

Potassium iodide concentrate**38110-1EA**

Version 2.1

Revision Date 01/13/2020

Print Date 05/15/2023

SECTION 1. IDENTIFICATION

Product name : Potassium iodide concentrate

Number : 000000022033

Product Use Description : Laboratory chemicals

Manufacturer or supplier's details : Honeywell International Inc.
1953 South Harvey Street
Muskegon, MI 49442

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 : liquid

Color : colourless

Odor : no data available

Classification of the substance or mixture

Classification of the substance or mixture : **Specific target organ toxicity - repeated exposure, Category 2, Oral, Thyroid**

GHS Label elements, including precautionary statements

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Symbol(s)

:



Signal word

: **Warning**

Hazard statements

: **May cause damage to organs (Thyroid) through prolonged or repeated exposure.**

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

Chemical nature

: Mixture

Chemical name	CAS-No.	Concentration
Water	7732-18-5	>=90.00 - <=100.00 %
Potassium iodide	7681-11-0	>=1.00 - <5.00 %

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SECTION 4. FIRST AID MEASURES

- General advice : First aider needs to protect himself. Move out of dangerous area. Take off all contaminated clothing immediately. Show this safety data sheet to the doctor in attendance.
- 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. Take off contaminated clothing and shoes immediately. Wash contaminated clothing before re-use. 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 powder
- Specific hazards during : In case of fire hazardous decomposition products may be

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firefighting	produced such as: Hydrogen iodide (HI) Iodine Potassium oxide
Special protective equipment for firefighters	: Wear self-contained breathing apparatus and protective suit.
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 contact with skin and eyes.
Environmental precautions	: Prevent further leakage or spillage if safe to do so. Retain and dispose of contaminated wash water. Do not flush into surface water or sanitary sewer system.
Methods and materials for containment and cleaning up	: Soak up with inert absorbent material. Sweep up and shovel into suitable containers for disposal. Dispose of in accordance with local regulations.

SECTION 7. HANDLING AND STORAGE**Handling**

Precautions for safe handling	: Wear personal protective equipment. Use only in well-ventilated areas. Avoid inhalation, ingestion and contact with skin and eyes.
Advice on protection against fire and explosion	: Normal measures for preventive fire protection.

Storage

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

place.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- 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 contact with skin, eyes and clothing.
- Engineering measures : Use with local exhaust ventilation.
- Eye protection : Safety goggles
- 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 : When using, do not eat, drink or smoke.
Wash hands before breaks and at the end of workday.
Keep working clothes separately.
Remove and wash contaminated clothing before re-use.

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.			

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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
Further information	:	Expressed as : as Iodine (I)			

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	:	liquid
Color	:	colourless
Odor	:	no data available
Odor threshold	:	Note: no data available
pH	:	Note: no data available
Melting point/freezing point	:	Note: no data available
Boiling point/boiling range	:	Note: no data available
Flash point	:	Note: Not applicable
Evaporation rate	:	Note: no data available
Flammability	:	no data available
Lower explosion limit	:	Note: no data available
Upper explosion limit	:	Note: no data available

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Vapor pressure	: Note: no data available
Vapor density	: Note: no data available
Density	: Note: no data available
Water solubility	: Note: no data available
Partition coefficient: n-octanol/water	: Note: no data available
Ignition temperature	: Note: no data available
Decomposition temperature	: Note: No decomposition if stored and applied as directed.
Viscosity, dynamic	: Note: no data available
Viscosity, kinematic	: Note: no data available
Oxidizing properties	: Note: no data available
Molecular weight	: 166 g/mol

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	: Protect from heat/overheating.
Incompatible materials	: Strong acids

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	Oxidizing agents Nitrates
Hazardous decomposition products	: In case of fire hazardous decomposition products may be produced such as: Hydrogen iodide (HI) Iodine Potassium oxide

SECTION 11. TOXICOLOGICAL INFORMATION

Acute oral toxicity	: Note: no data available
	: Acute toxicity estimate: > 5,000 mg/kg Method: Calculation method
Acute inhalation toxicity	: Note: no data available
Acute dermal toxicity	: Note: no data available
Skin irritation	: Note: no data available
Eye irritation	: Note: no data available
Sensitisation	: Note: no data available

SECTION 12. ECOLOGICAL INFORMATION**Ecotoxicity effects**

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Toxicity to fish : LC50: 2,190 mg/l
Exposure time: 96 h
Species: Oncorhynchus mykiss (rainbow trout)

Toxicity to daphnia and other aquatic invertebrates : Note: no data available

Toxicity to algae : Note: no data available

Toxicity to bacteria : 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**Ecotoxicology Assessment**

Results of PBT assessment
Not applicable

SECTION 13. DISPOSAL CONSIDERATIONS

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

SECTION 14. TRANSPORT INFORMATION

DOT Not dangerous goods

TDG Not dangerous goods

IATA Not dangerous goods

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IMDG Not dangerous goods**SECTION 15. REGULATORY INFORMATION****Inventories**

1907/2006 (EU)	: On the inventory, or in compliance with the inventory
US. Toxic Substances Control Act	: On TSCA Inventory
Australia. Industrial Chemical (Notification and Assessment) Act	: 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
Japan. Industrial Safety & Health Law (ISHL) List	: Not in compliance with the inventory
Korea. Existing Chemicals Inventory (KECI)	: Water 7732-18-5 : On the inventory, or in compliance with the inventory
Philippines. The Toxic Substances and Hazardous and Nuclear Waste Control Act	: 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	: On the inventory, or in compliance with the inventory

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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
- CERCLA Reportable Quantity** :
- 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.

New Jersey RTK : Water 7732-18-5
: Potassium iodide 7681-11-0

Pennsylvania RTK : Water 7732-18-5

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.

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Further information

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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Prepared by Honeywell Performance Materials and Technologies Product Stewardship Group