

# Safety Data Sheet

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

Revision Date: 15.08.2022 Version 2

# TEKKİM

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

### 1.1 Product identifier

Catalog No. TK.200800.00000  
Product Name Iodine Resublimed  
Cas no 7553-56-2

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

#### 1.2.1. Relevant identified uses

Industrial use. Use as a laboratory reagent. Scientific research and development.

#### 1.2.2. Uses advised against

No information available.

### 1.3. Details of the supplier of the safety data sheet

Name TEKKİM KİMYA SAN. TİC. LTD. ŞTİ.  
Street ORGANİZE SAN. BÖL. MAVİ CAD. 8. SOK. NO :1 NİLÜFER / BURSA  
Telephone 0224 243 21 71  
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Company Representative Erhan DİLER

**1.4 Emergency Telephone Number +90 506 990 36 86**

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 (CLP)

Acute toxicity, Category 4, Inhalation  
Acute toxicity, Category 4, Dermal  
Skin irritation, Category 2  
Eye irritation, Category 2  
Specific Target Organ Toxicity – Single exposure, Category 3, Respiratory system  
Specific Target Organ Toxicity – Repeated exposure, Category 1, Oral, thyroid  
Short term (acute) aquatic hazard, Category 1

For the full text of the H and EUH statements referred to in this section, see section 16.

### 2.2 Label elements

Labelling according to Regulation (EC) No. 1272/2008 (CLP)

Hazard pictograms



Signal word (SEA)

DANGER

Hazard Statements (SEA)

H312 + H332 Harmful in contact with skin or if inhaled.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H335 May cause respiratory irritation.  
H372 Causes damage to organs through prolonged or repeated exposure. (thyroid)  
H400 Very toxic to aquatic life.

Precautionary Statements (SEA)



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## Prevention

P273 Avoid release to the environment.

## Intervention

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if fitted and easy to do. Continue rinsing.

P314 Get medical advice/attention if you feel unwell.

## SECTION 3: Composition/information on ingredients

Classification according to Regulation (EC) No. 1272/2008 (CLP)

### 3.1 Maddeler

EC No	231-442-4
Molar mass	253.8 g/mol
Cas No	7553-56-2
Concentration	(>= 80 % - <= 100 % )

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

General information	In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).
Following inhalation	Remove to fresh air. Call a doctor. If breathing stops: apply mechanical respiration immediately, with oxygen if necessary.
Following skin contact	Wash with plenty of water. Take off contaminated clothing.
Following eye contact	In case of contact with eyes, rinse eyelids with water for 10-15 minutes. See a doctor immediately.
Following ingestion	Give up to two glasses of water. Get medical help immediately.

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

The most important known symptoms and effects are described in the labelling

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

Laxative : Sodium sulfate (1 tablespoon 250 ml of water..)

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

*Suitable extinguishing media*

Use extinguishing measures appropriate to the environment.

*Unsuitable extinguishing media*

There is no restriction for this item.

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

It is not flammable. All-round fire can release dangerous vapours. Fire may cause evolution of: hydrogen iodide.

### 5.3 Advice for firefighters

*Special protective equipment for firefighters*

Do not stay in dangerous zone without self-contained breathing apparatus. Keep a safe distance to cut off contact with skin and wear suitable protective clothing.

### 5.4 Additional information

Stop and contain spill/release if it can be done safely. If this cannot be done, allow fire to burn under control.

## SECTION 6: Accidental release measures

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

Advice for non-emergency personnel: Don't breathe vapours, aerosols. Avoid substance contact. Keep away from head and source of ignition. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert..



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## 6.2 Environmental precautions

Do not allow to enter into surface water or drains.

## 6.3 Methods and material for containment and cleaning up

Close drainage channels. Take up with liquid-absorbent material. Clean the affected area. Avoid generation of dust..

## 6.4 Reference to other sections

Disposal: see section 13.

## 6.5 Additional information

Clear spills immediately.

## SECTION 7: Handling and Storage

### 7.1 Precautions for safe handling

#### Advices on safe handling

Pay attention to the precautions on the label. Work with the title. Do not inhale the substance. Avoid the formation of dust.

