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

| 1.1. Product identifier | | | |
|---|---|-----------------|--|
| Product name | lodine solution | lodine solution | |
| SDS-number | 00000021492 | | |
| Type of product | Mixture | | |
| Remarks | SDS according to Art. 31 of Regulation (EC) 1907/2 | 006. | |
| 1.2. Relevant identified u | of the substance or mixture and uses advised aga | inst | |
| Use of the Substance/Mixture | Laboratory chemicals | | |
| Uses advised against | none | | |
| 1.3. Details of the supplie | the safety data sheet | | |
| Company | Honeywell International Inc.Honeywell International Inc.115 Tabor Road115 Tabor Road07950-2546 Morris PlainsMorris Plains, NJ 0USAUSA | | |
| Telephone For further information, please contact: | SafetyDataSheet@Honeywell.com | | |
| 1.4. Emergency telephon | mber | | |
| Emergency telephone number Country based Poison Control Center | +1-703-527-3887 (ChemTrec-Transport) +1-303-389-1414 (Medical) see chapter 15.1 | | |

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

REGULATION (EC) No 1272/2008

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|---|---------|--------------------------|--|---------------------|
| | | | | |
| Specific target organ toxic H373 May cause damage | | | | |
| 2.2. Label elements | | | | |
| REGULATION (EC) No 12 | 72/200 | 8 | | |
| Hazard pictograms | : | | | |
| Signal word | : | Warning | | |
| Hazard statements | : | | May cause damage to prolonged or repeated | |
| Precautionary statements | : | | Do not breathe dust/ fume/ gas/ m | ume/ gas/ mist/ |
| | | P280 V | apours/ spray. Vear protective glove ace protection. | es/ eye protection/ |
| | | P308 + P313 | F exposed or concern dvice/ attention. | ned: Get medical |
| Hazardous components which must be listed on th | : | iodine | | |
| label | e | | | |
| 2.3. Other hazards | | | | |
| This product is a mixture. effects on the thyroid. Res | | | | |
| CTION 3: Composition/inf | ormatio | on on ingredients | | |
| 3.1. Substance Not applicable | | | | |
| 3.2. Mixture | | | | |
| Chemical name CAS- Index | | Classification 1272/2008 | Concentration | Remarks |
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| | REACH Registration Number EC-No. | | | |
|------------------|--|--|----------------|--|
| iodine | 7553-56-2 053-001-00-3 231-442-4 | Acute Tox. 4; H302; Oral Acute Tox. 4; H332; Inhalation Acute Tox. 4; H312; Dermal Skin Irrit. 2; H315 Eye Irrit. 2; H319 STOT SE 3; H335; Respiratory system STOT RE 1; H372 Aquatic Acute 1; H400 | < 2,2 % | |
| Potassium iodide | 7681-11-0 231-659-4 | STOT RE 1; H372; Oral; Thyroid | >= 1 % - < 5 % | |

Remaining components of this product are non-hazardous and/or are present at concentrations below reportable limits.

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.

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:

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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 jet Foam Carbon dioxide (CO2) 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 case of fire hazardous decomposition products may be produced such as: Hydrogen iodide (HI) Iodine compounds Potassium oxide

5.3. Advice for firefighters

In the event of fire, wear self-contained breathing apparatus. Do not use a solid water stream as it may scatter and spread fire.Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

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Provide adequate ventilation. Wear personal protective equipment. Unprotected persons must be kept away. Avoid contact with skin, eyes and clothing.

6.2. Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not flush into surface water or sanitary sewer system.

6.3. Methods and materials for containment and cleaning up

Soak up with inert absorbent material. Pick for disposal in tightly closed containers

6.4. Reference to other sections

For personal protection see section 8.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling:

Wear personal protective equipment. Avoid inhalation, ingestion and contact with skin and eyes.

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

Hygiene measures:

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.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers: Store in original container. Keep containers tightly closed in a dry, cool and well-ventilated place.

