

# Safety Data Sheet

According to the International Organization for Standardization, ISO 11014:2009

[www.kimleigh.com](http://www.kimleigh.com)

TEL: | +27 18 293 1028: | +27 18 285 1014



Reg. No. 1974/000531/07

PO Box 1097 | Potchefstroom | 2520 | South Africa

11 Jasper vd Westhuizen Str | Potchindustria | Potchefstroom | 2531

**Trade name:** Potassium iodate

**Product range:**

**ANIMADE**

## SECTION 1: Chemical Product and Company Identification

### 1.1 Product identifier:

**Product name** : Potassium iodate  
**Chemical formula** : KIO<sub>3</sub>  
**Chemical Family** : Iodine

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

#### Relevant identified uses

Animal feeds.

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

#### Supplier:

Kimleigh Chemicals SA (Pty) Ltd

11 Jasper van der Westhuizen Street, Potchindustria, Potchefstroom, North West Province, 2531, South Africa

Tel no: +27 (18) 293-1028

Fax no: +27 (18) 294-4079

Web : [www.kimleigh.com](http://www.kimleigh.com)

E-mail : [sheq@kimleigh.co.za](mailto:sheq@kimleigh.co.za)

### 1.4 Emergency telephone number:

Kimleigh Chemicals SA (Pty) Ltd: Tel: +27 (18) 293-1028

## SECTION 2: Hazards Identification

### 2.1. Classification of the substance:

Classification according to the Global Harmonized System (GHS):	Code:	Pictogram:	Signal word:
<b>Health hazards:</b> May intensify fire; oxidizer Causes skin irritation Causes serious eye irritation May cause respiratory irritation	H272 H315 H319 H335	 GHS03	Danger
<b>Environmental hazards:</b> N/A		 GHS07	Warning

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## Precautionary statements:

- P210 : Keep away from open flames/heat/sparks/hot surfaces – No smoking.  
P220 : Keep/store away from combustible materials.  
P221 : Take any precaution to avoid mixing with combustible materials.  
P261 : Avoid breathing mist/vapor/dust/fume/gas/spray.  
P264 : Wash face, hands, and any exposed skin thoroughly after handling.  
P271 : Use only outdoors or in a well-ventilated place.  
P280 : Wear protective gloves/protective clothing/eye protection/face protection.  
P302+P352 : IF ON SKIN: Rinse with plenty of water.  
P304+P340 : IF INHALED: Move victim to fresh air and keep at rest in a position comfortable for breathing.  
P305+P351+P338 : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P312 : Call a POISON CENTER if you feel unwell.  
P332+P313 : IF SKIN irritation occurs: Get medical advice/attention.  
P337+P313 : IF EYE irritation persists: Get medical advice/attention.  
P362 : Wash contaminated clothing before reuse.  
P403+P233 : Store in a well-ventilated place. Keep container tightly closed.  
P405 : Store locked up.  
P501 : Dispose of contents/container in accordance with local / regional / national / international regulations.

## 2.2 Potential health effects:

**Routes of entry:** Eye contact, inhalation, ingestion, absorbed through skin.

**Eyes:** May cause eye irritation and local inflammation.

**Skin:** May cause serious skin irritation.

**Inhalation:** May cause serious respiratory tract irritation.

**Ingestion:** May cause serious irritation and/or a burning sensation in the mouth, pharynx, esophagus and gastrointestinal tract.

## SECTION 3: Composition/Information on Ingredients

### 3.1 Substance:

- Substance name:** Potassium iodate  
**Appearance:** White to off-white powder  
**Active ingredients:** Assay as KIO<sub>3</sub>: 99.6% minimum

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## SECTION 4: First Aid Measures

### 4.1 Description of first aid measures

#### General information

Remove patient from area of exposure. Consult a physician. Show this safety data sheet to the doctor in attendance.

#### Following inhalation

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.

#### Following skin contact

In case of contact, immediately flush skin with soap and plenty of water for at least 15 minutes, while removing contaminated clothing and shoes. Wash clothing before reuse. Get medical attention if irritation persists.

#### Following eye contact

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention immediately.

#### Following ingestion

If swallowed, do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Rinse mouth with water. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.

## SECTION 5: Firefighting Measures

**Products of combustion:**

Oxides of potassium, iodides.