#### Advices on general occupational hygiene

Change contaminated clothing. Wash hands after working with substance. It is recommended to use a skin protection cream.

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

#### Storage conditions

Keep container tightly closed in dry and well-ventilated places.

### 7.3 Specific end uses

There are no other specific uses other than those mentioned in section 1.2.

## SECTION 8: Exposure controls / personal protection

### 8.1 Control parameters

Iodine (7553-56-2)

EN MAK	Acceptable maximum concentration (MAK)	0,1 mbp 1 mg/m <sup>3</sup>
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### 8.2 Exposure controls

#### Appropriate engineering controls

More attention should be paid to technical measures against the use of personal protective equipment.

#### Personal protection equipment

##### Eye/face protection

Safety glasses

##### Hand protection

Hand protection

##### Full contact

Glove material : Nitrile rubber

Glove thickness : 0,11 mm

Break through time : >480 minute

##### Splash contact

Glove material : Nitrile rubber

Glove thickness : 0,11 mm

Break through time : >480 minute

The protective gloves to be used must comply with the specifications of directive 89/686/EEC and the related standart EN374.

#### Other skin protection



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Protective clothing.

*Respiratory protection*

Required when dusts occur.

Recommended Filter type: Filter B-(P2).

## SECTION 9: Physical and chemical Properties

### 9.1 Information on basic physical and chemical properties

Physical state	Solid
Colour	Dark violet
Odour	Angle
Odour threshold	No information.
pH value	5.0 - 5.5 (saturated solution)
Melting point/freezing point	114 °C
Freezing point	No information.
Initial boiling point and boiling range	185 °C 1.013 hPa
Flash point	No information.
Evaporation rate	No information.
Flammability (solid, gas)	It is not flammable.
Upper/lower flammability or explosive limits	Not applicable.
Upper/lower flammability or explosive limits	Not applicable.
Vapour pressure	0.41 hPa 25 °C
Vapour density	8.8
Density	4.93 g/cm <sup>3</sup> 20 °C
Relative density	No information.
Water solubility (g/l)	0.3 g/l 20 °C
Fat solubility (g/l)	No information.
Partition coefficient: n-octanol/water	log Pow: 2.49 (experimental) Bioaccumulation is not expected. (Source)
Auto-ignition temperature	No information.
Decomposition temperature	No information.
Viscosity	
Kinematic viscosity	0.55 mm <sup>2</sup> /s 110 °C
Dynamic viscosity	2.25 mPa.s 110 °C
Explosive properties	Not classified as explosive.
Oxidising properties	none

## SECTION 10: Stability and Reactivity

### 10.1 Reactivity

Section 10.3 to see.

### 10.2 Chemical stability

It can sublime.

### 10.3 Possibility of hazardous reactions

Risk of explosion with reducing compounds, alkali metals, acetylene, ammonia, potassium, copper compounds, sodium, oxyhalogenic compounds, boron, halogen oxides, iodides, azides, ammonium compounds. Powdered metals, zinc, semimetals, halogen-halogen compounds, nonmetals, nonmetal oxides, alkali salts, iron, fluorine, formaldehyde, hydrides, sodium phosphide, phosphorus, sulfur, titanium, powdered aluminum, combustible materials, powdered magnesium, gasoline (petroleum ) there is a risk of explosion or formation of flammable gases or vapors.

It can react exothermically with azides, alkali oxides, lithium silicide, alkaline earth compounds, nitrides, acetaldehyde, lithium, fluorides, phosphorus oxides, chlorine.

### 10.4 Conditions to avoid

No information available.

### 10.5 Incompatible materials

No information available.