7.3. Specific end use(s)

no additional data available

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits:

| Components | Basis / Value type | Value / Form of exposure | Exceeding Factor | Remarks |
|------------|-----------------------|-----------------------------|---------------------|---------|
| iodine | EH40 WEL | | | Listed |
| iodine | EH40 WEL STEL | 1,1 mg/m3 0,1 ppm | | |

STEL - Short term exposure limit

DNEL/ PNEC-Values

| Component | End- use/impact | Exposure duration | Value | Exposure routes | Remarks |
|------------------|---|-------------------|-------------------|-----------------|---------|
| iodine | Workers / Long-term systemic effects | | 0,07 mg/m3 | Inhalation | |
| iodine | Workers / Long-term systemic effects | | 0,01mg/kg bw/d | Skin contact | |
| Potassium iodide | Workers / Long-term systemic effects | | 0,07 mg/m3 | Inhalation | |
| Potassium iodide | Workers / Long-term systemic effects | | 1,0mg/kg bw/d | Skin contact | |
| Potassium iodide | Consumers / Long-term systemic effects | | 0,035 mg/m3 | Inhalation | |
| Potassium iodide | Consumers / Long-term | | 1mg/kg bw/d | Skin contact | |

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| | systemic effects | | | |
|------------------|---|-------------------|-----------|--|
| Potassium iodide | Consumers / Long-term systemic effects | 0,01mg/kg bw/d | Ingestion | |
| Potassium iodide | Consumers / Acute systemic effects | 0,01mg/kg bw/d | Ingestion | |

| Component | Environmental compartment / Value | Remarks |
|------------------|---------------------------------------|----------------------------|
| iodine | Fresh water sediment: 0,01813 mg/l | |
| iodine | Marine water: 0,06001 mg/l | |
| iodine | Sewage treatment plant: 11 mg/l | Assessment factor: 10 |
| iodine | Fresh water sediment: 3,99 mg/kg dw | |
| iodine | Marine sediment: 20,22 mg/kg dw | |
| iodine | Soil: 5,95 mg/kg dw | |
| Potassium iodide | Fresh water: 0,0075 mg/l | Assessment factor: 1000 |
| Potassium iodide | Marine water: | No hazard identified |
| Potassium iodide | Sewage treatment plant: | No hazard identified |
| Potassium iodide | Fresh water sediment: 0,0075 mg/kg dw | Assessment factor: 1000 |
| Potassium iodide | Marine sediment: | No hazard identified |
| Potassium iodide | Soil: | No hazard identified |

8.2. Exposure controls

Occupational exposure controls

The Personal Protective Equipment must be in accordance with EN standards:respirator EN 136, 140,

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|---|---|
| Version 1.5 | Revision Date 16.12.2022 |
| Version 1.5 149; safety glasses EN 166; pro safety shoes EN-ISO 20345. Personal protective equipmer <i>Respiratory protection:</i> In the case of vapour formation <i>Hand protection:</i> Glove material: Natural Latex Break through time: 480 min Glove thickness: 0,6 mm Lapren®706 Gloves must be inspected prior Replace when worn. Remarks:Supplementary note: substances by analogy. | otective suit: EN 340, 463, 468, 943-1, 943-2; gloves EN 374, 511; nt use a respirator with an approved filter. |
| chemical protective glove in pra accordance with EN 374. Since actual conditions of pract the glove manufacturer reccom 50% of the recomended perme Manufacturer's directions for us | actice may be much shorter than the permeation time determined in tical use often deviate from standardised conditions according EN 374 ends to use the chemical protective glove in practice not longer than |
| Eye protection: Safety goggles | |
| <i>Skin and body protection:</i> Protective suit | |
| Environmental exposure con | trols |
| Handle in accordance with loca | I environmental regulations and good industrial practices. |
| SECTION 9: Physical and chemica | al properties |

