3. Indication of any immediate medical attention and special treatment needed

## Section 5: Fire-fighting measures

### 5.1. Extinguishing media

**Extinguishing media:** Suitable extinguishing media for the surrounding fire should be used.

### 5.2. Special hazards arising from the substance or mixture

**Exposure hazards:** Not combustible. Ambient fire may liberate hazardous vapours.

### 5.3. Advice for fire-fighters

**Advice for fire-fighters:** Wear self-contained breathing apparatus.

## Section 6: Accidental release measures

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

**Personal precautions:** Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate the area immediately.

### 6.2. Environmental precautions

**Environmental precautions:** Do not discharge into drains or rivers.

### 6.3. Methods and material for containment and cleaning up

**Clean-up procedures:** Take up with liquid-absorbent and neutralising material (eg Chemizorb). Dispose of properly. Clean up affected area.

[cont...]

# SAFETY DATA SHEET

IODINE

Page: 3

## 6.4. Reference to other sections

**Reference to other sections:** Refer to section 13 of SDS.

## Section 7: Handling and storage

### 7.1. Precautions for safe handling

**Handling requirements:** Observe label precautions.

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

**Storage conditions:** Keep container tightly closed. Storage temperature 15-25oC

### 7.3. Specific end use(s)

## Section 8: Exposure controls/personal protection

### 8.1. Control parameters

**Workplace exposure limits:**

**Respirable dust**

State	8 hour TWA	15 min. STEL	8 hour TWA	15 min. STEL
UK	-	1.1 mg/m3	-	-

### 8.1. DNEL/PNEC Values

**DNEL / PNEC** No data available.

### 8.2. Exposure controls

**Engineering measures:** Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

**Respiratory protection:** Respiratory protection (filtering half face mask DIN EN 149) is required at aerosol or mist formation.

**Hand protection:** Nitrile gloves. Breakthrough time of the glove material > 8 hours.

**Eye protection:** Safety glasses.

**Skin protection:** Protective clothing.

## Section 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

**State:** Liquid

**Colour:** Dark brown

**Odour:** Slight

**Evaporation rate:** No data available

**Oxidising:** No data available

**Solubility in water:** Soluble

**Viscosity:** No data available

**Relative density:** 1.02 g/cm3

**pH:** 3.5 at 20oC

[cont...]

# SAFETY DATA SHEET

IODINE

Page: 4

## 9.2. Other information

**Other information:** No data available.

## Section 10: Stability and reactivity

### 10.1. Reactivity

**Reactivity:** See section 10.3

### 10.2. Chemical stability

**Chemical stability:** Stable at room temperature.

### 10.3. Possibility of hazardous reactions

**Hazardous reactions:** Violent reactions possible with: The generally known reaction partners of water.

### 10.4. Conditions to avoid

**Conditions to avoid:** No data available

### 10.5. Incompatible materials

**Materials to avoid:** No data available.

### 10.6. Hazardous decomposition products

**Haz. decomp. products:** No data available.

## Section 11: Toxicological information

### 11.1. Information on toxicological effects

#### Toxicity values:

Route	Species	Test	Value	Units
ORL	MUS	LD50	22	gm/kg
ORL	RAT	LD50	14	gm/kg
SCU	RAT	LD50	10500	mg/kg

#### Relevant hazards for substance:

Hazard	Route	Basis
Acute toxicity (ac. tox. 4)	INH DRM	Based on test data

### Symptoms / routes of exposure

**Skin contact:** May be harmful if absorbed through skin. May cause skin irritation.

**Eye contact:** There may be irritation and redness.

**Ingestion:** May be harmful if swallowed.

**Inhalation:** May be harmful if inhaled. May cause respiratory tract irritation.

## Section 12: Ecological information

[cont...]

# SAFETY DATA SHEET

IODINE

Page: 5

## 12.1. Toxicity

**Ecotoxicity values:** No data available.

## 12.2. Persistence and degradability

**Persistence and degradability:** No data available.

## 12.3. Bioaccumulative potential

**Bioaccumulative potential:** No data available.

## 12.4. Mobility in soil

**Mobility:** Not applicable.

## 12.5. Results of PBT and vPvB assessment

**PBT identification:** This product is not identified as a PBT substance.

## 12.6. Other adverse effects

**Other adverse effects:** No data available.

## Section 13: Disposal considerations

### 13.1. Waste treatment methods

**Disposal operations:** Transfer to a suitable container and arrange for collection by specialised disposal company.

**Disposal of packaging:** Dispose of as unused product.

## Section 14: Transport information

**Transport class:** This product does not require a classification for transport.

## Section 15: Regulatory information

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

### 15.2. Chemical Safety Assessment

## Section 16: Other information

### Other information

**Phrases used in s.2 and 3:** H312: Harmful in contact with skin.

H332: Harmful if inhaled.

H400: Very toxic to aquatic life.

R20/21: Harmful by inhalation and in contact with skin.

R50: Very toxic to aquatic organisms.