**IODINE 99.8% BP98** 

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Compilation date: 19/11/2018

Revision No: 1

# Section 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Product name: IODINE 99.8% BP98

CAS number: 7553-56-2
EINECS number: 231-442-4
Product code: RRBD82

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of substance / mixture: PC21: Laboratory chemicals.

#### 1.3. Details of the supplier of the safety data sheet

Select School Supplies
The Old Granary
Berghill House
Oswestry
SY11 4PD
01691 770366



sales@selectschoolsupplies.co.uk

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# **Section 2: Hazards identification**

#### 2.1. Classification of the substance or mixture

Classification under CLP: Acute Tox. 4: H312+332; Skin Irrit. 2: H315; Eye Irrit. 2: H319; STOT SE 3: H335; STOT RE

1: H372; Aquatic Acute 1: H400

Classification under CHIP: Xn: R20/21; N: R50

Most important adverse effects: Harmful in contact with skin or if inhaled. Causes skin irritation. Causes serious eye

irritation. May cause respiratory irritation. Causes damage to organs [thyroid] through

prolonged or repeated exposure [oral]. Very toxic to aquatic life.

# 2.2. Label elements

#### Label elements under CLP:

Hazard statements: H312+332: Harmful in contact with skin or if inhaled.

H315: Causes skin irritation.

H319: Causes serious eye irritation.H335: May cause respiratory irritation.

H372: Causes damage to organs [thyroid] through prolonged or repeated exposure

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[oral].

H400: Very toxic to aquatic life.

Signal words: Danger

Hazard pictograms: GHS07: Exclamation mark

GHS08: Health hazard GHS09: Environmental







Precautionary statements: P261: Avoid breathing dust/fumes/gas/mist/vapours/spray.

P273: Avoid release to the environment.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

P314: Get medical advice/attention if you feel unwell.

#### 2.3. Other hazards

Other hazards: This substance/mixture contains no components considered to be either persistent,

bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at

levels of 0.1% or higher.

PBT: This product is not identified as a PBT/vPvB substance.

# Section 3: Composition/information on ingredients

#### 3.1. Substances

Chemical identity: IODINE 99.8% BP98

**CAS number:** 7553-56-2 **EINECS number:** 231-442-4

Contains: Molecular Formula: 12

Molecular Weight: 253.81 g/mol

#### Section 4: First aid measures

### 4.1. Description of first aid measures

Skin contact: Wash immediately with plenty of soap and water. Take immediately to hospital. Consult

a doctor.

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

Ingestion: Never give anything by mouth to an unconscious person. Wash out mouth with water.

Consult a doctor.

Inhalation: Move to fresh air in case of accidental inhalation of vapours. If unconscious, check for

breathing and apply artificial respiration if necessary. Consult a doctor.

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

**Skin contact:** There may be mild irritation at the site of contact.

Eye contact: There may be irritation and redness.

Ingestion: No data available.Inhalation: No data available.

Delayed / immediate effects: No data available.

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

Immediate / special treatment: No data available.

# Section 5: Fire-fighting measures

#### 5.1. Extinguishing media

Extinguishing media: Water spray. Alcohol resistant foam. Dry chemical powder. Carbon dioxide.

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

Exposure hazards: Not applicable.

#### 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: Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist

or gas. Ensure adequate ventilation. Avoid breathing dust. For personal protection see

section 8.

#### 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: Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in

suitable, closed containers for disposal.

### 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: Avoid contact with skin and eyes. Avoid formation of dust and aerosols.

Provide appropriate exhaust ventilation at places where dust is formed. For precautions

see section 2.2.

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

Storage conditions: Store in cool, well ventilated area. Keep container tightly closed. Handle and store under

inert gas. Hygroscopic.

Suitable packaging: Not applicable.

#### 7.3. Specific end use(s)

Specific end use(s): No special requirement.

#### 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
EU	-	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: Particle filter class P2S (EN143). Self-contained breathing apparatus must be available

in case of emergency.

Hand protection: Full contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm

Break through time: 480 min Splash contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm

Break through time: 480 min Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices.

Wash and dry hands.

Eye protection: Face-shield. Safety glasses. Use equipment for eye protection tested and approved

under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection: Complete suit protecting against chemicals. The type of protective equipment must be

selected according to the concentration and amount of the dangerous substance at the

specific workplace.

Environmental: Do not let product enter drains. Prevent from entering in public sewers or the immediate

environment.

