

CHAITANYA CHS, 2nd FLOOR, OFFICE # 206, SIDDHARTH NAGAR, S.V.ROAD, GOREGAON (W), MUMBAI 400062, MH, INDIA.
 CONTACT: +9122 28725393 /94/ 95 | EMAILID: CARE@SUVCHEM.COM

MATERIAL SAFETY DATA SHEET (MSDS)

IODINE 1N (0.5M) SOLUTION

1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name : IODINE 1N (0.5M) SOLUTION

Product code : SI0314300250
 CAS No: 7553-56-2

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use : Industrial. For professional use only.

1.3. Details of the supplier of the safety data sheet

Company identification : SUVCHEM
 Chaitanya Tower, 2nd Floor, Office # 206,
 Siddharth Nagar, S.V. Road,
 Goregaon (West), Mumbai - 400062,
 Maharashtra, India.
 Contact: +91 22 28725393 / 94 / 95
 Email ID: info@suvchem.com/care@suvchem.com

1.4. Emergency telephone number

Phone no. : + 91 22 28725393 / 94 / 95 (9:00am - 6:00 pm) [Office hours]

2. Hazards identification -DSD

2.1. Classification of the substance or mixture

Classification EC 67/548 or EC 1999/45

Classification : Xn; R20/21/22
 Xi; R36/38

Hazard Class and Category Code(s), Regulation (EC) No 1272/2008 (CLP)

Health hazards : Skin irritation - Category 2 - Warning (CLP : Skin Corr. 2) H315
 Eye irritation - Category 2A - Warning (CLP : Eye Irrit. 2) H319

2.2. Label elements

Labelling EC 67/548 or EC 1999/45

Symbol(s)



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IODINE 1N (0.5M) SOLUTION
2. Hazards identification -DSD (continued)

Symbol(s) : Xn : Harmful
R Phrase(s) : R20/21/22 : Harmful by inhalation, in contact with skin and if swallowed.
 R36/38 : Irritating to eyes and skin.
S Phrase(s) : S24 : Avoid contact with skin.
 S26 : In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
 S35 : This material and its container must be disposed of in a safe way.
 S36/37 : Wear suitable protective clothing and gloves.
 S51 : Use only in well-ventilated areas.
 S59 : Refer to manufacturer/supplier for information on recovery/recycling.
Contains : Water - Yoduro potásico - Iodine

Labelling Regulation EC 1272/2008 (CLP)
Hazard pictograms


Signal words : Warning
Hazard statements : H319 : Causes serious eye irritation.
 H315 : Causes skin irritation.

Precautionary statements

- **Prevention** : P280: Wear protective gloves, protective clothing, eye protection, face protection.
 P264: Wash thoroughly after handling.
- **Response** : P302+P352: IF ON SKIN : Wash with plenty of soap and water.
 P332+P313: If skin irritation occurs : Get medical advice.
 P305+P351+P338: IF IN EYES : Rinse cautiously with water for several minutes.
 Remove contact lenses, if present and easy to do. Continue rinsing.
 P363: Wash contaminated clothing before reuse.

Contains : Water - Yoduro potásico - Iodine

2.3. Other hazards

Other hazards : The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH.

3. Composition/information on ingredients

Substance / Preparation : Preparation.
Hazardous component(s) : This product is hazardous.

| Substance name | Contents | CAS No | EC No | Annex No | REACH Ref. | Classification |
|----------------|-------------|-----------|-----------|--------------|------------|---|
| Iodine | > 10 < 15 % | 7553-56-2 | 231-442-4 | 053-001-00-3 | ---- | Xn; R20/21 N; R50 Acute Tox. 4 (skin) _ H312 Acute Tox. 4 (inhal) _ H332 Aquatic Acute 1 _ H400 |

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MATERIAL SAFETY DATA SHEET (MSDS)

IODINE 1N (0.5M) SOLUTION

3. Composition/information on ingredients (continued)

| Substance name | Contents | CAS No | EC No | Annex No | REACH Ref. | Classification |
|-----------------|---------------|-----------|-----------|----------|------------|---|
| Yoduro potásico | : > 15 < 25 % | 7681-11-0 | ---- | ---- | ---- | Xn; R22 Xi; R36/38 Acute Tox. 4 (oral) _ H302 Eye irrit 2 _ H319 Skin Irrit. 2 _ H315 |
| Water | : > 50 < 75 % | 7732-18-5 | 231-791-2 | ---- | ---- | Not classified (DSD/DPD) Not classified (GHS) |

