



## Safety Data Sheet

According to Regulation (EC) 1907/2006



2366 Thiosemicarbazide

# Identification of the substance/preparation and of the company or firm

## 1.1 Identification of the substance or preparation

Name:

Thiosemicarbazide

**Synonym:**

Hydrazinecarbothioamide

**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 Use of the substance/preparation:

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](mailto:product.safety@panreac.com)

#### 1.4 Emergency telephone:

Single telephone number for emergency calls: 112 (EU)

Tel.: (+34) 937 489 499

## Identification of dangers

Classification of the substance or the mixture.

**Classification Regulation (CE) n° 1272/2008.**

Acute Tox. 2

#### Hazard Pictograms



#### Signal word

Danger

#### Hazard statements

H300 Fatal if swallowed.

#### Precautionary statements

P264 Wash...thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

P321 Specific treatment (see on this label).

P330 Rinse mouth.

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

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

T+ Very

R28

toxic

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

## Component Composition/Information

Name: Thiosemicarbazide

Formula:  $\text{NH}_2\text{CSNHNH}_2$  M.= 91,14 CAS [79-19-6]

EC number (EINECS): 201-184-7

## First aid

#### 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 of suffocation, proceed immediately to provide artificial respiration. Seek immediate 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. In the event of irritation, seek medical assistance.

#### **4.5 Swallowing:**

Drink large amounts of water. Induce vomiting. Seek immediate medical assistance.

## **Fire-fighting means**

#### **5.1 Suitable fire-extinguishing means:**

Water. Foam. Dry powder.

#### **5.2 Fire-fighting means which must NOT be used:**

No specific data.

#### **5.3 Special risks:**

Flammable. Keep away from sources of ignition. In the event of fire, toxic fumes may form: SO<sub>x</sub>,NO<sub>x</sub>.

#### **5.4 Protective equipment:**

Suitable clothing and footwear.

## **Measures to be taken in the event of accidental spillage**

#### **6.1 Individual precautions:**

Do not inhale the dust. Avoid contact with the skin, eyes or clothing.

#### **6.2 Precautions for care of the environment:**

Avoid pollution of the soil, water supplies and drains.

#### **6.3 Methods for collection/cleaning:**

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

## **Handling and storage**

#### **7.1 Handling:**

No special indications.

**7.2 Storage:**

Well sealed containers. In well ventilated premises. Restricted access, only authorized to technicians.

## Staff exposure/protection controls

**8.1 Technical protective measures:**

No special indications.

**8.2 Exposure limit control:**

: Data not available.

**8.3 Respiratory protection:**

If dust forms, use suitable respiratory protection.

**8.4 Hand protection:**

Use suitable gloves

**8.5 Eye 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. Do not eat, drink or smoke in the workplace.

**8.7 Environmental exposure controls:**

Fulfill the commitments under local environmental protection legislation.

## Physical and chemical properties

Appearance: solid

Colour: White

Granulometry: N/A

Odour: Odourless.

pH: 5 - 7 (50 g/l)

Melting point/freezing point: 183 °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: N/A

Vapour density: N/A
Relative density: N/A
Solubility: 203 g/l in water80 °C
Partition coefficient: n-octanol/water: N/A
Auto-ignition temperature: N/A
Decomposition temperature: above178 °C
Viscosity: N/A

## Stability and reactivity

### 10.1 Conditions which should be avoided:

High temperatures.

### 10.2 Matter which should be avoided:

Strong acids. Strong bases.

### 10.3 Hazardous decomposition products:

No specific data.

### 10.4 Complementary information:

Heat sensitive.

## Toxicological information

- **Acute toxicity:**

TDL0 oral rat : 1.024 mg/kg

LD50 oral rat : 13 mg/kg

LD50 ipr mus : 1 mg/kg

- **Dangerous effects for health:**

If dust inhaled: Irritations to the respiratory tracts. Through contact with the eyes: irritations Upon contact with the skin: irritations If swallowed: nausea vomiting gastro-intestinal disorders Systemic effects: effects on the central nervous system cardiovascular disorders Other dangerous characteristics are not discarded. Take the usual precautions for handling chemical products.

# Environmental information

## 12.1 Toxicity:

12.1.1 - EC50 test (mg/l):

12.1.2. - Receptor medium:

Risk for the water environment

Risk for the land environment

12.1.3. - Observations:

Ecotoxic data not available.

## 12.2 Persistence and Degradability :

12.2.1 - Test:

BOD5

12.2.2. - Biotic degradation classification:

BOD5/COD

Biodegradability

12.2.3. - Abiotic degradation depending on pH:

12.2.4. - Observations:

Data not available.

## 12.3 Bioaccumulative potential:

12.3.1. - Test:

12.3.2. - Bioaccumulation:

Risk

12.3.3. - Observations:

Data not available.

## 12.4 Mobility in soil :

Data not available.

## 12.5 Assessment PBT and MPMB :

Data not available.

## 12.6 Other possible effects on the environment:

Environmental risks cannot be excluded if used and/or disposed of inappropriately.

Do not allow it to enter soils or water channels.

# Considerations regarding elimination

### **13.1 Substance or preparation:**

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.

### **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.

## **Information concerning transport**

Overland (ADR):

Technical name: TOXIC SOLID, ORGANIC, N.O.S.

UN 2811 Class: 6.1 Packaging group: II (D/E)

By sea (IMDG):

Technical name: TOXIC SOLID, ORGANIC, N.O.S.

UN 2811 Class: 6.1 Packaging group: II

By air (ICAI-IATA):

Technical name: Toxic solid, organic, n.o.s.

UN 2811 Class: 6.1 Packaging group: II

Packaging instructions: CAO 676 PAX 669

## **Regulatory information**

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

## **Other information**

### **Other precautionary statements**

P405 Store locked up.

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

R-phrase(s):	<b>R28</b> Very toxic if swallowed.
S-phrase(s):	<b>S45</b> In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

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In respect of the previous review, changes have been made to the following sections: 15

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.