9.1. Information on basic physical and chemical properties

Physical state : liquid

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| Colour | : | No data available |
|--|---|---------------------------------------|
| Odour | : | No data available |
| Melting point/range | : | No data available |
| Boiling point/boiling range | : | No data available |
| Upper explosion limit | : | No data available |
| Lower explosion limit | : | No data available |
| Flash point | : | Not applicable |
| Auto-ignition temperature | : | No data available |
| Decomposition temperature | : | No decomposition if used as directed. |
| рН | : | No data available |
| Viscosity, kinematic | : | No data available |
| Water solubility | : | soluble |
| Partition coefficient: n- octanol/water | : | No data available |
| Vapour pressure | : | No data available |
| Density | : | No data available |
| Relative vapour density | : | No data available |
| 9.2 Other Information | | |
| Evaporation rate | : | No data available |
| Viscosity, dynamic | : | No data available |

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SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under recommended storage conditions.

10.2. Chemical stability

No decomposition if used as directed.

10.3. Possibility of hazardous reactions

No dangerous reaction known under conditions of normal use.

10.4. Conditions to avoid

Protect from contamination.

10.5. Incompatible materials

Strong oxidizing agents Strong reducing agents

10.6. Hazardous decomposition products

Hazardous decomposition products formed under fire conditions.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute oral toxicity: Acute toxicity estimate Value: > 2.000 mg/kg Method: Calculation method

Acute dermal toxicity: Acute toxicity estimate Value: > 2.000 mg/kg Method: Calculation method

Acute inhalation toxicity:

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Acute toxicity estimate Value: > 5 mg/l Exposure time: 4 h Method: Calculation method

Skin irritation: No data available

Eye irritation: No data available

Respiratory or skin sensitisation: No data available

Carcinogenicity: Note: No data available

Germ cell mutagenicity: Note: No data available

Reproductive toxicity: Remarks: No data available

Aspiration hazard: No data available

11.2. Information on other hazards

Endocrine disrupting properties No data available

Other information: No data available

SECTION 12: Ecological information

12.1. Toxicity

Toxicity to fish: No data available

Toxicity to aquatic plants: No data available

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Toxicity to aquatic invertebrates: No data available

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

No data available

12.6. Endocrine disrupting properties

No data available

12.7. Other adverse effects

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

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For personal protection see section 8.

SECTION 14: Transport information

14.1 UN number

ADR/RID:Not dangerous goods IMDG:Not dangerous goods

IATA:Not dangerous goods

14.2 UN proper shipping name ADR/RID:Not dangerous goods

IMDG:Not dangerous goods IATA:Not dangerous goods

14.3 Transport hazard class(es)

14.4 Packaging group

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 No data available

SECTION 15: Regulatory information

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

| Basis | Value | Remarks |
|--|-------|--|
| Directive 2012/18/EC | | Not applicable |
| 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 \ge 0.1 % (w/w). |

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Poison Control Center

| Country | Phone Number |
|----------------|------------------------------|
| Austria | +4314064343 |
| Belgium | 070 245245 |
| Bulgaria | (+)35929154233 |
| 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 |
| Ireland | +353(1)8092166 |
| Italy | 0382 24444 |
| | Berlin : 030/19240 |
| | Bonn : 0228/19240 |
| | Erfurt : 0361/730730 |
| Germany | Freiburg : 0761/19240 |
| Comany | Göttingen : 0551/19240 |
| | Homburg : 06841/19240 |
| | Mainz : 06131/19240 |
| | Munich : 089/19240 |
| Latvia | +37167042473 |

| 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 Giftinformation);+46104566786 |
| Switzerland | 145 |
| United Kingdom | (+44) 844 892 0111 |

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Other inventory information

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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 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

iodine

H302 Harmful if swallowed.

- H332 Harmful if inhaled.
- H312 Harmful in contact with skin.

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| | | H315 | Causes skin irritation. |
|------------------|---|--------------------|--|
| | | H319 | Causes serious eye irritation. |
| | | H335 | May cause respiratory irritation. |
| | | H372 | Causes damage to organs through prolonged or |
| | | repeated exposure. | |
| | | H400 | Very toxic to aquatic life. |
| Potassium iodide | : | | Causes damage to organs through prolonged or ed exposure if swallowed. |

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 biaccumulative substance PBT Persistent, bioaccmulative und toxic substance

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