

Potassium iodide**03124-5KG**

Version 1.4

Revision Date 01/13/2020

Print Date 05/29/2023

SECTION 1. IDENTIFICATION

Product name : Potassium iodide

Number : 000000020257

Product Use Description : Laboratory chemicals

Manufacturer or supplier's details : Honeywell Specialty Chemicals Seelze GmbH
Wunstorfer Straße 40
Seelze, 30926

For more information call : 1-800-368-0050
+1-231-726-3171(Monday-Friday, 9:00am-5:00pm)

In case of emergency call : **Medical: 1-800-498-5701 or +1-303-389-1414**
: **Transportation (CHEMTREC): 1-800-424-9300 or**
: **+1-703-527-3887**
:
: (24 hours/day, 7 days/week)

SECTION 2. HAZARDS IDENTIFICATION**Emergency Overview**

Form : crystalline

Color : colourless

Odor : odourless

Classification of the substance or mixture

Classification of the substance or mixture : Specific target organ toxicity - repeated exposure, Category 1,
Oral, Thyroid

GHS Label elements, including precautionary statements

Potassium iodide**03124-5KG**

Version 1.4

Revision Date 01/13/2020

Print Date 05/29/2023

Symbol(s)

:



Signal word

: Danger

Hazard statements

: Causes damage to organs through prolonged or repeated exposure if swallowed.

Precautionary statements

: **Prevention:**

Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
Wash skin thoroughly after handling.
Do not eat, drink or smoke when using this product.

Response:

Get medical advice/ attention if you feel unwell.

Disposal:

Dispose of contents/ container to an approved waste disposal plant.

Carcinogenicity

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP, IARC, or OSHA.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Formula

: KI

Chemical nature

: Substance

Chemical name	CAS-No.	Concentration
Potassium iodide	7681-11-0	100.00 %

Potassium iodide**03124-5KG**

Version 1.4

Revision Date 01/13/2020

Print Date 05/29/2023

SECTION 4. FIRST AID MEASURES

- Inhalation : Remove to fresh air. If breathing is difficult, give oxygen. Use oxygen as required, provided a qualified operator is present. Call a physician.
- Skin contact : Wash off immediately with plenty of water for at least 15 minutes. Call a physician if irritation develops or persists.
- Eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Call a physician if irritation develops or persists.
- Ingestion : Immediately give large quantities of water to drink. Never give anything by mouth to an unconscious person. Call a physician immediately.

Notes to physician

- Most important symptoms/effects, acute and delayed : No information available.
- Indication of immediate medical attention and special treatment needed, if necessary : Treat symptomatically.

SECTION 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Water spray
Foam
Carbon dioxide (CO₂)
Dry chemical
- Specific hazards during firefighting : In case of fire hazardous decomposition products may be produced such as:
Hydrogen iodide (HI)
Iodine
Potassium oxide
- Special protective equipment : Wear self-contained breathing apparatus and protective suit.

Potassium iodide**03124-5KG**

Version 1.4

Revision Date 01/13/2020

Print Date 05/29/2023

for firefighters

Further information : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Wear personal protective equipment.
Evacuate personnel to safe areas.
Ensure adequate ventilation.
Avoid dust formation.
Avoid breathing dust.
Avoid contact with skin and eyes.

Environmental precautions : Prevent further leakage or spillage if safe to do so.
Should not be released into the environment.
Do not flush into surface water or sanitary sewer system.
Do not allow run-off from fire fighting to enter drains or water courses.

Methods and materials for containment and cleaning up : Use mechanical handling equipment.
Sweep up and shovel into suitable containers for disposal.

SECTION 7. HANDLING AND STORAGE**Handling**

Precautions for safe handling : Wear personal protective equipment.
Use only in well-ventilated areas.

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

Storage

Conditions for safe storage, including any incompatibilities : Store in original container.
Keep container tightly closed in a dry and well-ventilated place.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Potassium iodide

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Version 1.4

Revision Date 01/13/2020

Print Date 05/29/2023

- Protective measures** : Ensure that eyewash stations and safety showers are close to the workstation location.
Legal requirements are to be considered in regard of the selection, use and care of personal protective equipment.
Avoid dust formation.
- Engineering measures** : Use with local exhaust ventilation.
- Eye protection** : Safety glasses with side-shields
- Hand protection** : Latex gloves
Gloves must be inspected prior to use.
Replace when worn.
- Skin and body protection** : Protective suit
- Respiratory protection** : In case of insufficient ventilation, wear suitable respiratory equipment.
- Hygiene measures** : Keep working clothes separately.
Separate rooms are required for washing, showering and changing clothes.
Take off all contaminated clothing immediately.
Remove and wash contaminated clothing before re-use.
Wash hands before breaks and at the end of workday.
When using do not eat or drink.

