

ESKAY IODINE PVT. LTD, JHAGADIA
Plot No. 907/2. GIDC, ESTATE, Jhagadia, Gujarat-393110

SDS: MONO CHLORO IODINE

SECTION-1 : IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING/ UNDERTAKINGTION

1.1 Product identifier

Trade name: Mono chloro Iodine
CAS Number: 7790-99-0

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

Laboratory chemicals, Manufacture of substances

Application of the substance / the mixture

Chemical for various applications
Laboratory chemical

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:

ESKAY IODINE PVT. LTD.
Plot no: 907/2, GIDC Industrial Estate,
Jhagadia, Dist: Bharuch
Gujarat-393110, INDIA

1.4 Emergency telephone number: +91 7567039300, +91-022-66227575

Contact no: 7567039300

Email: sunilgsharda@sk1932.com

SECTION-2 HAZARD IDENTIFICATION

2.1 Classification of the substance or mixture Classification according to Regulation (EC) No 1272/2008

Skin corrosion (Category 1B), H314 Respiratory sensitization (Category 1), H334

Classification according to EU Directives 67/548/EEC or 1999/45/EC

C Corrosive R34, R42



GHS pictograms

Information concerning particular hazards for human and environment: Not applicable.

2.2 Label elements

Labelling according to EU guidelines:

The substance is not subject to classification according to the sources of literature known to us. Observe the general safety regulations when handling chemicals.

Hazard statement(s)

H314 Causes severe skin burns and eye damage.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled

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Precautionary statement(s)

P261 Avoid breathing vapours. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 Immediately call a POISON CENTER or doctor/ physician

2.3 Other hazards None

SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS**3.1 Chemical characterization: Substances**

CAS No.	Description
7790-99-0	Mono chloro Iodine

Potential Acute Health Effects: Extremely hazardous in case of skin contact (corrosive, irritant), of eye contact (irritant), of ingestion, of inhalation. The Amount of tissue damage depends on length of contact. Eye contact can result in corneal damage or blindness. Skin Contact can produce inflammation and blistering. Inhalation of dust will produce irritation to gastro-intestinal or respiratory tract, characterized by burning, sneezing and coughing. Severe over-exposure can produce lung damage, choking, unconsciousness or death. Inflammation of the eye is characterized by redness, watering, and itching. Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering. **Potential Chronic Health Effects:** Extremely hazardous in case of skin contact (corrosive, irritant), of eye contact (irritant), of ingestion, of inhalation. The substance is toxic to lungs, mucous membranes. Repeated or prolonged exposure to the substance can produce target organs damage. Repeated exposure of the eyes to a low level of dust can produce eye irritation. Repeated skin exposure can produce local skin destruction, or dermatitis. Repeated inhalation of dust can produce varying degree of respiratory irritation or lung damage. Repeated exposure to a highly toxic material may produce general deterioration of health by an accumulation in one or many human organs. Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation

SECTION 4 – 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.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration.

In case of skin contact

Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed

Do NOT induce vomiting. 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 labeling (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 – FIRE FIGHTING 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

Hydrogen chloride gas, Hydrogen iodide

5.3 Advice for firefighters

Advice for firefighters Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information

Use water spray to cool unopened containers.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. For personal protection see section 8..

6.2 Environmental precautions:

Do not let product enter drains.

6.3 Methods and material for containment and cleaning up:

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

Reference to other sections For disposal see section 13.

SECTION 7 – HANDLING & STORAGE

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.

7.2 Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Recommended storage temperature: 2 - 8 °C Handle and store under inert gas

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

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

8.2 Exposure controls

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

Personal protective equipment

Eye/face protection

Tightly fitting safety goggles. Face shield (8-inch minimum). Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

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. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. Body Protection Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

Do not let product enter drains

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

General Information

Appearance:

Form:	Liquid
Odor:	no data available
Colour	dark red, dark brown
Odour threshold:	Not determined.
pH-value at 20 °C:	no data available
Change in condition	no data available
Melting point/Melting range:	27.2°C (81°F)
Boiling point/Boiling range:	97,4 °C - lit.
Flash point:	Not applicable.
Flammability (solid, gaseous):	No data available.
Decomposition temperature:	Not determined.
Auto igniting:	Not determined.
Danger of explosion:	No data available
Vapor pressure:	5,61 - (Air = 1.0)
Density at 20 °C:	No data available
Specific Gravity :	3.18 (Water = 1)
Relative density	3,24 g/cm ³ at 25 °C
Vapour density	No data available

Evaporation rate Not applicable.