4. First aid measures

4.1. Description of first aid measures

| | |
|--------------|---|
| Inhalation | : Assure fresh air breathing. Allow the victim to rest. |
| Skin contact | : Specific treatment (see on this label). Get medical advice. If skin irritation occurs : Wash with plenty of soap and water. Wash contaminated clothing before reuse. |
| Eye contact | : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists : Get medical advice. |
| Ingestion | : Obtain emergency medical attention. Do NOT induce vomiting. Rinse mouth. |

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

| | |
|--------------------------|---|
| Symptoms relating to use | : Causes serious eye irritation. Causes skin irritation. |
|--------------------------|---|

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

| | |
|---------------------|---|
| General information | : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible). |
|---------------------|---|

5. Fire-fighting measures

5.1. Extinguishing media

| | |
|--------------------------------|--|
| Suitable extinguishing media | : Foam. Dry powder. Carbon dioxide. Water spray. Sand. |
| Unsuitable extinguishing media | : Do not use a heavy water stream. |
| Surrounding fires | : Use water spray or fog for cooling exposed containers. |

5.2. Special hazards arising from the substance or mixture

| | |
|-------------------------------|---|
| Hazardous combustion products | : Under fire conditions, hazardous fumes will be present. |
|-------------------------------|---|

5.3. Advice for fire-fighters

| | |
|-------------------------|---|
| Protection against fire | : Do not enter fire area without proper protective equipment, including respiratory protection. |
|-------------------------|---|

MATERIAL SAFETY DATA SHEET (MSDS)
IODINE 1N (0.5M) SOLUTION
5. Fire-fighting measures (continued)

Special procedures : Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting water to enter environment.

6. Accidental release measures
6.1. Personal precautions, protective equipment and emergency procedures

For emergency responders : Equip cleanup crew with proper protection.
Ventilate area.

For non-emergency personnel : Evacuate unnecessary personnel.

6.2. Environmental precautions

Environmental precautions : Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

Clean up methods : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

6.4. Reference to other sections

See section 8. Exposure controls/personal protection

7. Handling and storage
7.1. Precautions for safe handling

Handling : Wash thoroughly after handling.
Wash thoroughly after handling.

Technical protective measures : Provide good ventilation in process area to prevent formation of vapour.

7.2. Conditions for safe storage, including any incompatibilities

Storage : Keep only in the original container in a cool, well ventilated place. Keep container closed when not in use.

Storage - away from : Strong bases. Strong acids. Sources of ignition. Direct sunlight.

7.3. Specific end use(s)

Specific end use(s) : None.

MATERIAL SAFETY DATA SHEET (MSDS)
IODINE 1N (0.5M) SOLUTION
8. Exposure controls/personal protection
8.1. Exposure controls
Personal protection

Personal protection

- Respiratory protection
- Hand protection
- Skin protection
- Eye protection
- Others

- : Avoid all unnecessary exposure.
- : Wear approved mask.
- : Wear protective gloves.
- : Wear suitable protective clothing.
- : Chemical goggles or safety glasses.
- : When using, do not eat, drink or smoke.

8.2. Control parameters

Occupational Exposure Limits : No data available.

9. Physical and chemical properties
9.1. Information on basic physical and chemical properties

| | |
|--------------------------------|----------------------|
| Physical state at 20 °C | : Liquid. |
| Colour | : Colorless |
| Odour | : Characteristic. |
| Odour threshold | : No data available. |
| pH value | : No data available. |
| Melting point [°C] | : No data available. |
| Decomposition point [°C] | : N/A |
| Critical temperature [°C] | : No data available. |
| Auto-ignition temperature [°C] | : No data available. |
| Flammability (solid, gas) | : N/A |
| Flash point [°C] | : No data available. |
| Boiling point [°C] | : N/A |
| Initial boiling point [°C] | : No data available. |
| Final boiling point [°C] | : No data available. |
| Evaporation rate | : N/A |
| Vapour pressure [20°C] | : No data available. |
| Vapour pressure mm/Hg | : N/A |
| Vapour density | : N/A |

MATERIAL SAFETY DATA SHEET (MSDS)
IODINE 1N (0.5M) SOLUTION
9. Physical and chemical properties (continued)

| | |
|--|----------------------|
| Density [g/cm ³] | : N/A |
| Relative density, gas (air=1) | : N/A |
| Relative density, liquid (water=1) | : N/A |
| Solubility in water [% weight] | : N/A |
| Solubility in water | : No data available. |
| Log Pow octanol / water at 20°C | : No data available. |
| Solubility | : N/A |
| Viscosity at 40°C [mm ² /s] | : No data available. |

