



Safety Data Sheet According to Regulation (EC) 1907/2006

1743 Thiourea

1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Name:

Thiourea

Synonym:

Sulphourea, Thiocarbamide

CAS: [62-56-6]

REACH Registration Number: A registration number is not available for this substance as the substance or its use are exempted from registration according to Article 2 REACH Regulation (EC) N° 1907/2006, the annual tonnage does not require a registration, the registration is envisaged for a later registration deadline or it is a mixture.

1.2 Relevant identified uses of the substance or mixture:

For laboratory utilisation, analysis, research and fine chemistry.

1.3 Identification of the company or firm:

PANREAC QUIMICA S.L.U.

C/Garraf 2

Polígono Pla de la Bruguera

E-08211 Castellar del Vallès

(Barcelona) Spain

Tel. (+34) 937 489 400

e-mail: product.safety@panreac.com

1.4 Emergency telephone:

Single telephone number for emergency calls: 112 (EU)

Tel.: (+34) 937 489 499

2. Identification of dangers

2.1 Classification of the substance or the mixture.

Classification Regulation (CE) n° 1272/2008.

Acute Tox. 4

Carc. 2

Aquatic Chronic 2

Repr. 2

Classification (67/548/CEE or 1999/45/CE).

N Dangerous for the environment
Xn Harmful

R63
R51/53
R40
R22

2.2 Label elements:

Hazard Pictograms



Signal word

Warning

Hazard statements

H302 Harmful if swallowed.
H351 Suspected of causing cancer.
H411 Toxic to aquatic life with long lasting effects.
H361d Suspected of damaging the unborn child.

Precautionary statements

P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P264 Wash...thoroughly after handling.
P270 Do no eat, drink or smoke when using this product.
P273 Avoid release to the environment.
P281 Use personal protective equipment as required.

For the full text of the R-phrases mentioned in this section, see section 16.

2.3 Other hazards:

No further relevant information available.

3. Composition/information on ingredients

Name: Thiourea
Formula: $\text{SC}(\text{NH}_2)_2$ M.= 76,12 CAS [62-56-6]
EC number (EINECS): 200-543-5
EC index number: 612-082-00-0

4. First aid measures

4.1 General indications:

Never provide drink or induce vomiting in the event of loss of consciousness.

4.2 Inhaling:

Take the person out into the fresh air. In the event sickness persists, seek medical assistance.

4.3 Contact with the skin:

Wash with plenty of water. Remove contaminated clothing.

4.4 Eyes:

Wash with plenty of water, keeping eyelids open.

4.5 Swallowing:

Drink large amounts of water. Induce vomiting. Call for medical help. Stomach lavage.

5. Firefighting measures

5.1 Suitable extinguishing media:

Water. Alcohol resistant foam. Dry powder.

5.2 Unsuitable extinguishing media:

No specific data.

5.3 Special hazards arising from the substance or mixture:

Flammable. Keep away from sources of ignition. In the event of fire, toxic fumes may form: SO_x,NO_x. Precipitate fumes formed with water.

5.4 Advice for firefighters:

Suitable clothing and footwear.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

Do not inhale the dust.

6.2 Environmental precautions:

Avoid pollution of the soil, water supplies and drains.

6.3 Methods and material for containment and cleaning up:

Collect up dry and deposit in waste containers for subsequent elimination in accordance with current legislation. Clean any remains with plenty of water.

7. Handling and storage

7.1 Precautions for safe handling:

No special indications.

7.2 Conditions for safe storage, including any incompatibilities:

Well sealed containers.

Recommended storage temperature: Room temperature. Dry atmosphere.

8. Exposure controls/personal protection

8.1 Exposure controls:

No special indications.

8.2 Control parameters:**8.3 Respiratory protection:**

If dust forms, use suitable respiratory protection.

8.4 Hand protection:

Use suitable gloves

8.5 Eye/face protection:

Use suitable goggles.

8.6 Individual hygiene measures:

Remove contaminated clothing. Wash hands before breaks and when the job is done. Use suitable work clothing.

8.7 Environmental exposure controls:

Fulfill the commitments under local environmental protection legislation.

9. Physical and chemical properties

Appearance: solid

Colour: White

Granulometry: N/A

Odour: Odourless.

pH: 5 - 7 ((50 g/l))

Melting point/freezing point: 176 °C

Initial boiling point and boiling range:

N/A

Flash point:

N/A

Flammability (solid, gas):

N/A

Upper/lower flammability or explosive limits:

N/A

Vapour pressure: 0,0001 hPa (20 °C)

Vapour density: N/A

Relative density:

Insertar Aquí Grupo de repetición

1,41 g/ml

Solubility: 180 g/l in water (20 °C)

Partition coefficient: n-octanol/water:

N/A

Auto-ignition temperature: 440 °C

Decomposition temperature: N/A

Kinematic viscosity: N/A

Dynamic viscosity:

N/A

10. Stability and reactivity

10.1 Conditions to avoid:

The product is chemically stable under standar ambient conditions (room temperature).