Exposure Guidelines

Components	CAS-No.	Value	Control parameters	Update	Basis
Potassium iodide	7681-11-0	TWA : Time weighted average	(0.01 ppm)	2008	ACGIH:US. ACGIH Threshold Limit Values, as amended
Further information	:	Form of exposure : Inhalable fraction and vapor.			
Potassium iodide	7681-11-0	:	Included in the regulation but with no data values. See regulation for further details.	03 2019	ACGIHLIS_P:US. ACGIH Notice of Intended Changes (NIC) to Threshold Limit Values, as amended

Potassium iodide**03124-5KG**

Version 1.4

Revision Date 01/13/2020

Print Date 05/29/2023

Further information	:	Expressed as : as Iodine (I)
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SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	:	crystalline
Color	:	colourless
Odor	:	odourless
Odor threshold	:	Note: no data available
pH	:	6.0 - 9.0 at , 20 °C
Melting point/range	:	681 °C
Boiling point/boiling range	:	1,323 °C at 1,013 hPa
Flash point	:	Note: Not applicable
Evaporation rate	:	Note: no data available
Lower explosion limit	:	Note: Not applicable
Upper explosion limit	:	Note: Not applicable
Vapor pressure	:	Note: no data available
Vapor density	:	Note: no data available
Density	:	ca. 3.12 g/cm ³ at 20 °C

Potassium iodide**03124-5KG**

Version 1.4

Revision Date 01/13/2020

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Water solubility	: 1,429 g/l at 25 °C
Partition coefficient: n-octanol/water	: Note: Not applicable
Ignition temperature	: Note: Not applicable
Auto-ignition temperature	: > 1,300 °C
Decomposition temperature	: Note: No decomposition if used as directed.
Viscosity, dynamic	: Note: no data available
Viscosity, kinematic	: Note: no data available
Oxidizing properties	: The substance or mixture is not classified as oxidizing.
Molecular weight	: 166 g/mol
Bulk density	: ca. 1,700 kg/m ³

SECTION 10. STABILITY AND REACTIVITY

Reactivity	: Not classified as a reactivity hazard.
Chemical stability	: Stable under recommended storage conditions.
Possibility of hazardous reactions	: Hazardous polymerisation does not occur.
Conditions to avoid	: Exposure to air. Exposure to moisture Exposure to light.
Incompatible materials	: Strong acids Oxidizing agents Nitrates

Potassium iodide**03124-5KG**

Version 1.4

Revision Date 01/13/2020

Print Date 05/29/2023

Hazardous decomposition products : In case of fire hazardous decomposition products may be produced such as:
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Iodine
Potassium oxide

SECTION 11. TOXICOLOGICAL INFORMATION

Acute oral toxicity : LD50: 3,118 mg/kg
Species: Rat
Method: OECD Test Guideline 401

Acute inhalation toxicity : Note: no data available

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

Skin irritation : Note: no data available

Eye irritation : Note: no data available

Sensitisation : Note: no data available

Genotoxicity in vitro : Test Method: In vitro mammalian cell gene mutation test
Cell type: mouse lymphoma cells
Metabolic activation: without metabolic activation
Result: negative
Method: OECD Test Guideline 476

Further information : Note: Iodide may cause effects on the thyroid. Chronic overexposure may cause iodism (symptoms may include

Potassium iodide**03124-5KG**

Version 1.4

Revision Date 01/13/2020

Print Date 05/29/2023

salivation, sneezing, headache, fever, effects on the respiratory tract).

SECTION 12. ECOLOGICAL INFORMATION**Ecotoxicity effects**

Toxicity to fish : static test
LC50: 3,780 mg/l
Exposure time: 96 h
Species: Oncorhynchus mykiss (rainbow trout)
Test substance: REACH dossier "read-across"
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : static test
EC50: 7.5 mg/l
Exposure time: 48 h
Species: Daphnia magna (Water flea)
Method: OECD Test Guideline 202

Toxicity to algae : Note: no data available

Elimination information (persistence and degradability)

Bioaccumulation : Note: Does not bioaccumulate.

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

Further information on ecology**SECTION 13. DISPOSAL CONSIDERATIONS**

Disposal methods : Observe all Federal, State, and Local Environmental regulations.

Potassium iodide**03124-5KG**

Version 1.4

Revision Date 01/13/2020

Print Date 05/29/2023

SECTION 14. TRANSPORT INFORMATION**DOT** Not dangerous goods**TDG** Not dangerous goods**IATA** Not dangerous goods**IMDG** Not dangerous goods**SECTION 15. REGULATORY INFORMATION****Inventories**US. Toxic Substances : On TSCA Inventory
Control ActAustralia. Industrial : On the inventory, or in compliance with the inventory
Chemical (Notification and
Assessment) ActCanada. Canadian : All components of this product are on the Canadian DSL
Environmental Protection
Act (CEPA). Domestic
Substances List (DSL)

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

Korea. Existing Chemicals : On the inventory, or in compliance with the inventory
Inventory (KECI)Philippines. The Toxic : On the inventory, or in compliance with the inventory
Substances and Hazardous
and Nuclear Waste Control
ActChina. Inventory of Existing : On the inventory, or in compliance with the inventory
Chemical Substances
(IECSC)New Zealand. Inventory of : On the inventory, or in compliance with the inventory
Chemicals (NZIoC), as

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National regulatory information

- SARA 302 Components** : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
- SARA 313 Components** : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.
- SARA 311/312 Hazards** : Chronic Health Hazard
- California Prop. 65** : This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

SECTION 16. OTHER INFORMATION

	HMIS III	NFPA
Health hazard	: 2*	2
Flammability	: 0	0
Physical Hazard	: 0	
Instability	:	0

* - Chronic health hazard

Hazard rating and rating systems (e.g. HMIS® III, NFPA): This information is intended solely for the use of individuals trained in the particular system.

Further information

Potassium iodide**03124-5KG**

Version 1.4

Revision Date 01/13/2020

Print Date 05/29/2023

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.

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

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