WF Education Group - Safety Data Sheet

(in accordance with regulation (EU) 2015/830 and regulation (EC) 1272/2008)

Revision: 1.1 Revision date: 16 April 2021 07 June 2021 Date printed:

Section 1. Identification

Product Identifier IO3142

> Product Name IODINE L.R. 500g.

CAS Number

REACH Registration No A registration number is not available as the substance or its uses are exempt, the

annual tonnage does not require a registration or the registration is envisaged for a

later date.

=253.81 Molecular Formula

1.2 Relevent identified uses of the substance or mixure & uses advised against

Uses of Material Chemical for industrial and laboratory use. Not suitable for domestic use.

1.3 WF Education Group **Supplier**



Phoenix House

Battlefield Enterprise Park

Stafford Drive Shrewsbury Shropshire SY1 3FE

UNITED KINGDOM

Phone +44(0)1743 812200 Email sales@wf-education.com Website www.timstar.co.uk

Emergency Telephone (08:30-17:00) +44(0)1743 812200

> (24hr) (Have this document to hand)

Section 2. Hazards Identification

2.1 Classification of the substance or mixture

Classification according to regulation 1272/2008/EC

Acute toxicity, category 4 (dermal) Acute toxicity, category 4 (inhalation)

Spec target organ tox - single, category 3

Spec target organ tox - repeat, category 1 Hazard to aquatic environment, category 1 H312: Harmful in contact with skin.

H332: Harmful if inhaled.

H335: May cause respiratory irritation.

H372: Causes damage to organs through prolonged or repeated exposure.

H400: Very toxic to aquatic life.

2.2 Label elements

Labelling according to regulation 1272/2008/EC

Signal word Danger

Hazard Pictograms





Ref: 103142



Harmful if inhaled. Harmful in contact with skin. Very toxic to aquatic life. May cause respiratory irritation. Hazard Statements

Causes damage to organs through prolonged or repeated exposure.

Precautionary Statements Wear protective gloves / protective clothing / eye protection / face protection. Avoid breathing dust / fume / gas /

mist / vapours / spray. Use only outdoors or in a well-ventilated area. Wash contaminated clothing before reuse. IF ON SKIN: Wash with plenty of soap and water. Avoid release to the environment.

Section 3. Composition

3.1 Substances

Component	CAS No.	EEC No.	REACH No.	Conc w/w	CLP Classification (1272/2008/CE)
Iodine	7553-56-2	553-56-2 231-442-4		>99%	Acute Tox. 4 (D), Acute Tox. 4 (I), STOT SE 3 (I), STOT RE 1, Aquatic Acute 1

Section 4. First Aid

4.1 Description of first aid measures

Eves Irrigate thoroughly with plenty of water for at least 10 minutes, holding the eye open. OBTAIN MEDICAL

ATTENTION URGENTLY.

Skin Wash contaminated area with sodium thiosulphate solution. Remove contaminated clothing immediately and

wash before re-use. If discomfort persists OBTAIN MEDICAL ATTENTION.

Remove from exposure. Keep warm and at rest. If there is difficulty in breathing give oxygen if available. If breathing stops or shows signs of failing, apply artificial resuscitation. OBTAIN MEDICAL ATTENTION Inhalation

URGENTLY.

Ingestion If conscious give several glasses of a 5% sodium thiosulphate solution to drink then administer a salt containing

purgative to induce vomiting. OBTAIN MEDICAL ATTENTION URGENTLY.

Personal protection for first Wear protective gloves / eye protection.

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

No further relevant information available.

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

No further relevant information available.

Section 5. Fire Fighting

5.1 Extinguishing media

Extinguishing Media Consider what other flammable materials are present and act accordingly.

Unsuitable Media Nothing specified.

5.2 Special hazards arising from the substance or mixture

Hazards May evolve toxic fumes if involved in a fire.

5.3 Advice for firefighters

Advice for firefighters Evacuate area immediately. Keep up wind. Avoid exposure to toxic vapours and fumes. Fire-fighters should wear

protective clothing and breathing apparatus.

Section 6. Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal Protection Avoid breathing vapour. Only re-enter area with full protective clothing and breathing apparatus. Do not allow

other people to enter area. Do not allow general use of area until it is safe to do so.

6.2 Environmental precautions

Enviromental Notify the Environmental Agency and local Environmental Health Officer if major spillage occurs.

6.3 Methods and material for containment and cleaning up

Major Spillage Shovel/sweep up into container for removal Wash area down with sodium thiosulphate solution and copious

amounts of water.

Minor Spillage Shovel/sweep up into container for removal Wash area down with sodium thiosulphate solution and copious

amounts of water.

6.4 Reference to other sections

See section 8.2 for information on protective equipment and section 13 for information on disposal.

Section 7. Storage & Handling

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Do not breath vapours. Do not allow to contaminate clothing.

Ensure Local Exhaust Ventilation maintains vapour concentrations below the recommended limits.

7.2 Conditions for safe storage, including any incompatibilities

Well ventilated, cool, dry storage . Keep well separated from food and food containers.

7.3 Specific end use(s)

See section 1.2.

Section 8. Workplace Exposure & Personal Protection

8.1 Control parameters

Component	CAS No	Concentration	Workplace Exposure Limits			
			Long Term	(8hr TWA)	Short Term 15min	period)
Iodine	7553-56-2	>99%	-	-	0.1 ppm	1.0 mg/m-3

Exposure data source(s) IOELV: Indicative Occupational Exposure Limit Value.

