

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended

**Honeywell**  
**Fluka™**

## Potassium iodate

30314-250G

Version 2.0

Revision Date 14.06.2023

Supersedes 1

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

#### 1.1. Product identifier

Product name : Potassium iodate  
SDS-number : 000000021013  
Type of product : Substance  
Remarks : SDS according to Art. 31 of Regulation (EC) 1907/2006.  
Chemical name : Potassium iodate  
CAS-No. : 7758-05-6  
REACH Registration Number : no data available

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

Use of the Substance/Mixture : Laboratory chemicals  
Uses advised against : none

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

Company	: Honeywell International Inc. 115 Tabor Road 07950-2546 Morris Plains USA	Honeywell International, Inc. 115 Tabor Road Morris Plains, NJ 07950-2546 USA
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Telephone :  
For further information, please contact: : [SafetyDataSheet@Honeywell.com](mailto:SafetyDataSheet@Honeywell.com)

#### 1.4. Emergency telephone number

Emergency telephone number : +1-703-527-3887 (ChemTrec-Transport)  
+1-303-389-1414 (Medical)  
Country based Poison : see chapter 15.1

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Control Center

### SECTION 2: Hazards identification

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

##### REGULATION (EC) No 1272/2008

Oxidizing solids Category 2  
H272 May intensify fire; oxidizer.

Acute toxicity Category 4 - Oral  
H302 Harmful if swallowed.  
Eye irritation Category 2  
H319 Causes serious eye irritation.

#### 2.2. Label elements

##### REGULATION (EC) No 1272/2008

Hazard pictograms



Signal word : **Danger**

Hazard statements : H272 May intensify fire; oxidizer.  
H302 Harmful if swallowed.  
H319 Causes serious eye irritation.

Precautionary statements : P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P220 Keep away from clothing and other combustible materials.  
P264 Wash skin thoroughly after handling.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.  
P337 + P313 If eye irritation persists: Get medical advice/ attention.  
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

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### 2.3. Other hazards

This substance/mixture contains components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB). The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher. Protect from contamination.

## SECTION 3: Composition/information on ingredients

### 3.1. Substance

Chemical name	CAS-No. Index-No. REACH Registration Number EC-No.	Classification 1272/2008	Concentration	Remarks
Potassium iodate	7758-05-6 231-831-9	Ox. Sol. 2; H272 Acute Tox. 4; H302 Eye Irrit. 2; H319	100 %	

### 3.2. Mixture

Not applicable

Occupational Exposure Limit(s), if available, are listed in Section 8.

For the full text of the H-Statements mentioned in this Section, see Section 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### *General advice:*

First aider needs to protect himself. Move out of dangerous area. Take off all contaminated clothing immediately.

#### *Inhalation:*

If breathed in, move person into fresh air. If symptoms persist, call a physician.

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### *Skin contact:*

After contact with skin, wash immediately with plenty of water. If symptoms persist, call a physician.

### *Eye contact:*

Rinse thoroughly with plenty of water, also under the eyelids. Protect unharmed eye. If eye irritation persists, consult a specialist.

### *Ingestion:*

When swallowed, allow water to be drunk. Call a physician immediately.

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

No data available

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

Treat symptomatically.

See Section 11 for more detailed information on health effects and symptoms.

## **SECTION 5: Firefighting measures**

### **5.1. Extinguishing media**

#### *Suitable extinguishing media:*

Water spray

Foam

Carbon dioxide (CO<sub>2</sub>)

Dry powder

#### *Extinguishing media which shall not be used for safety reasons:*

High volume water jet

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

In fires, the product supports combustion.

In case of fire hazardous decomposition products may be produced such as:

Hydrogen iodide (HI)

Potassium oxide

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### 5.3. Advice for firefighters

In the event of fire, wear self-contained breathing apparatus.  
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

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## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

Provide adequate ventilation. Wear personal protective equipment. Unprotected persons must be kept away. Avoid dust formation.

