

Trade name: Thiocyanate/Tris.HCL/C0229000/Merck Sero

Substance number: 332420

Version: 4 / CH

Date revised: 20.02.2023

Replaces Version: 3 / CH

Print date: 20.02.23

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

1.1. Product identifier

Thiocyanate/Tris.HCL/C0229000/Merck Sero
Item No. 33242002

1.3. Details of the supplier of the safety data sheet

Address/Manufacturer

Hänseler AG
Industriestrasse 35
9100 Herisau
Telephone no. 0041 (0)71 353 58 58
E-mail address of person responsible for this SDS sdb@haenseler.ch

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)

Acute Tox. 4	H302
Acute Tox. 4	H312
Acute Tox. 4	H332
Skin Irrit. 2	H315
Eye Irrit. 2	H319
Aquatic Chronic 3	H412

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

H315	Causes skin irritation.
H319	Causes serious eye irritation.
H412	Harmful to aquatic life with long lasting effects.
H302+H312+H332	Harmful if swallowed, in contact with skin or if inhaled.

Precautionary statements

P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P273	Avoid release to the environment.

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

2.3. Other hazards

The product contains no PBT substances. The product contains no vPvB substances. This product does not contain a substance that has endocrine disrupting properties with respect to human. The product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms.

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

Value	81.07	g/mol
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Hazardous ingredients**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

ATE	oral	541	mg/kg
cATpE	dermal	1'100	mg/kg
cATpE	inhalative, Dust/Mist	1.5	mg/l
cATpE	inhalative, Vapors	11	mg/l

2-amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride

CAS No.	1185-53-1		
EINECS no.	214-684-5		
Concentration	>= 10	< 20	%
Classification (Regulation (EC) No. 1272/2008)			
	Skin Irrit. 2		H315
	Eye Irrit. 2		H319
	STOT SE 3		H335

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.

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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**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**Storage classes**

Storage class according to TRGS 510

13

Non- combustible solids

Storage category (Switzerland)

11/13

Other solid hazardous substances with classification/labelling hazardous

Further information on storage conditions

Keep container tightly closed and dry.

SECTION 8: Exposure controls/personal protection**8.2. Exposure controls**

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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 protection

Gloves
Appropriate Material nitrile

Eye protection

necessary

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Physical state	Powder		
Melting point			
Value	308		°C
Flash point			
Remarks	Not applicable		
pH value			
Value	5	to	9
Concentration/H ₂ O	50	g/l	
Vapour pressure			
Remarks	Not applicable		
Density and/or relative density			
Value	1.726		g/cm ³

9.2. Other information

Solubility in water			
Value	1250		g/l
Temperature	20	°C	
Explosive properties			
evaluation	no		
Bulk density			
Value	700	to	800 kg/m ³

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 hazard classes as defined in Regulation (EC) No 1272/2008****Acute oral toxicity**

ATE	616.243	mg/kg
	3	

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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	1'252.99	mg/kg
	01	

Method calculated value (Regulation (EC) No. 1272/2008)

Acute inhalational toxicity

ATE	12.5299	mg/l
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Administration/Form Vapors

Method calculated value (Regulation (EC) No. 1272/2008)

ATE	1.7086	mg/l
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Administration/Form Dust/Mist

Method calculated value (Regulation (EC) No. 1272/2008)

Skin corrosion/irritation (Components)**sodium thiocyanate**

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.

11.2 Information on other hazards**Endocrine disrupting properties with respect to humans**

The product does not contain a substance that has endocrine disrupting properties with respect to humans.

Other information

Observe the usual precautions for handling chemicals.

SECTION 12: Ecological information *****12.1. Toxicity**

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Fish toxicity

Species	Fathead minnow (<i>Pimephales promelas</i>)		
LC50	> 100		mg/l
Duration of exposure	96	h	
Source	Literature value		

Fish toxicity (Components)**sodium thiocyanate**

Species	rainbow trout (<i>Oncorhynchus mykiss</i>)		
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 201		

Algae toxicity (Components)**sodium thiocyanate**

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	

12.2. Persistence and degradability**Biodegradability (Components)****sodium thiocyanate**

evaluation	Readily biodegradable		
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12.5. Results of PBT and vPvB assessment**Results of PBT and vPvB assessment *****

The product contains no PBT substances
The product contains no vPvB substances.

12.6 Endocrine disrupting properties**Endocrine disrupting properties with respect to the environment**

The product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms.

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12.7. 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	Marine transport IMDG/GGVSee	Air transport ICAO/IATA
14.1. UN number	The product does not constitute a hazardous substance in land transport.	The product does not constitute a hazardous substance in sea transport.	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
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Remarks	Derivation of WGK according to Annex 1 No. 5.2 AwSV
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SECTION 16: Other information**Hazard statements listed in Chapter 3**

H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H412	Harmful to aquatic life with long lasting effects.

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
Skin Irrit. 2	Skin irritation, Category 2
STOT SE 3	Specific target organ toxicity - single exposure, Category 3

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.

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