

SAFETY DATA SHEET

Creation Date 11-May-2011

Revision Date 11-May-2011

Revision Number 1

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product Name

Gram Iodine (Concentrate)

Cat No.

R40056

Synonyms

No information available.

Recommended Use

Laboratory chemicals

Company

Remel
12076 Santa Fe Drive
Lenexa, KS 66215 United States
Telephone: 1-800-255-6730
Fax:1-800-621-8251

Entity / Business Name

Oxoid Ltd.
Wade Road
Basingstoke, Hants, UK
RG24 8PW
Telephone: +44 (0) 1256 841144

Emergency Telephone Number

Carechem 24: +44 (0) 1865 407333

2. HAZARDS IDENTIFICATION

The preparation is non-dangerous in accordance with Directive 1999/45/EC.

R -phrase(s)

none

3. COMPOSITION/INFORMATION ON INGREDIENTS

Haz/Non-haz

Component	Weight %	EC No.	Classification
Potassium iodide 7681-11-0	35	EEC No. 231-659-4	-
Iodine 7553-56-2	17	EEC No. 231-442-4	Xn;R20/21 N;R50

For the full text of the R phrases mentioned in this Section, see Section 16

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4. FIRST AID MEASURES

Eye Contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician
Skin Contact	Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes
Ingestion	Clean mouth with water and afterwards drink plenty of water. Get medical attention if symptoms occur..
Inhalation	Move to fresh air
Notes to Physician	Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment

Extinguishing media which must not be used for safety reasons

No information available.

Specific Hazards Arising from the Chemical

Keep product and empty container away from heat and sources of ignition

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

Flash Point	Not applicable
Method	No information available.
Autoignition Temperature	No information available.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Avoid contact with skin, eyes and clothing. Ensure adequate ventilation.
Environmental Precautions	Prevent further leakage or spillage if safe to do so. Should not be released into the environment.
Methods for Containment and Clean Up	Soak up with inert absorbent material. Keep in suitable and closed containers for disposal

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7. HANDLING AND STORAGE

Handling Avoid contact with skin, eyes and clothing. Ensure adequate ventilation.

Storage Keep at temperatures between 15° and 30 °C.

Specific use(s) No information available.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limits

Component	European Union	The United Kingdom	Belgium	France	Spain	Germany
Iodine		STEL: 0.1 ppm; 1.1mg/m ³	TWA 0.1ppm; TWA 1mg/m ³	VLCT: 0.1 ppm VLCT: 1 mg/m ³	VLA-EC: 1 mg/m ³ VLA-EC: 0.1 ppm	TWA: 0.1 ppm TWA: 1.1 mg/m ³ skin absorber

Component	Italy	Portugal	The Netherlands	Finland	Austria
Iodine		Ceiling: 0.1 ppm	0.1ppm MAC; 1mg/m ³ MAC	STEL: 0.1 ppm STEL: 1.1 mg/m ³	STEL: 1 mg/m ³ STEL: 0.1 ppm MAK: 0.1 ppm MAK: 1 mg/m ³ Ceiling: 0.1 ppm Ceiling: 1 mg/m ³

Component	Switzerland	Poland	Norway	Ireland	Denmark	Australia
Iodine	STEL: 0.1 ppm STEL: 1 mg/m ³ MAK: 0.1 ppm MAK: 1 mg/m ³	NDS: 1 mg/m ³	Ceiling: 0.1 ppm Ceiling: 1 mg/m ³	STEL: 0.1 ppm STEL: 1 mg/m ³	Ceiling: 1 mg/m ³ Ceiling: 0.1 ppm	

Occupational exposure controls

Engineering Measures Ensure adequate ventilation, especially in confined areas

Personal Protective Equipment

Respiratory Protection

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced

Eye Protection

Tightly fitting safety goggles

Skin and body protection

Wear appropriate protective gloves and clothing to prevent skin exposure

Hand Protection

Protective gloves

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice

Environmental exposure controls No information available.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid
Appearance	Yellow-orange
pH	No information available.
Boiling Point/Range	Not applicable
Melting Point/Range	No information available.
Flash Point	Not applicable

10. STABILITY AND REACTIVITY

Stability	Stable under normal conditions.
Conditions to Avoid	Extremes of temperature and direct sunlight.
Incompatible Materials	Strong oxidizing agents, Ammonia, Reducing agents
Hazardous Decomposition Products	None under normal use
Hazardous Polymerization	Hazardous polymerization does not occur.
Hazardous Reactions .	None under normal processing.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Component Information

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Iodine	14 g/kg (Rat)		

Chronic Toxicity

Carcinogenicity	There are no known carcinogenic chemicals in this product
Sensitization	No information available.
Neurological Effects	No information available.
Mutagenic Effects	No information available.

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Reproductive Effects	Experiments have shown reproductive toxicity effects on laboratory animals.
Developmental Effects	No information available.
Target Organs	Respiratory system, Central nervous system (CNS), Eyes, Central Vascular System (CVS), Skin.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Very toxic to aquatic organisms. However, at the concentration present, this preparation is not expected to present significant adverse environmental effects.

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Potassium iodide		Onchorhynchus mykiss: LC50: 3200 mg/L/120h		
Iodine		Oncorhynchus mykiss: LC50 = 1,7 mg/l/96 h		EC50 = 0,2 mg/l/48 h

Persistence and Degradability	No information available
Bioaccumulative Potential	No information available.
Mobility	No information available.

Component	log Pow
Potassium iodide	0.04
Iodine	2.49

13. DISPOSAL CONSIDERATIONS

Waste from Residues / Unused Products	Dispose of in accordance with local regulations
Contaminated Packaging	Empty containers should be taken for local recycling, recovery or waste disposal

14. TRANSPORT INFORMATION

IMDG/IMO	Not regulated
ADR	Not regulated
IATA	Not regulated

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14. TRANSPORT INFORMATION

15. REGULATORY INFORMATION

The preparation is non-dangerous in accordance with Directive 1999/45/EC

Labelling

R -phrase(s)
none

S -phrase(s)
none

International Inventories

Component	EINECS	ELINCS	NLP	TSCA	DSL	NDSL	PICCS	ENCS	CHINA	AICS	KECL
Potassium iodide	231-659-4	-		X	X	-	X	X	X	X	KE-29149 X
Iodine	231-442-4	-		X	X	-	X	-	X	X	KE-21023 X

16. OTHER INFORMATION

Text of R phrases mentioned in Section 2-3

R50 - Very toxic to aquatic organisms

R20/21 - Harmful by inhalation and in contact with skin

Prepared By	Regulatory Affairs
Creation Date	11-May-2011
Revision Date	11-May-2011
Revision Summary	"***", and red text indicates revision
Restrictions on use	No information available.
Training advice	No information available.
Literary reference	No information available.

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Disclaimer

The information provided on 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.

End of Safety Data Sheet