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## 10.6 Hazardous decomposition products


No known hazardous decomposition products.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects



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Acute oral toxicity  
LD50 Rat: 315 mg/kg  
(ECHA)  
LD50 Rat: 14,000 mg/kg  
(RTECS)  
Symptoms: metal taste, bloody diarrhoea, Circulatory collapse

Acute inhalation toxicity  
Symptoms: mucosal irritations, Cough, Shortness of breath, Possible damages:, damage of respiratory tract

Acute dermal toxicity  
LD50 Rabbit: 1.425 mg/kg  
US-EPA

Skin irritation  
In vitro study  
Result: non-corrosive  
OECD Test Guideline 435  
In vitro study  
Result: irritations  
OECD Test Guideline 439  
Causes skin irritation.  
Possible damages: Dermatitis, skin burning

Eye irritation  
Causes serious eye irritation.

Specific Target Organ Toxicity - Single exposure  
May cause respiratory tract irritation.  
Routes of exposure: If inhaled  
Target Organs: Respiratory system

Specific Target Organ Toxicity - Repeated exposure  
Causes damage to organs through prolonged or repeated exposure.  
Routes of exposure: If swallowed  
Target Organs: thyroid

Repeated dose toxicity  
Rat  
female  
Oral  
100g  
Diary  
NOAEL: 3 mg/l  
LOAEL: 10 mg/l  
OECD Directive 408  
Target Organs: thyroid  
(as an aqueous solution)


Rat  
male and female  
Oral  
29 - 47 g  
Diary  
NOAEL: 10 mg/kg  
OECD Guideline 422

## 11.2 Additional information

Handle in accordance with good industrial hygiene and safety practice.



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## SECTION 12: Ecological information

### 12.1 Toxicity

Toxicity to fish

static test LC50 Oncorhynchus mykiss (Rainbow trout): 1.67 mg/l; 96 h (ECHA)

Toxicity to daphnia and other aquatic invertebrates

static test EC50 Daphnia magna (Water flea): 0.55 mg/l; 48 hours (ECHA)

Toxicity to algae (algae)

Growth inhibition (inhibition) ErC50 Desmodesmus subspicatus (green algae): 0.13 mg/l; 72 hours OECD Test Guideline 201

Toxicity to bacteria

EC50 active waste: 280 mg/l; 3 hours

OECD Test Guideline OECD 209

### 12.2 Persistence and degradability

Methods for measuring biological degradation cannot be applied to inorganic substances.

### 12.3 Bioaccumulative potential

Partition coefficient (n-octanol/water)

log Pow: 2.49

(experimental)

Bioaccumulation is not expected. (Source)

### 12.4 Mobility in soil

No information available.

### 12.5 Results of PBT and vPvB assessment

Substance does not meet the criteria for PBT or vPvB.

### 12.6 Other adverse effects

Discharge into environment must be avoided.

## SECTION 13: Disposal considerations

### Waste treatment methods

It must be disposed of in accordance with national and local regulations. Do not mix with other products. Uncleaned Treat packages as if it were the product itself ... Waste materials must be disposed of in accordance with national and local regulations.

## SECTION 14: Transport information

ADR	IMDG	IATA	ADN	RID
<b>14.1 UN number</b>				
UN 3495	UN 3495	UN 3495	UN 3495	UN 3495
<b>14.2 UN proper shipping name</b>				
IODINE	IODINE	IODINE	IODINE	IODINE
<b>14.3 Transport hazard class(es)</b>				
8(6.1)	8(6.1)	8(6.1)	8(6.1)	8(6.1)



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## 14.4 Packing group

III III III III III

## 14.5 Environmental hazards

YES YES YES YES YES

No information available. No information available. No information available. No information available. No information available.

## 14.6 Special Precautions for User:

No information available.

## SECTION 15: Regulatory information

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

This product safety data sheet complies with the requirements of EU Regulation 1907/2006.

### 15.2 Chemical Safety Assessment

A Chemical Safety Assessment has not been conducted for this substance.

## SECTION 16: Other informations

### Full text of H statements

H312 + H332 Harmful in contact with skin or if inhaled.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H335 May cause respiratory irritation.  
H372 Causes damage to organs through prolonged or repeated exposure. (thyroid)  
H400 Very toxic to aquatic life.

Person Who Prepared the Safety Data Sheet:

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Certificate Number and Date: 11.29.03 & 11 Şubat 2020  
Communication information: 05069903686



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