

# SAFETY DATA SHEET

Creation Date 11-May-2001

Revision Date 13-May-2011

Revision Number 1

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

**Product Name** Gram Iodine (GALLON)  
**Cat No.** R40077  
**Synonyms** No information available.  
**Recommended Use** Laboratory chemicals

<b>Company</b>	Remel 12076 Santa Fe Drive Lenexa, KS 66215 United States Telephone: 1-800-255-6730 Fax:1-800-621-8251	<b>Entity / Business Name</b> Oxoid Ltd. Wade Road Basingstoke, Hants, UK RG24 8PW Telephone: +44 (0) 1256 841144
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**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

# SAFETY DATA SHEET

Gram Iodine (GALLON)

Revision Date 13-May-2011

## 4. FIRST AID MEASURES

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

<b>Flash Point</b>	Not applicable
<b>Method</b>	No information available.
<b>Autoignition Temperature</b>	No information available.

## 6. ACCIDENTAL RELEASE MEASURES

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

# SAFETY DATA SHEET

Gram Iodine (GALLON)

Revision Date 13-May-2011

## 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 <sup>3</sup>	TWA 0.1ppm; TWA 1mg/m <sup>3</sup>	VLCT: 0.1 ppm VLCT: 1 mg/m <sup>3</sup>	VLA-EC: 1 mg/m <sup>3</sup> VLA-EC: 0.1 ppm	TWA: 0.1 ppm TWA: 1.1 mg/m <sup>3</sup> skin absorber

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

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

# SAFETY DATA SHEET

Gram Iodine (GALLON)

Revision Date 13-May-2011

## 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.

# SAFETY DATA SHEET

Gram Iodine (GALLON)

Revision Date 13-May-2011

**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

# SAFETY DATA SHEET

Gram Iodine (GALLON)

Revision Date 13-May-2011

## 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-2001
Revision Date	13-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.

# SAFETY DATA SHEET

Gram Iodine (GALLON)

Revision Date 13-May-2011

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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**