

Trade name: Natrii thiocyanate purum

Substance number: 066685

Version: 3 / CH

Date revised: 03.08.2016

Replaces Version: 2 / CH

Print date: 03.08.16

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

1.1. Product identifier

Natrii thiocyanate purum

Item No. 06668500

1.3. Details of the supplier of the safety data sheet

Address

Hänseler AG

Industriestrasse 35

9101 Herisau

Telephone no. 0041 (0)71 353 58 58

E-mail address of sdb@haenseler.ch

person responsible
for this SDS

1.4. Emergency telephone number

Switzerland :145 / Abroad +41 (0)44 251 51 51

SECTION 2: Hazards identification ***

2.1. Classification of the substance or mixture

Classification (Regulation (EC) No. 1272/2008)

Classification (Regulation (EC) No. 1272/2008)

Aquatic Chronic 3 H412

Eye Irrit. 2 H319

Acute Tox. 4 H302

Acute Tox. 4 H312

Acute Tox. 4 H332

The product is classified and labelled in accordance with Regulation (EC) No 1272/2008

For explanation of abbreviations see section 16.

2.2. Label elements

Labelling according to regulation (EC) No 1272/2008

Hazard pictograms



Signal word

Warning

Hazard statements ***

H412 Harmful to aquatic life with long lasting effects.

H319 Causes serious eye irritation.

H302+H312+H332 Harmful if swallowed, in contact with skin or if inhaled

EUH032 Contact with acids liberates very toxic gas.

Precautionary statements ***

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

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P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

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

P501.3 Disposal in compliance with local and national regulations.

Hazardous component(s) to be indicated on label (Regulation (EC) No. 1272/2008)

contains sodium thiocyanate

SECTION 3: Composition/information on ingredients *****Molecular weight**

Value	81.07	g/mol
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Hazardous ingredients (Regulation (EC) No. 1272/2008) *****sodium thiocyanate**

CAS No.	540-72-7	
EINECS no.	208-754-4	
Concentration	>= 55	%
Classification (Regulation (EC) No. 1272/2008)		
	Acute Tox. 4	H302
	Acute Tox. 4	H312
	Eye Irrit. 2	H319
	Acute Tox. 4	H332
	Aquatic Chronic 3	H412

SECTION 4: First aid measures**4.1. Description of first aid measures****After inhalation**

Ensure supply of fresh air. In case of respiratory arrest induce breathing with a respiratory device. Seek medical advice. If necessary, give oxygen

After skin contact

After contact with skin, wash immediately with plenty of water. Remove contaminated, soaked clothing immediately and dispose of safely. Summon a doctor immediately.

After eye contact

Separate eyelids, wash the eyes thoroughly with water (15 min.). In case of irritation consult an oculist.

After ingestion

Let plenty of water be drunk in small gulps. Call in a physician immediately and show him the Safety Data Sheet.

SECTION 5: Firefighting measures**5.1. Extinguishing media****Suitable extinguishing media**

Water, Carbon dioxide, Foam, Dry powder

5.2. Special hazards arising from the substance or mixture

The product is not combustible. If a fire breaks out nearby evolution of dangerous gases possible. In the event of fire the following can be released: Sulfuroxides (SOx); Hydrogen cyanide (HCN); Nitrogen oxides (NOx)

5.3. Advice for firefighters

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Special protective equipment for fire-fighting

Use self-contained breathing apparatus. Wear protective clothing.

Other information

Suppress vapours with water spray jet. Do not discharge into surface waters/groundwater. Collect contaminated fire-fighting water separately, must not be discharged into the drains.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

Avoid contact with skin, eyes and clothing. Avoid dust formation. Do not inhale dust. Ensure supply of fresh air.

6.2. Environmental precautions

Do not empty into drains.

6.3. Methods and material for containment and cleaning up

Pick up mechanically. Send in suitable containers for recovery or disposal. Clean up affected area.

SECTION 7: Handling and storage**7.1. Precautions for safe handling****Advice on safe handling**

No special requirements.

7.2. Conditions for safe storage, including any incompatibilities**Further information on storage conditions**

Keep container tightly closed and dry.

SECTION 8: Exposure controls/personal protection**8.2. Exposure controls****General protective and hygiene measures**

Remove contaminated, soaked clothing immediately and dispose of safely. Wash hands before breaks and after work. Preventative skin protection.