**Explosion hazards in presence of various substances:**

Risk of explosion of the product in the presence of static discharge: NO.

Risk of explosion of the product in presence of mechanical impact: NO.

**Firefighting media and instructions:**

Use alcohol-resistant foam, water spray, dry chemical or carbon dioxide. Use water to cool containers.

**Protective clothing (Fire):**

Wear NIOSH approved self-contained breathing apparatus or equivalent and full protective gear.

**Special remarks on fire hazards:**

Prevent fire-fighting water from entering surface water or groundwater.

**Special remarks on explosion hazards:**

Not explosion hazard but is a very strong oxidizing agent.

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## SECTION 6: Accidental Release Measures

**Personal Protection:**  
Hands: Nitrile rubber gloves.  
Eyes: Splash goggles.  
Body: Protective work clothing.  
Feet: Safety boots.

**Environmental Protection Measures:** Do not allow to enter sewerage system. Prevent contamination of soil, drains, and surface water.

**Small spill:** Wear appropriate respiratory and personal protection equipment. Isolate spill area and provide ventilation. Avoid dust formation. Avoid breathing vapours, mist or gas. Scoop or vacuum up spill using a vacuum system equipped with a high efficiency particulate air (HEPA) filtration system and place in a properly labeled closed container for further handling and disposal.

**Large spill:** Use appropriate tools and personal protective equipment. Stop leak if without risk. Do not touch spilled material. Prevent entry into sewers, basements and confined areas; dyke if needed. Wash the area clean with water and detergent, observing environmental requirements. Vacuum or sweep and place into suitable closabel, labelled container for disposal. Call for assistance on disposal.

## SECTION 7: Handling and Storage

### 7.1 Precautions for safe handling

#### Protective measures

##### Advice on safe handling

Handle in a well-ventilated area in an enclosed, controlled process. Avoid creating dust. Ensure adequate ventilation if dusts are created. Do not breathe dust or fumes. Avoid contact with eyes and skin and any form of ingestion. Wash thoroughly before eating or smoking. See section 8 for information on personal protection equipment. Do not discharge product or residues into rivers, dams, or canals.

##### Advice on safe storage

Store in a cool, dry area, away from food, foodstuffs, combustible materials and incompatible substances. Store material tightly sealed in properly labeled containers. Protect from moisture. Store away from oxidizers. Access to water and eye wash facility should be available. See section 10 for more information on incompatible materials.

## SECTION 8: Exposure Controls/Personal Protection

### 8.1 Control parameters

**Engineering controls:** Whenever possible the use of local exhaust ventilation or other engineering controls is the preferred method of controlling exposure to airborne dust and fume to meet

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established occupational exposure limits. Use good housekeeping and sanitation practices. Do not use tobacco or food in work area. Wash thoroughly before eating or smoking. Do not blow dust off clothing or skin with compressed air.

**Personal Protection:** Protective clothing should be selected specifically for the working place, depending on concentration and quantity of substance handled.

**Respiratory Protection:** Respirator. Be sure to use a MSHA/NIOSH approved respirator or equivalent. Wear appropriate respirator when ventilation is inadequate.

**Eye Protection:** Safety glasses with side shields.

**Hands:** Impermeable gloves, nitrile rubber gloves.

**Body:** Body covering clothing/full suit.

**Hygiene measures:** Handle in accordance with good industrial hygiene and safety practices. Remove and wash contaminated clothing. Wash hands after use and before eating or smoking. Wash promptly if skin becomes contaminated or wet.

## SECTION 9: Physical and Chemical Properties

### 9.1 Information on basic physical and chemical properties

*Appearance:*

**Physical state:** White to off-white powder

**Colour:** White

**Odour:** Odourless

### 9.2 Other information:

**pH (50 g/l H<sub>2</sub>O solution):** ± 6

**Boiling point:** > 100°C

**Freezing point:** < 0°C

**Vapour density:** Not available

**Flammability/explosive limits:** Not available

**Relative density (20°C):** 3.93 g/cm<sup>3</sup>

**Solubility:** Soluble in water.

## SECTION 10: Stability and Reactivity

### 10.1 Reactivity and stability

The product is stable under recommended conditions of storage and use.

