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



Revision Date: 15.08.2022 Version 2

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

1.1 Product identifier

Catalog No. TK.200800.00000
Product Name lodine 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

E-mail erhan@tekkim.com.tr

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 Eve 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.

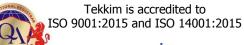
H372 Causes damage to organs through prolonged or repeated exposure. (thyroid)

H400 Very toxic to aquatic life.

Precautionary Statements (SEA)







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

Revision Date: 15.08.2022 Version 2



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...

Revision Date: 15.08.2022

Version 2

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

lodine (7553-56-2)

EN MAK Acceptable 0,1 mbp maximum 1 mg/m3

concentration (MAK)

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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TEKKIM

Protective chlothing.

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 Colour Dark violet Odour Angle

Odour threshold No information.

pH value 5.0 - 5.5 (saturated solution)

Revision Date: 15.08.2022

185 °C 1.013 hPa No information.

It is not flammable.

4.93 g/cm3 20 °C

20 °C

not expected. (Source)

0.55 mm2/s 110 °C

2.25 mPa.s 110 °C

Not classified as explosive.

log Pow: 2.49 (experimental) Bioaccumulation is

No information.

No information.

No information.

No information.

No information.

Not applicable.

Not applicable. 0.41 hPa 25 °C

8.8

 $0.3 \, g/l$

Version 2

114 °C Melting point/freezing point No information.

Freezing point

Initial boiling point and boiling range

Flash point Evaporation rate

Flammability (solid, gas)

Upper/lower flammability or explosive limits Upper/lower flammability or explosive limits

Vapour pressure Vapour density Density

Relative density Water solubility (q/l) Fat solubility (q/l)

Partition coefficient: n-octanol/water

Auto-ignition temperature Decomposition temperature

Viscosity

Kinematic viscosity Dynamic viscosity Explosive properties

Oxidising properties **SECTION 10: Stability and Reactivity**

10.1 Reactivity Section 10.3 to see.

10.2 Chemical stability

It can sublimate.

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

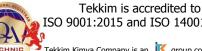
No information available.

10.5 Incompatible materials

No information available.







ISO 9001:2015 and ISO 14001:2015

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

Revision Date: 15.08.2022 Version 2



10.6 Hazardous decomposition products

No known hazardous decomposition products.

SECTION 11: Toxicological information

11.1 Information on toxicological effects







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



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

Revision Date: 15.08.2022

Version 2

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

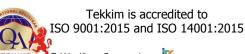
NOAEL: 10 mg/kg OECD Guideline 422

11.2 Additional information

Handle in accordance with good industrial hygiene and safety practice.







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Revision Date: 15.08.2022 Version 2

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 informa

14.3 Transport hazard class(es)

8(6.1) 8(6.1) 8(6.1) 8(6.1)

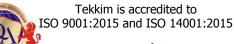












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Revision Date: 15.08.2022 Version 2

14.4 Packing group

III III III III III

14.5 Environmental hazards

YES 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 eve 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:

Name:

Certificate Number and Date: Erhan DİLER

Communication information: 11.29.03 & 11 Şubat 2020

05069903686





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