10.2 Incompatible materials:

Oxidant agents. Nitric acid. Hydrogen peroxide.

10.3 Hazardous decomposition products:

Sulphur dioxide.

10.4 Chemical stability:

No specific data.

11. Toxicological information

11.1 Acute toxicity:

TDL0 oral rat : 240 mg/kg

LD L0 oral rbt : 6.985 mg/kg

LD50 oral rat : 125 mg/kg

LD50 ipr mus : 100 mg/kg

11.2 Dangerous effects for health:

Through contact with the eyes: Irritations to the mucosae If swallowed: nausea vomiting diarrhoea May cause: allergic reaction sensitization If it is absorbed in large quantities: pulmonary oedema Chronic effects blood alterations alterations of the metabolism Other dangerous characteristics are not discarded. Take the usual precautions for handling chemical products.

12. Environmental information

12.1 Toxicity:

- EC50 test (mg/l):

Crustaceans (Daphnia magna) 110 mg/l

Classification:

Highly toxic

Fish (Leuciscus Idus) 10000 mg/l

Classification:

Hardly toxic.

Fish (P. promelas) >100 mg/l

Classification:

Toxic

Fish (B.rerio) 10000 mg/l

Classification:

Toxic

- Receptor medium:

Risk for the water environment

Low

Risk for the land environment

Low

- Observations:

12.2 Persistence and Degradability :

- Test:

BOD5 = 0,013-0,075 g/g

ThOD = 2,52 g/g

DOC = 0,84 g/g

- Biotic degradation classification:

BOD5/COD

Biodegradability

Medium, between 1/3 and 1/10

- Abiotic degradation depending on pH:

- Observations:

12.3 Bioaccumulative potential:

- Test:

- Bioaccumulation:

Risk

- Observations:

Non-bioaccumulable product.

12.4 Mobility in soil :

Repartition: $\log P(\text{oct}) = -0,92$

12.5 Assessment PBT and MPMB :

Data not available.

12.6 Other adverse effects:

Water-pollutant product.

Do not allow it to enter soils or water channels.

13. Disposal considerations

13.1 Waste treatment methods:

In the European Union, there are no homogeneous standards established for elimination of chemical waste, which is waste of a special nature, and treatment and elimination of same is subject to the domestic legislation in each country.

In view of this, in each case, you should contact the competent authority or those companies legally authorized for elimination of waste.

2001/573/EC: Council Decision of 23 July 2001 amending Commission Decision 2000/532/EC as regards the list of wastes. Council Directive 91/156/EEC of 18 March 1991 amending Directive 75/442/EEC on waste.

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13.2 Contaminated containers:

Contaminated containers and packaging of dangerous substances or preparations must be treated in the same manner as the actual products contained in them.

European Parliament and Council Directive 94/62/EC of 20 December 1994 on packaging and packaging waste.

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14. Transport information

Overland (ADR):

Technical name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

UN 3077 Class: 9 CONTAM. MAR PELIG.M.AMB Packaging group: III (E)

By sea (IMDG):

Technical name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

UN 3077 Class: 9 CONTAM. MAR PELIG.M.AMB Packaging group: III

By air (ICAI-IATA):

Technical name: Environmentally hazardous substance, solid, n.o.s

UN 3077 Class: 9 CONTAM. MAR PELIG.M.AMB Packaging group: III

Packaging instructions: CAO 956 PAX 956

15. Regulatory information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

16. Other information

Other precautionary statements

P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

P308+P313 IF exposed or concerned: Get medical advice/attention.

P330 Rinse mouth.

P391 Collect spillage.

P405 Store locked up.

P501 Dispose of contents/container according to Directive 94/62/CE or 2008/98/CE.

Labelling (65/548/CEE or 1999/45/CE)

R-phrase(s): **R63** Possible risk of harm to the unborn child.
R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R40 Limited evidence of a carcinogenic effect.
R22 Harmful if swallowed.

S-phrase(s): **S61** Avoid release to the environment. Refer to special instructions/safety data sheets.
S36/37 Wear suitable protective clothing and gloves.

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In respect of the previous review, changes have been made to the following sections: 14

The information included in this Safety Data Sheet is based on our most up-to-date knowledge, and is solely intended to inform regarding aspects of safety; the properties and characteristics indicated herein are not guaranteed.