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## 10.2 Conditions of Instability

High temperatures. Store away from strong reducing agents.

## 10.3 Hazardous decomposition products

Oxides of potassium, iodine.

## 10.4 Incompatibility with various substances

Strong reducing agents, organic materials.

## 10.5 Hazardous Polymerization

Has not been reported.

## SECTION 11: Toxicological Information

### 11.1 Information on toxicological effects:

	Effect dose / concentration	Value(s)	Species
Acute oral toxicity (Calculated)	LD50	531 mg/kg	Rat

### 11.2 Other information:

#### Acute and chronic effects on humans:

Serious eye irritant.  
Serious skin irritant. Skin inflammation is characterised by itching, scaling, reddening, or occasional blistering.  
Harmful if inhaled, may cause serious irritation to respiratory tract. Symptoms can include irritation of nasal passages, sore throat, shortness of breath and coughing.  
Harmful if swallowed. May cause serious irritation and/or a burning sensation in the mouth, pharynx, oesophagus, and gastrointestinal tract when swallowed.

#### Carcinogenicity:

Not available.

#### Toxicity to reproductive system:

Tests on laboratory animals for reproductive effects are cited in Registry of Toxic Effects on Chemical Substances (RTECS).

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## SECTION 12: Ecological Information

**Ecotoxicity:** Not available.

**Phytotoxicity:** Not available.




**Mobility:** Do not allow to enter water or soil.

## SECTION 13: Disposal Considerations

### 13.1 Treatment:

Consultation with a permitted waste disposal site (TSD) should be accomplished. Always contact a permitted waste disposal site (TDS) to assure compliance with all current, local, national, and governmental regulations.

## SECTION 14: Transport Information

	Land transport (ADR/RID)	Inland waterway transport (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1 UN No.	1479	1479	1479	1479
14.2 UN Proper shipping name	Oxidizing solid, N.O.S. (Potassium iodate)	Oxidizing solid, N.O.S. (Potassium iodate)	Oxidizing solid, N.O.S. (Potassium iodate)	Oxidizing solid, N.O.S. (Potassium iodate)
14.3 Transport hazard class(es)	Class 5.1	Class 5.1	Class 5.1	Class 5.1
Hazard label(s)	  GHS03 GHS07			
14.4 Packing group	II	II	II	II
14.5 Transport label				

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





















## Section 15: Regulatory Information

**Republic of South Africa Regulations:** National Water Act 36 of 1998. Occupational Health and Safety Act, 1993. Environmental Conservation Act 73 of 1989. Hazardous Substances Act, 1973. Provincial Ordinances and Local By-laws.

## SECTION 16: Other Information

### 16.1 Hazardous Material Identification System

### HAZARDOUS MATERIALS IDENTIFICATION SYSTEM

HAZARD INDEX		PERSONAL PROTECTION INDEX	
<b>4</b>	<b>Severe Hazard</b>	<b>A</b>	
<b>3</b>	<b>Serious Hazard</b>	<b>B</b>	
<b>2</b>	<b>Moderate Hazard</b>	<b>C</b>	
<b>1</b>	<b>Slight Hazard</b>	<b>D</b>	
<b>0</b>	<b>Minimal Hazard</b>	<b>E</b>	
* An asterisk or other designation corresponds to additional information on a data sheet or separate chronic effects notification		<b>F</b>	
<b>HEALTH</b>		<b>G</b>	
0	2	<b>H</b>	
<b>FLAMMABILITY</b>		<b>I</b>	
0	0	<b>J</b>	
<b>PHYSICAL HAZARD</b>		<b>K</b>	
0	0	<b>X</b>	Consult your supervisor or S.O.P. for "Special" handling directions
<b>Personal Protection</b>		<b>A</b>	
K		<b>n</b>	
		<b>o</b>	
		<b>p</b>	
		<b>q</b>	
		<b>r</b>	
		<b>s</b>	
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		<b>w</b>	
		<b>y</b>	
		<b>z</b>	

### 16.2 Legislation related to safety data sheets:

This safety data sheet has been designed in accordance with the International Organization for Standardization

### 16.4 Disclaimer:

KIMLEIGH CHEMICALS SA (Pty) Ltd provides the information contained herein in good faith but does not assume any liability whatsoever for its accuracy or completeness. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.