9.2. Other information

| | |
|------------------------------|----------------------|
| Explosive properties | : N/A |
| Explosion limits - upper [%] | : No data available. |
| Explosion limits - lower [%] | : No data available. |
| Oxidising properties | : No data available. |

10. Stability and reactivity
10.1. Reactivity

| | |
|------------|--------------------|
| Reactivity | : Not established. |
|------------|--------------------|

10.2. Chemical stability

| | |
|--------------------|--|
| Chemical stability | : Stable under recommended storage conditions. |
|--------------------|--|

10.3. Possibility of hazardous reactions

| | |
|---------------------|--------------------|
| Hazardous reactions | : Not established. |
|---------------------|--------------------|

10.4. Conditions to avoid

| | |
|---------------------|--|
| Conditions to avoid | : Direct sunlight. Extremely high or low temperatures. |
|---------------------|--|

10.5. Incompatible materials

| | |
|--------------------|-------------------------------|
| Materials to avoid | : Strong acids. Strong bases. |
|--------------------|-------------------------------|

10.6. Hazardous decomposition products

| | |
|----------------------------------|---|
| Hazardous decomposition products | : Fumes. Carbon monoxide. Carbon dioxide. |
|----------------------------------|---|

MATERIAL SAFETY DATA SHEET (MSDS)
IODINE 1N (0.5M) SOLUTION
11. Toxicological information
11.1. Information on toxicological effects

| | |
|-------------------------------|--|
| Toxicity information | : The product has been not fully tested. The calculated risk has been done under the requirements of the EU regulations. |
| Acute toxicity | |
| • Inhalation | : Based on available data, the classification criteria are not met. |
| • Dermal | : Based on available data, the classification criteria are not met. |
| • Ingestion | : Based on available data, the classification criteria are not met. |
| Corrosion | : Based on available data, the classification criteria are not met. |
| Irritation | : Causes serious eye irritation. Causes skin irritation. |
| Sensitization | : Based on available data, the classification criteria are not met. |
| Mutagenicity | : Based on available data, the classification criteria are not met. |
| Carcinogenicity | : Based on available data, the classification criteria are not met. |
| Toxic for reproduction | : Based on available data, the classification criteria are not met. |
| STOT-single exposure | : Based on available data, the classification criteria are not met. |
| STOT-repeated exposure | : Based on available data, the classification criteria are not met. |
| Aspiration hazard | : Based on available data, the classification criteria are not met. |

12. Ecological information
12.1. Toxicity

| | |
|-----------------------------|--|
| Toxicity information | : The product has been not fully tested. The calculated risk has been done under the requirements of the EU regulations. |
|-----------------------------|--|

12.2. Persistence - degradability

| | |
|------------------------------------|------------------|
| Persistence - degradability | : Biodegradable. |
|------------------------------------|------------------|

12.3. Bioaccumulative potential

| | |
|----------------------------------|--------------------|
| Bioaccumulative potential | : Not established. |
|----------------------------------|--------------------|

12.4. Mobility in soil

| | |
|-------------------------|--------------------|
| Mobility in soil | : Not established. |
|-------------------------|--------------------|

12.5. Results of PBT and vPvB assessment

| | |
|---|---|
| Results of PBT and vPvB assessment | : The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH. |
|---|---|

MATERIAL SAFETY DATA SHEET (MSDS)
IODINE 1N (0.5M) SOLUTION
12. Ecological information (continued)
12.6. Other adverse effects

Environmental precautions : Avoid release to the environment.

13. Disposal considerations
13.1. Waste treatment methods

General : Avoid release to the environment. Dispose in a safe manner in accordance with local/national regulations.

14. Transport information
14.1. Land transport (ADR-RID)

General information : Unregulated.

14.2. Sea transport (IMDG) [English only]

General information : Unregulated.

14.3. Air transport (ICAO-IATA) [English only]

General information : Unregulated.

15. Regulatory information
15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Safety, health and environmental regulations/legislation specific for the substance or mixture : Ensure all national/local regulations are observed.

REACH Restrictions - Annex XVII : The components of this product are not subject to restrictions.

REACH Authorisation - Annex XIV : The components of this product are not subject to authorization.

15.2. Chemical Safety Assessment

Chemical Safety Assessment : It has not been carried out.

MATERIAL SAFETY DATA SHEET (MSDS)

IODINE 1N (0.5M) SOLUTION

In accordance with REACH Regulation (CE) N° 1907/2006 and with CLP Regulation (CE) N° 1272/2008

DISCLAIMER:

- **SUVCHEM** Products are to be used as Lab Chemicals for R&D only. Not for drug, medicinal, household or other uses.
- **SUVCHEM** shall not be responsible for any damage resulting from handling or from contact with the above product.
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