METTLER TOLEDO SAFETY DATA SHEET

according to the Globally Harmonized System

Cleaning solution Thiourea / HCI

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

Cleaning solution Thiourea / HCl
Diaphragm cleaner (9892)
52118031, 30045062, 51350102

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

Use of the Substance/Mixture	Laboratory chemicals
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1.3. Details of the supplier of the safety data sheet

Company/Undertaking Identification	Mettler-Toledo GmbH Im Langacher 44 CH-8606 Greifensee Switzerland Tel: +41 22 567 53 22 Fax: +41 22 567 53 23 Email: ph.lab.support@mt.com
1.4. Emergency telephone number	(24-Hour-Number): GBK GmbH +49 6132 84463
Issuing date	12.02.2018
Version	GHS 2

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008	Carcinogenicity, Cat. 2, H351 Reproductive toxicity, Cat. 2 (d), H361d Hazardous to the aquatic environment, chronic, Cat. 3, H412
Additional information	For the full text of the phrases mentioned in this Section, see Section 16.
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2.2. Label elements



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Signal Word	Warning
Hazard Statements	H351: Suspected of causing cancer. H361d: Suspected of damaging the unborn child. H412: Harmful to aquatic life with long lasting effects.
Precautionary statements	 P201: Obtain special instructions before use. P280: Wear protective gloves/ protective clothing/ eye protection/ face protection. P273: Avoid release to the environment. P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Supplemental information	None.
Product identifier	thiourea; thiocarbamide, CAS-No. 62-56-6, EC-No. 200-543-5
Contents of package < 125 ml	Warning H351: Suspected of causing cancer. H361d: Suspected of damaging the unborn child. H412: Harmful to aquatic life with long lasting effects. P280: Wear protective gloves/ eye protection/ face protection.
2.3. Other hazards	None known.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Components		CLP Classification	Product identifier
Deionised water	90% - 95%		CAS-No.: 7732-18-5 EC-No.: 231-791-2
thiourea; thiocarbamide	5% - 10%	Carc. 2 H351, Repr. 2 H361 (d), Acute Tox. 4 H302, Aquatic Chronic 2 H411	CAS-No.: 62-56-6 EC-No.: 200-543-5 Index-No: 612-082-00-0

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For the full text of the phrases mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation	Move to fresh air in case of accidental inhalation of vapours or decomposition products. Consult a physician for severe cases.
Skin contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If skin irritation persists, call a physician.
Eye contact	Rinse thoroughly with plenty of water, also under the eyelids. If eye irritation persists, consult a specialist.
Ingestion	Rinse mouth. Consult a physician for severe cases.
4.2. Most important symptoms and effects, both acute and delayed	If you feel unwell, seek medical advice (show the label where possible).
4.3. Indication of any immediate medical attention and special treatment needed	None known.

SECTION 5: Firefighting measures

5.1. Extinguishing media	
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry extinguishing agent or carbon dioxide.
Extinguishing media which must not be used for safety reasons	None.
5.2. Special hazards arising from the substance or mixture	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. During a fire, smoke may contain the original material in addition to unidentified toxic and/or irritating compounds.
5.3. Advice for firefighters	
Special protective equipment for firefighters	Standard procedure for chemical fires. In the event of fire, wear self-contained breathing apparatus. Wear protective suit.
Specific methods	Water mist may be used to cool closed containers.
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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel	Ensure adequate ventilation. Use personal protective equipment. Sweep up to prevent slipping hazard. Avoid contact with skin and eyes.
Advice for emergency responders	Handle in accordance with good industrial hygiene and safety practice. Use personal protective equipment. Sweep up to prevent slipping hazard.
6.2. Environmental precautions	Do not flush into surface water or sanitary sewer system.
6.3. Methods and material for containment and cleaning up	Soak up with inert absorbent material. Keep in suitable and closed containers for disposal.
6.4. Reference to other sections	See chapter 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling	Wear personal protective equipment. Practice care and caution to avoid skin contact and inhalation of vapours or mists if generated. Avoid contact with skin and eyes.
7.2. Conditions for safe storage, including any incompatibilities	Store in original container. Storage class 8.
7.3. Specific end use(s)	No information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters	
Exposure limit(s)	No data is available on the product itself.
8.2. Exposure controls	
Appropriate engineering controls	Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes and clothing.
Personal protection equipment	
Respiratory protection	In case of insufficient ventilation wear suitable respiratory equipment. Respirator with combination filter for vapour/particulate (EN 14387).
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Hand protection	The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. Hydrofluoric acid-resistant and solvent-resistant gloves (gloves made of VITON (R)).
Eye protection	Safety glasses with side-shields conforming to EN166.
Skin and body protection	Long sleeved clothing.
Thermal hazards	No special measures required.
Environmental exposure controls	Prevent product from entering surface water or sewage.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Liquid.
Colour	Colourless.
Odour	None.
Odour Threshold	Not determined.
pH:	1
Melting point/range:	Not determined.
Boiling point/range:	Not determined.
Flash point:	does not ignite
Evaporation Rate:	Not determined.
Flammability:	Not determined.
Explosion limits:	Not determined.
Vapour pressure:	Not determined.
Vapor density:	Not determined.
Relative density:	Not determined.
Water solubility:	completely miscible
Partition coefficient (n-	Not determined.
octanol/water):	
Autoignition temperature:	Not determined.
Decomposition temperature:	Not determined.
Viscosity:	Not determined.
Explosive properties:	not hazardous
Oxidising properties:	None
9.2 Other information	

9.2. Other information

General Product Characteristics

No information available.