Respiratory protection

Breathing apparatus in the event of aerosol. Particle filter P2

Hand protectionGloves
Appropriate Material nitrile**Eye protection**

necessary

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties****Form** crystalline**Colour** white**Odour** odourless**pH value**Value 5 to 9
Concentration/H₂O 50 g/l

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Melting point

Value 308 °C

Flash pointValue °C
Remarks Not applicable**Vapour pressure**

Remarks Not applicable

DensityValue 1.726 g/cm³**Solubility in water**Value 1250 g/l
Temperature 20 °C**Explosive properties**

evaluation no

9.2. Other information**Bulk density**Value 700 to 800 kg/m³**SECTION 10: Stability and reactivity****10.4. Conditions to avoid**

Protect from heat/overheating.

10.5. Incompatible materials

Explosive, Nitrites, Strong oxidising agents, Acids

SECTION 11: Toxicological information *****11.1. Information on toxicological effects****Acute oral toxicity**ATE 541 mg/kg
Method calculated value (Regulation (EC) No. 1272/2008)**Acute oral toxicity (Components)****sodium thiocyanate**Species quail
LD50 541 mg/kg
Method OECD 401**Acute dermal toxicity**ATE 1'100 mg/kg
Method calculated value (Regulation (EC) No. 1272/2008)**Acute inhalational toxicity**ATE 11 mg/l
Administration/Form Vapors
Method calculated value (Regulation (EC) No. 1272/2008)
ATE 1.5 mg/l
Administration/Form Dust/Mist
Method calculated value (Regulation (EC) No. 1272/2008)**Skin corrosion/irritation (Components)****sodium thiocyanate**

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evaluation non-irritant

Serious eye damage/irritation (Components)**sodium thiocyanate**Species rabbit
evaluation irritant - risk of serious damage to eyes**Sensitization (Components)****sodium thiocyanate**Species mouse
evaluation non-sensitizing
Method OECD 429**Mutagenicity (Components)****sodium thiocyanate**

evaluation No mutagenicity in the Ames-test.

Reproduction toxicity (Components)**sodium thiocyanate**

Remarks Not documented.

Carcinogenicity (Components)**sodium thiocyanate**

Remarks No evidence available on carcinogenicity.

Other information

Observe the usual precautions for handling chemicals.

SECTION 12: Ecological information**12.1. Toxicity****Fish toxicity**Species Fathead minnow (*Pimephales promelas*)
LC50 > 100 mg/l
Duration of exposure 96 h
Source Literature value**Fish toxicity (Components)****sodium thiocyanate**Species rainbow trout (*Oncorhynchus mykiss*)
LC50 69 mg/l
Duration of exposure 96 h
Method OECD 203**Daphnia toxicity**Species *Daphnia magna*
EC0 11 mg/l
Duration of exposure 48 h
Source IUCLID**Daphnia toxicity (Components)****sodium thiocyanate**Species *Daphnia magna*
EC50 3.79 mg/l
Duration of exposure 48 h
Method OECD 202**Algae toxicity (Components)****sodium thiocyanate**

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Species	Pseudokirchneriella subcapitata	
EC10	113.43	mg/l
Duration of exposure	72	h
Method	OECD 201	

Bacteria toxicity

Species	Pseudomonas putida	
EC0	8000	mg/l
Method	OECD 209	

Bacteria toxicity (Components)**sodium thiocyanate**

NOEC	2.13	mg/l
Duration of exposure	28	d

12.6. Other adverse effects**General information / ecology**

Harmful to aquatic organisms. Do not allow it to reach ground water, water bodies or sewage system.

SECTION 13: Disposal considerations**13.1. Waste treatment methods****Disposal recommendations for the product**

Disposal in compliance with local and national regulations.

Disposal recommendations for packaging

Dispose of as unused product.

SECTION 14: Transport information**Land transport ADR/RID**

Non-dangerous goods

Marine transport IMDG/GGVSee

The product does not constitute a hazardous substance in sea transport.

Air transport ICAO/IATA

The product does not constitute a hazardous substance in air transport.

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****Water Hazard Class (Germany)**

Water Hazard Class (Germany)	WGK 1
Remarks	Classification according to Annex 4 VwVwS

SECTION 16: Other information**Hazard statements listed in Chapter 3**

H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H412	Harmful to aquatic life with long lasting effects.

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CLP categories listed in Chapter 3

Acute Tox. 4

Acute toxicity, Category 4

Aquatic Chronic 3

Hazardous to the aquatic environment, chronic, Category 3

Eye Irrit. 2

Eye irritation, Category 2

Supplemental information

Relevant changes compared with the previous version of the safety data sheet are marked with: ***

This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.