

Safety Data Sheet

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

Revision Date: 10.08.2022 Version 2

TEKKİM

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

1.1 Product identifier

Catalog No. TK.190612.00000
Product Name Thiourea
Cas no 62-56-6

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

1.2.1. Relevant identified uses

Use as a laboratory reagent.

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, Oral, Category 4
Carcinogenicity, Category 2
Reproductive toxicity, Category 2
Long (chronic) aquatic hazard, Category 2

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)

WARNING

Hazard Statements (SEA)

H302 Harmful if swallowed.
H351 Suspected of causing cancer.
H361 Suspected of damaging fertility or the unborn child.
H411 Toxic to aquatic life with long lasting effects.

Precautionary Statements (SEA)



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Prevention

- P201 Read special instructions before use.
P202 Do not handle until all precautionary statements have been read and understood.
P264 Wash skin thoroughly after handling.
P273 Avoid release to the environment.

Intervention

- P301+P312 IF SWALLOWED: Call 114 POISON CENTER or doctor/physician if you feel unwell.
P308+P313 IF exposed and concerned: Get medical advice/attention.

SECTION 3: Composition/information on ingredients

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

3.1 Maddeler

EC No	200-543-5
Molar mass	76.12 g/mol
Cas No	62-56-6
Concentration	(<= 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 casualty to fresh air and keep warm and at rest..
Following skin contact	Wash with plenty of water. Take off contaminated clothing.
Following eye contact	In case of contact with eyes, rinse immediately with plenty of water and consult an ophthalmologist.
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

No information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water. Foam. Dry extinguishing powder. Carbon dioxide (CO2).

Unsuitable extinguishing media

There is no restriction for this item.

5.2 Special hazards arising from the substance or mixture

May form free in case of fire: oxides of sulfur, oxides of nitrogen, nitrogenous gases. Flammable. In case of fire, dangerous flammable gases or vapors may develop.

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

Contains no substances with occupational exposure limit values.

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

Protective chlothing.

Respiratory protection



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Required when dusts occur.
Recommended Filter type: Filter B-(P3).

SECTION 9: Physical and chemical Properties

9.1 Information on basic physical and chemical properties

Physical state	Solid
Colour	Colorless
Odour	Odorless
Odour threshold	Not applicable.
pH value	5 - 7 50 g/l 20 °C
Melting point/freezing point	169 - 178 °C
Freezing point	No information.
Initial boiling point and boiling range	Not applicable.
Flash point	No information.
Evaporation rate	No information.
Flammability (solid, gas)	No information.
Upper/lower flammability or explosive limits	Not applicable.
Upper/lower flammability or explosive limits	Not applicable.
Vapour pressure	Not applicable.
Vapour density	No information.
Density	1,405 g/cm ³ 20 °C
Relative density	No information.
Water solubility (g/l)	137 g/l 20 °C
Fat solubility (g/l)	No information.
Partition coefficient: n-octanol/water	log Pow: -0.92 (20 °C) OECD Test Guideline 107 Bioaccumulation is not expected.
Auto-ignition temperature	440 °C Powder
Decomposition temperature	No information.
Viscosity	
Kinematic viscosity	No information.
Dynamic viscosity	No information.
Explosive properties	Not classified as explosive.
Oxidising properties	none

SECTION 10: Stability and Reactivity

10.1 Reactivity

There is a risk of dust explosion.

10.2 Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3 Possibility of hazardous reactions

There is a risk of explosion with chlorates.

It can react exothermically with strong oxidizing agents, strong acids and strong bases, hydrogen peroxide, nitric acid.

10.4 Conditions to avoid

No information available.

10.5 Incompatible materials

No information available.

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 Oral - Rat - female - 2.000 - 2.500 mg/kg
(OECD Test Guideline 423)

Acute inhalation toxicity
LC50 Inhalation - Rat - male and female - 4 h - > 195 mg/l
(OECD Test Guideline 403)

Acute dermal toxicity
LD50 Dermal - Rabbit - male and female - > 2,800 mg/kg
(OECD Test Guideline 402)

Eye irritation
Rabbit
Result: slight irritation
OECD Test Guideline 405

Sensitivity
Affected people may be sensitized.

CMR effects
Carcinogenicity:
It is suspected of causing cancer.
Teratogenicity (may cause developmental disabilities)
Suspected of causing damage to the unborn child.

11.2 Additional information

After absorption:
There may be changes in the blood structure.
Handle in accordance with safety and hygiene rules.

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish
tatic test LC50 - Pimephales promelas (Carp calf) - > 600 mg/l - 96 h
Notes: (ECHA)

Toxicity to daphnia and other aquatic invertebrates
EC50 - Daphnia magna (Water flea) - 5.6 - 18.0 mg/l - 48 h

Toxicity to algae (algae)
IC50 Desmodesmus subspicatus (green algae): 3.8 - 10 mg/l; 72 hours
(IUCLID)

Toxicity to bacteria
EC10 Pseudomonas putida: 1.265 mg/l; 18 h
(IUCLID)

12.2 Persistence and degradability

Biodegradability
oxygenated (aerobic) - Exposure time 34 d
Result: 0 % - Not easily degraded.
(OECD Test Guideline 301 C)

Biochemical Oxygen Demand (BOD)
13mg/g
(IUCLID)

12.3 Bioaccumulative potential



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Partition coefficient (n-octanol/water)
log Pow: -0.92 (20 °C)
OECD Test Guideline 107
Bioaccumulation is not expected.

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
14.1 UN number UN 3077	UN 3077	UN 3077	UN 3077	UN 3077
14.2 UN proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Thiourea)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Thiourea)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Thiourea)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Thiourea)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Thiourea)
14.3 Transport hazard class(es) 9	9	9	9	9
				
14.4 Packing group III	III	III	III	III
14.5 Environmental hazards YES	YES	YES	YES	YES
Packages less than 5 kg/l or equivalent, non-hazardous goods of Class 9	Packages less than 5 kg/l or equivalent, non-hazardous goods of Class 9	Packages less than 5 kg/l or equivalent, non-hazardous goods of Class 9	Packages less than 5 kg/l or equivalent, non-hazardous goods of Class 9	Packages less than 5 kg/l or equivalent, non-hazardous goods of Class 9

14.6 Special Precautions for User:

Packages less than 5 kg/l or equivalent, non-hazardous goods of Class 9

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



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Full text of H statements

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H351 Suspected of causing cancer.
H361 Suspected of damaging fertility or the unborn child.
H411 Toxic to aquatic life with long lasting effects.

Person Who Prepared the Safety Data Sheet:

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



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