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# Section 9: Physical and chemical properties

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

State: Solid
Colour: Black

Odour: Pungent

Boiling point/range°C: 184 Melting point/range°C: 113

Part.coeff. n-octanol/water: log Pow: 2.49 Vapour pressure: 0.41 hPa at 25 °C

Relative density: 4.930 g/cm3 pH: 5.4

9.2. Other information

Other information: Not applicable.

### Section 10: Stability and reactivity

### 10.1. Reactivity

Reactivity: No data available.

# 10.2. Chemical stability

Chemical stability: No data available.

### 10.3. Possibility of hazardous reactions

Hazardous reactions: No data available.

# 10.4. Conditions to avoid

Conditions to avoid: No data available.

# 10.5. Incompatible materials

Materials to avoid: Rubber, Plastics, Iron and iron salts., Sulphur compounds, Ammonia, Magnesium, Zinc,

Aluminum, Metals, Alkalis, Antimony salts, Arsenites, bromides, chlorides, iodides, thiocyanates, ferrous salts Hypophosphites, morphine salts, oils, creosote, phosphates, tannins, tartrates, Mixing iodine, antimony, and ammonia resulted in an explosion. A violent reaction occurs between iodine and acetaldehyde, Acetylene, Acetaldehyde,

Strong oxidizing agents

### 10.6. Hazardous decomposition products

Haz. decomp. products: In combustion emits toxic fumes of hydrogen iodide.

### **Section 11: Toxicological information**

### 11.1. Information on toxicological effects

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#### Relevant hazards for substance:

Hazard	Route	Basis	
Acute toxicity (ac. tox. 4)	INH DRM	Based on test data	
Skin corrosion/irritation	DRM	Based on test data	
Serious eye damage/irritation	OPT	Based on test data	
STOT-single exposure	INH	Based on test data	
STOT-repeated exposure	-	Based on test data	

### Symptoms / routes of exposure

**Skin contact:** There may be mild irritation at the site of contact.

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

Ingestion: No data available.

Inhalation: No data available.

Delayed / immediate effects: No data available.

Other information: Not applicable.

# Section 12: Ecological information

### 12.1. Toxicity

#### **Ecotoxicity values:**

Species	Test	Value	Units
FISH	96H LC50	1.7	mg/l
DAPHNIA	48H EC50	0.2	mg/l
ALGAE	48H EC50	0.13	mg/l

### 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: No data available.

# 12.5. Results of PBT and vPvB assessment

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

### 12.6. Other adverse effects

Other adverse effects: Very toxic to aquatic organisms.

# Section 13: Disposal considerations

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#### 13.1. Waste treatment methods

Disposal operations: Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or

mix the material with a combustible solvent and burn in a chemical incinerator equipped

with an afterburner and scrubber.

Recovery operations: Not applicable.

Disposal of packaging: Dispose of as unused product.

NB: The user's attention is drawn to the possible existence of regional or national

regulations regarding disposal.

### **Section 14: Transport information**

#### 14.1. UN number

UN number: UN3495

#### 14.2. UN proper shipping name

Shipping name: ADR/RID: IODINE

IMDG: IODINE IATA: Iodine

### 14.3. Transport hazard class(es)

Transport class: 8 (6.1)

#### 14.4. Packing group

Packing group: 3

### 14.5. Environmental hazards

Environmentally hazardous: Yes Marine pollutant: Yes

#### 14.6. Special precautions for user

**Special precautions:** No special precautions.

### Section 15: Regulatory information

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

**Specific regulations:** This safety datasheet complies with the requirements of Regulation (EC) No.

1907/2006.

# 15.2. Chemical Safety Assessment

Chemical safety assessment: A chemical safety assessment has not been carried out for the substance or the mixture

by the supplier.

#### **Section 16: Other information**

### Other information

Other information: This safety data sheet is prepared in accordance with Commission Regulation (EU) No

453/2010.

\* indicates text in the SDS which has changed since the last revision.

[cont...]

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Phrases used in s.2 and 3: H312+332: Harmful in contact with skin or if inhaled.

H315: Causes skin irritation.

H319: Causes serious eye irritation.

H335: May cause respiratory irritation.

H372: Causes damage to organs <or state all organs affected, if known> through

prolonged or repeated exposure <state route of exposure if it is conclusively proven that

no other routes of exposure cause the hazard>.

H400: Very toxic to aquatic life.

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

R50: Very toxic to aquatic organisms.

Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive

and shall be used only as a guide. This company shall not be held liable for any

damage resulting from handling or from contact with the above product.