

# SAFETY DATA SHEET



according to Regulation (EC) No 1907/2006 (REACH) as amended

## Iodine chloride

Creation date 01st December 2022  
Revision date Version 1.0

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

- 1.1. Product identifier**  
Iodine chloride  
Substance / mixture substance  
Chemical name Iodine chloride  
CAS number 7790-99-0  
EC (EINECS) number 232-236-7
- 1.2. Relevant identified uses of the substance or mixture and uses advised against**  
**Substance's intended use**  
Reagent used in organic chemical synthesis, iodine source for industrial use.  
**Substance uses advised against**  
not available
- 1.3. Details of the supplier of the safety data sheet**  
**Manufacturer**  
Name or trade name Vinyl Kft.  
Address Adler Károly u. 19., Miskolc, 3524  
Hungary  
Phone +3646432633  
E-mail ehsq@vinyl.hu
- 1.4. Emergency telephone number**  
Emergency telephone number: 003646432633

### SECTION 2: Hazards identification

- 2.1. Classification of the substance or mixture**  
**Classification of the substance in accordance with Regulation (EC) No 1272/2008**

The substance is classified as dangerous.

Acute Tox. 2, H300  
Acute Tox. 3, H311  
Skin Corr. 1A, H314  
STOT SE 3, H335

Full text of all classifications and hazard statements is given in the section 16.

- 2.2. Label elements**  
**Hazard pictogram**



**Signal word**  
Danger

#### Dangerous substance

Iodine chloride  
(EC: 232-236-7; CAS: 7790-99-0)

#### Hazard statements

H300 Fatal if swallowed.  
H311 Toxic in contact with skin.  
H314 Causes severe skin burns and eye damage.  
H335 May cause respiratory irritation.

#### Precautionary statements

P260 Do not breathe dust/fume/gas/mist/vapours/spray.  
P264 Wash hands and exposed parts of the body thoroughly after handling.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.

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P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
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/doctor.
P311	Call a POISON CENTER/doctor.
P405	Store locked up.
P501	Dispose of contents/container to by disposing in a hazardous waste receptacle.

### Requirements for child-resistant fastenings and tactile warning of danger

Container must carry a tactile warning of danger. Container must be fitted with child-resistant fastening.

### 2.3. Other hazards

No other known specific hazards for human or environment.  
Results of PBT and vPvB assessment not applicable.

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note
CAS: 7790-99-0 EC: 232-236-7	<b>substance main component</b> Iodine chloride	100	Acute Tox. 1, H300 Acute Tox. 3, H311 Skin Corr. 1A, H314 STOT SE 3, H335	

Full text of all classifications and hazard statements is given in the section 16.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

Immediately remove contaminated clothing and shoes. In case of exposition, obtain immediate medical help.

#### If inhaled

- Take the victim into fresh air, loosen his clothes and let him rest.
- If necessary administer artificial respiration.
- Do not administer mouth-to-mouth resuscitation.
- Obtain immediate medical attention and show him the safety data sheet or the label.

#### If on skin

- Remove the contaminated clothes.
- Wash the skin surface with plenty of water and soap (for 15 minutes).
- Obtain medical help.

#### If in eyes

- In case of contact with eyes flush with plenty of flowing water holding eyelids apart and moving the eyeballs (for at least 15 minutes).
- Obtain immediate medical help.

#### If swallowed

- Obtain immediate medical attention and show him the label.
- Place the victim into comfortable position.
- Do not give the victim anything orally, and do not induce vomiting if the victim is unconscious.

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

#### If inhaled

No data available.

#### If on skin

No data available.

#### If in eyes

No data available.

#### If swallowed

No data available.

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

No data available.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

#### Suitable extinguishing media

Water fog, foam, dry chemical (extinguishing powder), carbon dioxide. Choose extinguishing media depending on surrounding fire.

#### Unsuitable extinguishing media

Do not use full water jet.

### 5.2. Special hazards arising from the substance or mixture

In case of fire, hydrogen iodide and hydrogen chloride gas may be formed, the inhalation of such combustion products can have serious adverse effects on health.

### 5.3. Advice for firefighters

Wear full protective clothing and self-contained breathing apparatus. The contaminated extinguishing water should be collected separately, do not enter into surface- or groundwaters.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel: Keep unprotected people away, allow only well trained experts wearing suitable protective clothing to abide in the field of accident.

For emergency responders: Avoid contact with skin, eyes and clothing. Wear appropriate personal protective equipment. Remove the ignition sources. Ensure adequate ventilation.

### 6.2. Environmental precautions

Dispose of spillage and waste (product/packaging) in accordance with all applicable environmental laws. Do not allow the substance and the resulting waste to enter sewers/soil/surface or ground water. Notify the respective authorities in accordance with local law in the case of environmental pollution immediately.