### 6.2. Environmental precautions

Prevent further leakage or spillage if safe to do so. Should not be released into the environment.

### 6.3. Methods and materials for containment and cleaning up

Use mechanical handling equipment.  
Pick for disposal in tightly closed containers

### 6.4. Reference to other sections

For personal protection see section 8.

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## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

#### *Advice on safe handling:*

Exhaust ventilation at the object is necessary. Wear personal protective equipment. Avoid inhalation, ingestion and contact with skin and eyes. Avoid creating dust.

#### *Advice on protection against fire and explosion:*

Normal measures for preventive fire protection. Keep away from combustible material.

#### *Hygiene measures:*

Take off all contaminated clothing immediately. Wash hands before breaks and at the end of workday. When using do not eat or drink.

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

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### Further information on storage conditions:

Store in original container. Keep containers tightly closed in a cool, well-ventilated place.

### Advice on common storage:

Do not store with combustible materials. Keep away from oxidizing agents and strongly acid or alkaline materials.

### 7.3. Specific end use(s)

no additional data available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Components with workplace control parameters

Contains no substances with occupational exposure limit values.

#### DNEL/ PNEC-Values

Component	End-use/impact	Exposure duration	Value	Exposure routes	Remarks
Potassium iodate	Workers / Long-term systemic effects		8,81385 mg/m <sup>3</sup>	Inhalation	
Potassium iodate	Workers /		5mg/kg bw/d	Skin contact	
Potassium iodate	Consumers /		1,665 mg/m <sup>3</sup>	Inhalation	
Potassium iodate	Consumers /		2,5mg/kg bw/d	Skin contact	
Potassium iodate	Consumers /		5mg/kg bw/d	Ingestion	

Component	Environmental compartment / Value	Remarks
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Potassium iodate	Fresh water: 1 mg/l	Assessment factor: 100
Potassium iodate	Marine water: 0,1 mg/l	Assessment factor: 1000
Potassium iodate	Sewage treatment plant: 27,8 mg/l	Assessment factor: 10
Potassium iodate	Fresh water sediment: 25,6055 mg/kg dw	
Potassium iodate	Marine sediment: 25,6055 mg/kg dw	
Potassium iodate	Soil: 5,867 mg/kg dw	

### 8.2. Exposure controls

#### Occupational exposure controls

The Personal Protective Equipment must be in accordance with EN standards:respirator EN 136, 140, 149; safety glasses EN 166; protective suit: EN 340, 463, 468, 943-1, 943-2; gloves EN 374, 511; safety shoes EN-ISO 20345.

Do not breathe dust.

#### Personal protective equipment

##### *Respiratory protection:*

In the case of dust or aerosol formation use respirator with an approved filter.

##### *Hand protection:*

Glove material: Natural Latex

Break through time: > 480 min

Glove thickness: 0,6 mm

Lapren®706

Gloves must be inspected prior to use.

Replace when worn.

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Remarks: Supplementary note: The specifications are based on information and tests from similar substances by analogy.  
Due to varying conditions ( e.g.temperature or other strains) it must be considered that the usage of a chemical protective glove in practice may be much shorter than the permeation time determined in accordance with EN 374.  
Since actual conditions of practical use often deviate from standardised conditions according EN 374 the glove manufacturer recommends to use the chemical protective glove in practice not longer than 50% of the recommended permeation time.  
Manufacturer's directions for use should be observed because of great diversity of types .  
Suitable gloves tested according EN 374 are supplied e.g. from KCL GmbH, D-36124 Eichenzell, Vertrieb@kcl.de

*Eye protection:*  
Safety goggles

*Skin and body protection:*  
Protective suit

### Environmental exposure controls

Handle in accordance with local environmental regulations and good industrial practices.

