

Sodium iodide**383112-12KG**

Version 2.0

Issuing date 09/01/2016

Revision Date 05/14/2020

Print Date 08/05/2021

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**Product information**

Trade name : Sodium iodide

Number : 000000020700

Recommended use of the chemical and restrictions on use : Laboratory chemicals

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

For further information, please contact: : 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**
: **In Japan: +(81)-345209637**
: (24 hours/day, 7 days/week)

2. HAZARDS IDENTIFICATION**Classification of the substance or mixture**

Classification of the substance or mixture : **Skin irritation, Category 2**
Eye irritation, Category 2A
Specific target organ toxicity - repeated exposure, Category 1, Thyroid
Short-term (acute) aquatic hazard, Category 1

GHS Label elements, including precautionary statements

Symbol(s) :



Signal word :

Danger

Hazard statements :

Causes skin irritation.

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Precautionary statements

: **Prevention:**

Causes serious eye irritation.
Causes damage to organs through prolonged or repeated exposure.
Very toxic to aquatic life.

Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
Wash skin thoroughly after handling.
Do not eat, drink or smoke when using this product.
Avoid release to the environment.
Wear protective gloves/ eye protection/ face protection.

Response:

IF ON SKIN: Wash with plenty of soap and water.
IF IN EYES: Rinse cautiously with water for several minutes.
Remove contact lenses, if present and easy to do. Continue rinsing.
Get medical advice/ attention if you feel unwell.
Specific treatment (see supplemental first aid instructions on this label).
If skin irritation occurs: Get medical advice/ attention.
If eye irritation persists: Get medical advice/ attention.
Take off contaminated clothing and wash before reuse.
Collect spillage.

Disposal:

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

3. COMPOSITION/INFORMATION ON INGREDIENTS

Formula : NaI

Chemical nature : Substance

Chemical name	CAS-No.	Concentration
Sodium iodide	7681-82-5	100.00 %
Sodium iodide		

Note: none

4. FIRST AID MEASURES

General advice : First aider needs to protect himself.
Move out of dangerous area.

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	Take off all contaminated clothing immediately.
Inhalation	: If breathed in, move person into fresh air. Call a physician if irritation develops or persists.
Skin contact	: After contact with skin, wash immediately with plenty of soap and water. Consult a physician.
Eye contact	: Rinse immediately with plenty of water, also under the eyelids, for at least 10 minutes. Protect unharmed eye. Consult a physician.
Ingestion	: Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Drink 1 or 2 glasses of water. If accidentally swallowed obtain immediate medical attention.

5. FIREFIGHTING MEASURES

Suitable extinguishing media	: Dry powder Carbon dioxide (CO ₂) Foam Water spray
Specific hazards during firefighting	: Fire may cause evolution of: Hydrogen iodide (HI) Sodium oxides The product itself does not burn.
Special protective equipment for firefighters	: Wear an approved positive pressure self-contained breathing apparatus in addition to standard fire fighting gear.
Further information	: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	: Evacuate personnel to safe areas. Wear personal protective equipment. Unprotected persons must be kept away. Avoid dust formation. Avoid breathing dust. Avoid contact with skin, eyes and clothing.
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- Environmental precautions : Should not be released into the environment.
Prevent further leakage or spillage if safe to do so.
Do not let product enter drains.
- Methods and materials for containment and cleaning up : Use mechanical handling equipment.
Sweep up and shovel into suitable containers for disposal.
Dispose of in accordance with local regulations.

7. HANDLING AND STORAGE**Handling**

- Precautions for safe handling : Wear personal protective equipment.
Use only in well-ventilated areas.
Avoid dust formation.
Avoid breathing dust.
Avoid contact with skin, eyes and clothing.

- 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.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Components with workplace control parameters**

Contains no substances with occupational exposure limit values.

Appropriate engineering controls

Use with local exhaust ventilation.

Individual protection measures, such as personal protective equipment

- Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment.
- Hand protection : Latex gloves
Gloves must be inspected prior to use.
Replace when worn.
- Eye protection : Safety glasses with side-shields

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Skin and body protection	: Protective suit
Hygiene measures	: Avoid contact with skin, eyes and clothing. Do not breathe dust. Wash hands before breaks and at the end of workday. When using, do not eat, drink or smoke.
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 breathing dust. Avoid contact with skin, eyes and clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	: solid
Colour	: colourless
Odour	: odourless
pH	: Note: no data available
Melting point/range	: 662 °C
Boiling point/boiling range	: 1,304 °C at 1,013 hPa
Flash point	: Note: Not applicable
Evaporation rate	: Note: no data available
Flammability	: The product is not flammable.
Lower explosion limit	: Note: Not applicable
Upper explosion limit	: Note: Not applicable
Vapour pressure	: Note: negligible