Solubility : Soluble.

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Partition coefficient (n-octanol/water): Not determined.

Viscosity:

Dynamic: Not applicable.

Kinematic: Not applicable.

9.2 Other information : No further relevant information available.

SECTION 10 – STABILITY AND REACTIVITY

10.1 Reactivity

10.2 Chemical stability Stable under recommended storage condition

10.3 Possibility of hazardous reactions No dangerous reactions known.

10.4 Conditions to avoid

Heat Gives off large amounts of heat when mixed with alkali substances such as carbonates and hydroxides., Reacts with most metals including zinc and stainless steel., Reacts violently or explosively with oxidizing materials such as chromic acid, peroxides, halides, perchlorates, and permanganates., Reacts violently with organic amines., Iodine reacts explosively with acetylene and ammonia, violently with acetaldehyde..

10.5 Incompatible materials: Organic materials, Strong bases, Metals, Highly reactive with reducing agents.

10.6 Hazardous decomposition products: No data available

SECTION 11 – TOXICOLOGY INFORMATION

11.1 Information on toxicological effects

Acute toxicity LD50

Acute oral toxicity (LD50): 50 mg/kg [Rat] LD50 Intra peritoneal - Mouse - 58 mg/kg

Skin corrosion/irritation Skin –

Skin - EPISKIN Human Skin Model Test Result: Corrosive, category 1C - where responses occur after exposures between 1 hour and 4 hours and observations up to 14 days. (OECD Test Guideline 431)

Serious eye damage/eye irritation Eyes –

Risk of serious damage to eyes.

Respiratory or skin sensitisation

No data available

Carcinogenicity

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

Reproductive toxicity

Exposure to excessive amounts of iodine during pregnancy is capable of producing fetal hypothyroidism. Iodine-containing drugs have been associated with fetal goiter.

Other Toxic Effects on Humans:

Extremely hazardous in case of skin contact (corrosive, irritant), of ingestion, of inhalation

Specific target organ toxicity - single exposure No data available

Specific target organ toxicity - repeated exposure No data available

Additional Information

Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin., Cough, Shortness of breath, Headache, Nausea

SECTION 12– ECOLOGICAL INFORMATION

12.1 Toxicity :

Toxicity to fish semi-static test LC50 - Oncorhynchus mykiss (rainbow trout) - > 0,17 mg/l - 96 h
 Toxicity to daphnia & static test EC50 - Daphnia magna (Water flea) - 0,18 mg/l - 48h

12.2 Persistence and degradability :

Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

12.3 Bio accumulative potential :

No further relevant information available.

12.4 Mobility in Soil :

No further relevant information available.

12.5 Results of PBT and vPvB :

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.

12.6 Other adverse effects :

No data available.

SECTION 13 – DISPOSAL INFORMATION

13.1 Disposal Considerations

Product

Offer surplus and non-recyclable solutions to a licensed disposal company.

Waste treatment methods

Recommendation:

Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company.

Uncleaned packagings:

Recommendation:

Disposal must be made according to official regulations. Packagings that cannot be cleansed are to be disposed of in the same manner as the product.

SECTION 14 – TRANSPORTATION INFORMATION

14.1 UN number

ADR/RID: -1792

IMDG: -1792

IATA: -1792

14.2 UN proper shipping name

ADR/RID:

Not permitted for transport

IMDG:

Iodine mono chloride,

IATA:

Iodine mono chloride,

Passenger Aircraft:

Not permitted for transport

14.3 Transport hazard class (es) :

ADR/RID: - 8

IMDG: - 8

IATA: - 8

14.4 Packing group

ADR/RID: - II

IMDG: -II

IATA: II

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14.5 Environmental hazards

ADR/RID: No

IMDG Marine pollutant: No

IATA: No

14.6 Special precautions for user

No data available

SECTION 15 – REGULATORY INFORMATION**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

No Data Available

15.2 Chemical safety assessment:

For this product a chemical safety assessment was not Carried out

SECTION-16 : OTHER INFORMATION

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Department issuing MSDS:

EHS/QA

Contact:

Mr Rajendra Deore // Mr Bhavesh Dhragdhria

Abbreviations and acronyms:

RID: Regulations Concerning the International Transport of Dangerous Goods by Rail

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

Aquatic Acute 1: Hazardous to the aquatic environment – Acute Hazard, Category 1