## SECTION 9: Physical and chemical properties

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

Physical state	: solid
Colour	: colourless
Odour	: odourless
molecular weight	: 214 g/mol
Melting point (decomposition)	: 560 °C
Boiling point/boiling range	: No data available
Flammability	: The product is not flammable.
Upper explosion limit	: Not applicable



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Lower explosion limit	:	Not applicable
Flash point	:	Not applicable
Auto-ignition temperature	:	Not applicable
Decomposition temperature	:	560 °C Decomposition temperature
pH	:	5 - 8 at 20 °C
Viscosity, kinematic	:	No data available
Water solubility	:	70 g/l at 25 °C
Partition coefficient: n-octanol/water	:	No data available
Vapour pressure	:	No data available
Density	:	ca. 3,93 g/cm <sup>3</sup> at 20 °C
Bulk density	:	ca. 2.400 kg/m <sup>3</sup>
Relative vapour density	:	No data available

### 9.2 Other Information

Oxidizing properties	:	The substance or mixture is classified as oxidizing with the category 2.
Evaporation rate	:	No data available
Viscosity, dynamic	:	No data available

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### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

Stable under normal conditions.

#### 10.2. Chemical stability

560 °C

Decomposition temperature

#### 10.3. Possibility of hazardous reactions

Mixtures of inflammable substances are easily combustible and burn vigorously even under exclusion of air.

#### 10.4. Conditions to avoid

Avoid contact with combustible material (paper, wool, oil).

Protect from heat/overheating.

#### 10.5. Incompatible materials

Combustible material

Organic materials

Reducing agents

Powdered metals

Metal hydrides

Cyanides

Isocyanates

Sulphur

Sulphides

Phosphorus

#### 10.6. Hazardous decomposition products

In case of fire hazardous decomposition products may be produced such as:

Hydrogen iodide (HI)

Potassium oxide

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### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

*Acute oral toxicity:*

LDLo

Species: Mouse

Value: 513 mg/kg

*Acute dermal toxicity:*

No data available

*Acute inhalation toxicity:*

No data available

*Skin irritation:*

No data available

*Eye irritation:*

Result: Mild eye irritation

*Respiratory or skin sensitisation:*

No data available

*Carcinogenicity:*

Note: No data available

*Germ cell mutagenicity:*

Note: Not classified due to data which are conclusive although insufficient for classification.

*Reproductive toxicity:*

Remarks: Not classified due to data which are conclusive although insufficient for classification.

*Aspiration hazard:*

No data available

#### 11.2. Information on other hazards

Endocrine disrupting properties

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

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*Other information:*

No data available

### SECTION 12: Ecological information

#### 12.1. Toxicity

*Toxicity to fish:*

Not classified due to data which are conclusive although insufficient for classification.

*Toxicity to aquatic plants:*

Not classified due to data which are conclusive although insufficient for classification.

*Toxicity to aquatic invertebrates:*

Not classified due to data which are conclusive although insufficient for classification.

#### 12.2. Persistence and degradability

*Biodegradability:*

The methods for determining biodegradability are not applicable to inorganic substances.

#### 12.3. Bioaccumulative potential

No data available

#### 12.4. Mobility in soil

No data available

#### 12.5. Results of PBT and vPvB assessment

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.

#### 12.6. Endocrine disrupting properties

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

#### 12.7. Other adverse effects

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No data available

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

*Product:*

Dispose according to legal requirements.

*Packaging:*

Legal requirements are to be considered in regard of reuse or disposal of used packaging materials

*Further information:*

Provisions relating to waste:

EC Directive 2006/12/EC; 2008/98/EEC

Regulation No. 1013/2006

For personal protection see section 8.