8.2 Exposure controls

maintained chemical cartridge organic vapour respirator, or use self contained breathing apparatus.

Hand Protection Wear gloves.

Skin Protection Avoid contact with skin. If skin contact or contamination of clothing is likely, protective clothing must be worn.

Special Hazards No special precautions required.

Section 9. Physical & Chemical Properties

9.1 Information on basic physical and chemical properties

Appearance Bluish-black prills which evolve a violet corrosive vapour.

Odour Pungent and intensely irritating.

pH Not applicable
Boiling Point 184.3°C
Melting Point 113°C
Flash Point Not applicable
Upper Flammable Limit Not applicable
Lower Flammable Limit Not applicable
For leading Preparation Not applicable
Explosive Preparation

Explosive Properties No. Oxidising Properties No.

Vapour Pressure Not applicable

Relative Density 4.9300

Water Solubility Sparingly soluble in water.

9.2 Other information

No data available.

Section 10. Stability & Reactivity

10.1 Reactivity No data available.

10.2 Chemical Stability Stable under normal conditions

10.3 Possibility of hazardous

reactions

No data available.

10.4 Conditions to Avoid Prolonged heat.

10.5 Incompatable Materials Forms highly explosive compounds with ammonia which are shock sensitive. Reacts violently with reducing

materials, sulphur, iron, alkali metals and phosphorous. Moisture ignites mixtures with aluminium, magnesium

and zinc powders.

Hazardous Decomposition Decomposes to evolve toxic and corrosive iodine vapour.

Products

Section 11. Toxicological Information

11.1 Information on toxicological effects

Eyes The vapour is irritating to the eyes.

Skin Stains skin. Intensely irritating to the skin causing redness, pain and burns. Skin absorbtion may be an important

exposure route producing toxic effects similar to inhalation.

LD50 Skin 1425mg/kg Rat

Ingestion Ingestion of large amounts will cause abdominal pain, nausea, vomiting and diarrhoea. Purging, excessive thirst

and circulatory failure may develop in severe cases.

LD50 Oral 14000mg/kg Rat

Inhalation Exposure to vapour concentrations above the occupational exposure limits will produce severe irritation of the

eyes, nose, throat and respiratory tract. Symptoms include sore throat, cough and laboured breathing.

LD50 Inhalation >4.588mg/l Rat (4 hours)

TCLo Not available

Carcinogenicity Not considered to be a carcinogen. Not considered to be a mutagen. Mutagenicity

Reproductive Effects None identified.

Section 12. Ecological

12.1 Toxicity Very toxic to aquatic organisms.

LC50 Algal 0.13mg/l Green algae

LC50 Crustacea 0.2mg/l Daphnia magna (48 hours) LC50 Fish 1.7mg/l Rainbow trout (96 hours)

12.2 Persistence and No data available.

degradability

No data available. **12.3** Bioaccumulative potential

12.4 Mobility in soil No data available.

Results of PBT & vPvB

assessment

Assessment not required.

12.6 Other adverse effects None known at present.

Section 13. Disposal Considerations

13.1 Waste treatment methods

Disposal Methods Dissolve in an excess of water and treat with sodium thiosulphate solution until the purple colour disappears.

Wash to drain with copious amounts of water.

Contaminated Packaging Wash out containers with water. Use a licensed waste disposer.

Section 14. Transport Information

14.1 UN Number 349514.2 Proper Shipping Name Iodine

14.3 Transport classes

UN classification 8
Subsidiary hazard(s) 6.1
Transport category 3
ADR Hazard ID 86
Tunnel Restriction Code E

14.4 Packing Group III

14.5 Environment hazards See section 12.

14.6 Special precautions for No special precautions required.

user

14.7 Transport in bulk Not transported in bulk.



Section 15. Regulatory Information

$15.1\ Safety, health\ and\ environment\ regulations\ specific\ for\ subtance/mixture.$

Classification, Labeling & Packaging of Substances & Mixtures Regulations (1272/2008/CE)

Classification Acute toxicity, category 4 (dermal); Acute toxicity, category 4 (inhalation); Spec target organ tox - single, category

3; Spec target organ tox - repeat, category 1; Hazard to aquatic environment, category 1

Signal word Danger

Hazard Pictograms







Hazard Statements H332, H312, H400, H335, H372

Harmful if inhaled. Harmful in contact with skin. Very toxic to aquatic life. May cause respiratory irritation.

Causes damage to organs through prolonged or repeated exposure.

Precautionary Statements P280, P261, P271, P363, P302+P352, P273

Wear protective gloves / protective clothing / eye protection / face protection. Avoid breathing dust / fume / gas / mist / vapours / spray. Use only outdoors or in a well-ventilated area. Wash contaminated clothing before reuse.

IF ON SKIN: Wash with plenty of soap and water. Avoid release to the environment.

15.2 Chemical safety assessment

Assessment not required.

Section 16. Other Information

The information contained in this document only covers the hazards presented by this material, it DOES NOT constitute a workplace risk assessment. See sections 11 for toxicological information and section 12 for ecological information.

Revision number: 1.1 (Supercedes revision 1.0)

Revision date: 16 April 2021

Reviewed by chemist: 16 April 2021

Printed date: 07 June 2021

Copyright: 2021 WF Education Group