### 6.3. Methods and material for containment and cleaning up

If the spilled material is liquid: collect with absorbent (e.g. sand, silica gel, acid binder, universal binder), then place into a suitable, closed, properly labelled chemical waste container for removal/disposal. If the spilled material is solid: collect mechanically, then place the collected waste into appropriate, labeled, closable hazardous waste container till proper removal/disposal. During the collection, placement, disposal of the waste, wear appropriate individual protective equipments.

### 6.4. Reference to other sections

Section 8. and 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Observe conventional hygiene precautions. Observe the pertinent regulations on industrial safety and basic hygiene rules. Avoid contact with skin, eyes and clothing. Do not eat, drink or smoke at the workplace.

Technical measures: Ensure adequate ventilation, or if necessary, local exhaust. Precautions against fire and explosion: General measures of preventive fire protection.

### 7.2. Conditions for safe storage, including any incompatibilities

Technical measures and storage condition: Keep in original, closed and appropriately labelled container. The place of storage has to be properly ventilated and cleanable. Store in cool and dry place.

Incompatible materials: keep away from organic materials and water. Packaging material: no special prescriptions.

### 7.3. Specific end use(s)

Reagent used in organic chemical synthesis, iodine source for industrial use.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

Occupational exposure limit values: The substance is not regulated with exposure limit value.

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### 8.2. Exposure controls

In case of a hazardous material with no controlled concentration limit it is the employer's duty to keep concentration levels down to a minimum achievable by existing scientific and technological means, where the hazardous substance poses no harm to workers.

Appropriate engineering controls: In pursuance of work is proper foresight needed to avoid spilling/leaking onto clothes and floors and to avoid contact with eyes and skin. Ensure adequate ventilation.

#### Eye/face protection

Use appropriate protective glasses (EN 166).

#### Skin protection

Use appropriate protective clothes.

Hand protection: use appropriate protective gloves (nitrile rubber, PVC, EN 374). Dispose of contaminated gloves, do not reuse them.

#### Respiratory protection

In case of insufficient ventilation use appropriate respiratory protective device.

#### Thermal hazard

not available

#### Environmental exposure controls

No special measures required.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state	solid
Colour	reddish brown
Odour	characteristic, iodic
Melting point/freezing point	26 °C
Boiling point or initial boiling point and boiling range	97 °C
Flammability	data not available
Lower and upper explosion limit	data not available
Flash point	data not available
Auto-ignition temperature	data not available
Decomposition temperature	data not available
pH	data not available
Kinematic viscosity	data not available
Solubility in water	hydrolyses in water
Partition coefficient n-octanol/water (log value)	data not available
Vapour pressure	data not available
Density and/or relative density	
Density	3.1 g/cm <sup>3</sup>
Relative vapour density	data not available
Particle characteristics	data not available

### 9.2. Other information

not available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Decomposes (hydrolyses) in contact with water. Reacts violently with organic materials.

### 10.2. Chemical stability

Decomposes in contact with water or air humidity.

### 10.3. Possibility of hazardous reactions

Reacts violently with organic materials.

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### 10.4. Conditions to avoid

Protect from heat and moisture.

### 10.5. Incompatible materials

Water, organic materials.

### 10.6. Hazardous decomposition products

When heated or in contact with moisture, toxic and corrosive vapours (hydrogen chloride and hydrogen iodide) may be formed.

## SECTION 11: Toxicological information

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Toxicological data on the substance:

#### Acute toxicity

Fatal if swallowed. Toxic in contact with skin.

#### Skin corrosion/irritation

Causes severe skin burns.

#### Serious eye damage/irritation

Causes serious eye damage.

#### Respiratory or skin sensitisation

Based on the available data, it does not meet the classification criteria.

#### Germ cell mutagenicity

Based on the available data, it does not meet the classification criteria.

#### Carcinogenicity

Based on the available data, it does not meet the classification criteria.

#### Reproductive toxicity

Based on the available data, it does not meet the classification criteria.

#### Toxicity for specific target organ - single exposure

May cause respiratory irritation.

#### Toxicity for specific target organ - repeated exposure

Based on the available data, it does not meet the classification criteria.

#### Aspiration hazard

Based on the available data, it does not meet the classification criteria.

### 11.2. Information on other hazards

not available

## SECTION 12: Ecological information

### 12.1. Toxicity

#### Acute toxicity

### 12.2. Persistence and degradability

not available

### 12.3. Bioaccumulative potential

not available

### 12.4. Mobility in soil

not available

### 12.5. Results of PBT and vPvB assessment

The product/substance does not meet the criteria for persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB) substances.

### 12.6. Endocrine disrupting properties

There is no further relevant information.

### 12.7. Other adverse effects

Do not allow the material to enter living water, watercourses or the ground.

