

SECTION 1: Identification of the substance/mixture

| | |
|---|---|
| 1.1. Product identifier | RE2343 |
| Product form | : Solution |
| Substance name | : Lugol's Iodine |
| Concentration | : 2% Iodine |
| CAS No. | : 7753-56-2, 7681-11-0, 7732-18-5 |
| Product code | : EG-LGLS |
| Synonyms | : Lugol's Solution |
| 1.2. Relevant identified uses of the substance or mixture and uses advised against | |
| Use of the substance/mixture | : Laboratory chemicals, Manufacture of substances |
| 1.3. Emergency telephone number | |
| Emergency number | : 1.800.424.9300 (USA) +1.703.527.3887 (INT) |

SECTION 2: Hazards Identification


2.1. Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Acute aquatic toxicity (Category 3), H402

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

2.2. GHS Label elements, including precautionary statements

| | |
|----------------------------|---|
| Pictogram | :  |
| Signal word | : Irritant |
| Hazard statement(s) | |
| H402 | : Harmful to aquatic life. |
| Precautionary statement(s) | |
| P273 | : Avoid release to the environment. |
| P501 | : Dispose of contents/ container to an approved waste disposal plant. |

2.3. Hazards not otherwise classified (HNOC) or not covered by GHS

none

SECTION 3: Composition/information on ingredients

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3.1. Composition

| Component | CAS # | % by Weight |
|------------------|-----------|-------------|
| Iodine | 7553-56-2 | 2 |
| Potassium Iodide | 7681-11-0 | 4 |
| Water | 7732-18-5 | 84 |

Toxicological Data on Ingredients : Iodine: ORAL (LD50): Acute: 14000 mg/kg [Rat]. 22000 mg/kg [Mouse]. Potassium Iodide LD50: Not available. LC50: Not available.

SECTION 4: Description of first aid measures

4.1. Description of first aid measures

General advice : Consult a physician. Show this safety data sheet to the doctor in attendance.

First-aid measures after inhalation : If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

First-aid measures after skin contact : Wash off with soap and plenty of water. Consult a physician.

First-aid measures after eye contact : Flush eyes with water as a precaution.

First-aid measures after ingestion : Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

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

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.

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

No data available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2. Special hazards arising from the substance or mixture

Nature of decomposition products not known.

5.3. Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

5.4. More Information

No data available.

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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid breathing vapors, mist or gas. Ensure adequate ventilation.

For personal protection see section 8.

6.2. Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3. Methods and material for containment and cleaning up

Keep in suitable, closed containers for disposal.

6.4. Reference to other sections

For disposal see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

For precautions see section 2.2.

7.2. Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place.

Light sensitive.

Storage class (TRGS 510): Non Combustible Liquids

7.3. Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Components with workplace control parameters

Contains no substances with occupational exposure limit values.

8.2. Exposure controls

Appropriate engineering controls : Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

8.3. Personal protective equipment

Eye protection : Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

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| | |
|---------------------------------|--|
| Skin Protection | : Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. |
| Body protection | : Impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. |
| Respiratory protection | : Respiratory protection not required. For nuisance exposures use type OV/AG (US) or type ABEK (EU EN 14387) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). |
| Environmental exposure controls | : Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided. |

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|--|--|
| Appearance | : Form: liquid |
| Odor | : No data available |
| Odor Threshold | : No data available |
| pH | : No data available |
| Melting point/freezing point | : No data available |
| Initial boiling point and boiling range | : No data available |
| Flash point | : No data available |
| Evaporation rate | : No data available |
| Flammability (solid, gas) | : No data available |
| Upper/lower flammability or explosive limits | : No data available |
| Vapor pressure | : No data available |
| Vapor density | : No data available |
| Relative density | : 1.007 g/cm ³ at 20 °C (68 °F) |
| Water solubility | : No data available |
| Partition coefficient: n-octanol/water | : No data available |
| Auto-ignition temperature | : No data available |

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| | |
|---------------------------|---------------------|
| Decomposition temperature | : No data available |
| Viscosity | : No data available |
| Explosive properties | : No data available |
| Oxidizing properties | : No data available |

9.2. Other information

No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

No data available

10.2. Chemical stability

Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

No data available

10.4. Conditions to avoid

No data available

10.5. Incompatible materials

Strong oxidizing agents

10.6. Hazardous decomposition products

Other decomposition products - No data available

In the event of fire: see section 5

SECTION 11: Toxicological information

11.1. Information on toxicological effects

| | |
|-----------------------------------|---|
| Acute toxicity | : Toxic if taken internally in large quantities. |
| Skin corrosion/irritation | : Causes skin irritation. It can cause brown stains on the skin. It can be absorbed through the skin. |
| Serious eye damage/irritation | : Eyes: Eye contact with liquid causes irritation. Iodine vapors may cause eye irritation. Eye contact with an excessive amount of iodine vapor may also cause blepharitis. |
| Respiratory or skin sensitization | : Inhalation: Low hazard during normal industrial handling. Excessive inhalation of iodine vapors may cause respiratory tract, nasal, and mucous membrane irritation. |
| Germ cell mutagenicity | : No data available |

Carcinogenicity

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| | | |
|--|---|---|
| IARC: | : | No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. |
| NTP: | : | 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. |
| OSHA: | : | No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA. |
| Reproductive toxicity | : | No data available |
| Specific target organ toxicity (single exposure) | : | No data available |
| Specific target organ toxicity (repeated exposure) | : | No data available |
| Aspiration hazard | : | No data available |
| Additional Information | : | No data available |

SECTION 12: Ecological information

| | | |
|---|---|---|
| 12.1. Toxicity | : | No data available |
| 12.2. Persistence and degradability | : | No data available |
| 12.3. Bioaccumulative potential | : | No data available |
| 12.4. Mobility in soil | : | No data available |
| 12.5. Results of PBT and vPvB assessment | : | PBT/vPvB assessment not available as chemical safety assessment not required/not conducted |
| 12.6. Other adverse effects | : | An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Harmful to aquatic life. |

SECTION 13: Disposal considerations

13.1. Waste treatment methods

| | | |
|------------------------|---|--|
| Product | : | Offer surplus and non-recyclable solutions to a licensed disposal company. |
| Contaminated Packaging | : | Dispose of as unused product. |

SECTION 14: Transport information

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DOT (US)

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

SECTION 15: 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

No SARA Hazards

Massachusetts Right To Know Components

No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know Components

| Water | CAS-No. | Revision Date |
|-------|-----------|---------------|
| | 7732-18-5 | |

New Jersey Right To Know Components

| Water | CAS-No. | Revision Date |
|-------|-----------|---------------|
| | 7732-18-5 | |

California Prop. 65 Components

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 Rating

| | | |
|-----------------------|---|---|
| Health Hazard | : | 1 |
| Chronic Health Hazard | : | * |
| Flammability | : | 0 |
| Physical Hazard | : | 1 |

NFPA Rating

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Health hazard : 1
Fire Hazard : 0
Reactivity Hazard : 1

Further Information

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