### SECTION 14: Transport information

#### 14.1 UN number

ADR/RID:1479

IMDG:1479

IATA:1479

#### 14.2 UN proper shipping name

ADR/RID:OXIDIZING SOLID, N.O.S.(POTASSIUM IODATE)

IMDG:OXIDIZING SOLID, N.O.S.(POTASSIUM IODATE)

IATA:Oxidizing solid, n.o.s.(Potassium iodate)

#### 14.3 Transport hazard class(es)

ADR/RID: 5.1

IMDG: 5.1

IATA: 5.1

#### 14.4 Packaging group

ADR/RID: II

IMDG: II

IATA: II

#### 14.5 Environmental hazards

ADR/RID:no

Marine pollutant: no

#### 14.6 Special precautions for user

No data available

#### 14.7 Maritime transport in bulk according to IMO instruments

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No data available

### SECTION 15: Regulatory information

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

Basis	Value	Remarks
Substances of very high concern (SVHC)		This product does not contain substances of very high concern according to Regulation (EC) No Article 57 above the respective regulatory 1907/2006 (REACH), concentration limit of $\geq 0.1\%$ (w/w).
Directive 2012/18/EC SEVESO III Listed in Regulation : P8: Oxidizing liquids and solids	<b>Quantity:</b> 50.000 kg <b>Quantity:</b> 200.000 kg	

#### Poison Control Center

Country	Phone Number
Austria	+4314064343
Belgium	070 245245
Bulgaria	(+359)29154233
Croatia	(+3851)23-48-342
Cyprus	+357 2240 5611
Czech Republic	+420224919293; +420224915402
Denmark	82121212
Estonia	16662; (+372)6269390
Finland	9471977
France	+33(0)145425959
Greece	+30 210 779 3777
Hungary	(+36-80)201-199
Iceland	5432222

Country	Phone Number
Liechtenstein	+41 442515151
Lithuania	+370532362052
Luxembourg	070245245; (+352)80002-5500
Malta	+356 2395 2000
Netherlands	030-2748888
Norway	22591300
Poland	+48 42 25 38 400
Portugal	800250250
Romania	+40 21 318 3606
Slovakia (NTIC)	+421 2 54 774 166
Slovenia	+386 1 400 6051
Spain	+34915620420
Sweden	112 (begär

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			Giftinformation);+46104566786
Ireland	+353(1)8092166	Switzerland	145
Italy	0382 24444	United Kingdom	(+44) 844 892 0111
Germany	Berlin : 030/19240		
	Bonn : 0228/19240		
	Erfurt : 0361/730730		
	Freiburg : 0761/19240		
	Göttingen : 0551/19240		
	Homburg : 06841/19240		
	Mainz : 06131/19240		
	Munich : 089/19240		
Latvia	+37167042473		

### Other inventory information

US. Toxic Substances Control Act  
On TSCA Inventory

Australia. Inventory of Industrial Chemicals (AIIC), as amended  
On the inventory, or in compliance with the inventory

Canada. Canadian Environmental Protection Act (CEPA). Domestic Substances List (DSL)  
All components of this product are on the Canadian DSL

Japan. Kashin-Hou Law List  
On the inventory, or in compliance with the inventory

Korea. Existing Chemicals Inventory (KECI)  
On the inventory, or in compliance with the inventory

Philippines. Inventory of Chemicals and Chemical Substances (PICCS)  
On the inventory, or in compliance with the inventory

China. Inventory of Existing Chemical Substances (IECSC)  
On the inventory, or in compliance with the inventory

New Zealand. Inventory of Chemicals (NZIoC), as published by ERMA New Zealand

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On the inventory, or in compliance with the inventory

Taiwan Chemical Substance Inventory (TCSI)

On the inventory, or in compliance with the inventory

### 15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

## SECTION 16: Other information

### Text of H-statements referred to under heading 3

Potassium iodate : H272 May intensify fire; oxidizer.  
H302 Harmful if swallowed.  
H319 Causes serious eye irritation.

### Further information

All directives and regulations refer to amended versions.

Vertical lines in the left hand margin indicate a relevant amendment from the previous version.

Abbreviations:

EC European Community

CAS Chemical Abstracts Service

DNEL Derived no effect level

PNEC Predicted no effect level

vPvB Very persistent and very bioaccumulative substance

PBT Persistent, bioaccumulative und toxic substance

The information provided in 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 guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered 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 materials or in any process, unless specified in the text. Final determination of suitability of any material is the sole responsibility of the user.

This information should not constitute a guarantee for any specific product properties.



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