## SECTION 13: Disposal considerations

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### 13.1. Waste treatment methods

Information regarding the disposal of the product: No special recommendation from the manufacturer. Do not empty into drains.

European Waste Code: No appropriate EWC code can be given for the substance, since the identification of the proper code can be done with the method of use defined by the user of the substance. The European waste code number has to be determined after a discussion with a specialist dealing with waste disposal.

Information regarding the disposal of the packaging: Dispose according to the relevant regulations. The uncleaned packaging has to be disposed in the same manner as the substance.

## SECTION 14: Transport information

### 14.1. UN number or ID number

UN 1792

### 14.2. UN proper shipping name

IODINE MONOCHLORIDE, SOLID

### 14.3. Transport hazard class(es)

8 Corrosive substances

### 14.4. Packing group

II - substances presenting medium danger

### 14.5. Environmental hazards

not relevant

### 14.6. Special precautions for user

not available

### 14.7. Maritime transport in bulk according to IMO instruments

Not applicable.

#### Additional information

Hazard identification No.

80

UN number

1792

Classification code

C2

Safety signs

8



#### Air transport - ICAO/IATA

Packaging instructions passenger

Forbidden

Cargo packaging instructions

863

#### Marine transport - IMDG

EmS (emergency plan)

F-A, S-B

## SECTION 15: Regulatory information

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

REGULATION (EC) No. 1907/2006 OF THE EUROPEAN PARLIAMENT AND THE COUNCIL of December 18, 2006 on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH), on the creation of a European Chemicals Agency, on the amendment of Directive 1999/45/EC and repealing Council Regulation (EEC) No. 793/93, Commission Regulation (EC) No. 1488/94, Council Directive 76/769/EEC and Directives 91/155/EEC, 93/67/EEC, 93/105/EG and 2000/21/EG of the commission

REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND THE COUNCIL of December 16, 2008 on the classification, labeling and packaging of substances and mixtures, amending and repealing directives 67/548/EEC and 1999/45/EC and amending Regulation (EC) No. 1907/2006

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### 15.2. Chemical safety assessment

No data is available for the substance.

### SECTION 16: Other information

#### A list of standard risk phrases used in the safety data sheet

H300	Fatal if swallowed.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H335	May cause respiratory irritation.

#### Guidelines for safe handling used in the safety data sheet

P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P264	Wash hands and exposed parts of the body thoroughly after handling.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
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/doctor.
P311	Call a POISON CENTER/doctor.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P405	Store locked up.
P501	Dispose of contents/container to by disposing in a hazardous waste receptacle.

#### Other important information about human health protection

not available

#### Key to abbreviations and acronyms used in the safety data sheet

ADR	European agreement concerning the international carriage of dangerous goods by road
AGW	Occupational Exposure Limits
BCF	Bioconcentration Factor
CAS	Chemical Abstracts Service
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substance and mixtures
EC	Identification code for each substance listed in EINECS
EINECS	European Inventory of Existing Commercial Chemical Substances
EmS	Emergency plan
EU	European Union
EuPCS	European Product Categorisation System
IATA	International Air Transport Association
IBC	International Code For The Construction And Equipment of Ships Carrying Dangerous Chemicals
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
INCI	International Nomenclature of Cosmetic Ingredients
ISO	International Organization for Standardization
IUPAC	International Union of Pure and Applied Chemistry
log Kow	Octanol-water partition coefficient
MAK	Maximum workplace concentration
MARPOL	International Convention for the Prevention of Pollution from Ships
OEL	Occupational Exposure Limits
PBT	Persistent, Bioaccumulative and Toxic
ppm	Parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Agreement on the transport of dangerous goods by rail

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UN	Four-figure identification number of the substance or article taken from the UN Model Regulations
UVCB	Substances of unknown or variable composition, complex reaction products or biological materials
VOC	Volatile organic compounds
vPvB	Very Persistent and very Bioaccumulative

Acute Tox.	Acute toxicity
Skin Corr.	Skin corrosion
STOT SE	Specific target organ toxicity - single exposure

### Training guidelines

not available

### Recommended restrictions of use

not available

### Information about data sources used to compile the Safety Data Sheet

REGULATION (EC) No. 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL (REACH) as amended.  
REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. Data from the manufacturer of the substance / mixture, if available - information from registration dossiers.

### The changes (which information has been added, deleted or modified)

Reason for revision: Following legislative changes.

### Statement

The manufacturer of the safety data sheet and the company supplying the data sheet - without knowing the conditions of use and handling of the product - cannot be held responsible for any unforeseen damage, loss, injury, accident, or similar events resulting from non-standard use. The person performing the activity is obliged to comply with all applicable legal regulations that apply to the activity with the product.