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Vapour density	: Note: no data available
Density	: 3.5 g/cm ³ at 25 °C
Water solubility	: 165 g/l at 25 °C
Partition coefficient: n-octanol/water	: log Pow: -1.301
Ignition temperature	: Note: Not applicable
Auto-ignition temperature	: Note: not auto-flammable
Decomposition temperature	: Note: No decomposition if used as directed.
Viscosity, dynamic	: Note: Not applicable
Viscosity, kinematic	: Note: Not applicable
Oxidizing properties	: The substance or mixture is not classified as oxidizing.
Molecular weight	: 149.89 g/mol
Bulk density	: ca. 1,500 kg/m ³

10. STABILITY AND REACTIVITY

Chemical stability	: No decomposition if stored and applied as directed.
Possibility of hazardous reactions	: No dangerous reaction known under conditions of normal use.
Conditions to avoid	: Protect from heat/overheating. Protect from contamination.
Incompatible materials to avoid	: Strong acids Oxidizing agents Nitrates

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Hazardous decomposition products : Hydrogen iodide (HI)
Sodium oxides

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity : LD50: 4,340 mg/kg
Species: Rat

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 : Species: Rabbit
Result: Skin irritation

Eye irritation : Species: Rabbit
Result: Eye irritation

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

Genotoxicity in vitro : Test Method: reverse mutation assay
Cell type: Salmonella typhimurium
Metabolic activation: with and without metabolic activation
Result: negative
Method: OECD Test Guideline 471

12. ECOLOGICAL INFORMATION**Toxicity**

Toxicity to fish : LC50: > 100 mg/l
Exposure time: 96 h
Species: Danio rerio (zebra fish)
Method: OECD Test Guideline 203

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Toxicity to daphnia and other aquatic invertebrates : EC50: 0.17 mg/l
Exposure time: 48 h
Species: Daphnia magna (Water flea)

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

Persistence and degradability

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

Bioaccumulative potential

Bioaccumulation : Note: No bioaccumulation is to be expected (log Pow <= 4).

Other adverse effects

Additional ecological information : Should not be released into the environment.

13. DISPOSAL CONSIDERATIONS

Disposal methods : In accordance with local and national regulations.

14. TRANSPORT INFORMATION**ADR**

UN/ID No. : UN 3077
Description of the goods : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
(SODIUM IODIDE)
Class : 9
Packing group : III
Classification Code : M7
Hazard Identification Number : 90

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Labels : 9

IATA

UN/ID No. : UN 3077

Description of the goods : Environmentally hazardous substance, solid, n.o.s.
(Sodium iodide)

Class : 9

Packing group : III

Labels : 9

Packing instruction (cargo
aircraft) : 956

Packing instruction

(passenger aircraft)

: 956

Packing instruction

(passenger aircraft)

: Y956

IMDG

UN/ID No. : UN 3077

Description of the goods : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,
N.O.S.
(SODIUM IODIDE)

Class : 9

Packing group : III

Labels : 9

EmS Number 1 : F-A

EmS Number 2 : S-F

Marine pollutant : yes

Not regulated for transport when single and combination packagings are <5L for liquids or <5kg for solids per ADR 2.2.9.2.10, IMDG 2.10.3 and IATA SP A197).

15. REGULATORY INFORMATION**National regulatory information**

Vessel Safety Law : Miscellaneous dangerous substances and articles (Article 2 and
JP VSL 3 of rules on shipping and storage of dangerous goods and its
Attached Table 1)

Aviation Law : Miscellaneous dangerous substances and articles (Article 194
JP AVL of The Enforcement Rules of Aviation Law and its Attached
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Fire Service Law : Not relevant

Poisonous and Deleterious
Substances Control Law : Not relevant**Other international regulations****Notification status**US. Toxic Substances
Control Act : On TSCA InventoryAustralia. Industrial Chemical
(Notification and
Assessment) Act : On the inventory, or in compliance with the inventoryCanada. 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 inventoryPhilippines. The Toxic
Substances and Hazardous
and Nuclear Waste Control
Act : On the inventory, or in compliance with the inventoryChina. Inventory of Existing
Chemical Substances
(IECSC) : On the inventory, or in compliance with the inventoryNew Zealand. Inventory of
Chemicals (NZIoC), as
published by ERMA New
Zealand : On the inventory, or in compliance with the inventory**16. OTHER INFORMATION**

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	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

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