SECTION 10: Stability and reactivity

10.1. Reactivity

No information available.

Stable under recommended storage conditions.

10.2. Chemical stability

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10.3. Possibility of hazardous reactions	No information available.
10.4. Conditions to avoid	Not required.
10.5. Incompatible materials	None.
10.6. Hazardous decomposition products	None under normal use.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity	No data is available on the product itself. Deionised water (CAS 7732-18-5) Oral LD50 Rat > 90 mL/kg (FOOD_JOURN) thiourea (CAS 62-56-6) LD50/oral 1750 mg/kg. (IUCLID)
Skin corrosion/irritation	Causes severe skin burns and eye damage.
Serious eye damage/eye irritation	Causes serious eye damage.
Respiratory / Skin Sensitisation	CAS 62-56-6: May cause sensitization of susceptible persons by skin contact. (Sittig, M. Handbook of Toxic and Hazardous Chemicals and Carcinogens, 1985. 2nd ed. Park Ridge, NJ: Noyes Data Corporation, 1985., p. 859)
Carcinogenicity	CAS 62-56-6: Possible human carcinogen. (DHHS/National Toxicology Program; Eleventh Report on Carcinogens: 1,2,3- Thiourea (62-56-6) (January 2005).
Germ cell mutagenicity	Based on available data, the classification criteria are not met.
Reproductive toxicity	Suspected of damaging fertility or the unborn child.
Specific target organ toxicity (single exposure)	No data available.
Specific target organ toxicity (repeated exposure)	No data available.
Aspiration hazard	No data available.
Human experience	No data available.
Information on likely routes of exposure	dermal
Symptoms related to the physical, chemical and toxicological characteristics	Suspect reproductive hazard - contains material which may injure unborn child.
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SECTION 12: Ecological information

12.1. Toxicity	No data is available on the product itself. May change pH of waters.	
thiourea; thiocarbamide (CAS 62-56-6)		
Ecotoxicity - Earthworm - Acute Toxicity Data	LC50 28 Days Eisenia foetida >1000 mg/kg [soil dry weight] (IUCLID)	
Ecotoxicity - Freshwater Fish - Acute Toxicity Data Ecotoxicity - Water Flea - Acute Toxicity Data	LC50 28 Days Eisenia foetida 3550 mg/kg [soil dry weight] (IUCLID) LC50 96 h Pimephales promelas >600 mg/L (IUCLID) LC50 96 h Brachydanio rerio 10000 mg/L (IUCLID) EC50 48 h Daphnia magna 35 mg/L (IUCLID)	
Ecotoxicity - Freshwater Algae - Acute Toxicity Data	EC50 96 h Desmodesmus subspicatus 6.8 mg/L (IUCLID) EC50 72 h Desmodesmus subspicatus 3.8 - 10 mg/L (IUCLID)	
12.2. Persistence and degradability	No data available.	
12.3. Bioaccumulative potential	No data available.	
12.4. Mobility in soil	No data available.	
12.5. Results of PBT and vPvB assessment	No information available.	
12.6. Other adverse effects	No information available.	

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste from residues / unused products	Dispose of in accordance with local regulations.
Contaminated packaging	Dispose of as unused product.

SECTION 14: Transport information

ADR/RID	Not regulated.
IMDG	Not regulated.
ΙΑΤΑ	Not regulated.
Further Information	Not classified as dangerous in the meaning of transport regulations.
Further Information	Not classified as dangerous in the meaning of transport regulations.

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SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Regulatory Information

The product is classified and labelled in accordance with EC directives or respective national laws. All chemical substances in this product are either listed on the TSCA Inventory or are in compliance with a TSCA Inventory exemption. The product is classified and labelled according to Regulation (EC) No. 1272/2008.

Deionised water (CAS 7732-18-5)		
Inventory - United States - Section	Present (ACTIVE)	
8(b) Inventory (TSCA)		
U.S TSCA (Toxic Substances	Present (listed under Certain forms of natural gas and water)	
Control Act) - Section 8(a) -	······································	
Chemical Data Reporting Rule -		
Fully Exempt Substances		
thiourea; thiocarbamide (CAS 62-56-6)		
EU - REACH (1907/2006) - List of	Present	
Registered Substances		
Inventory - United States - Section	Present (ACTIVE)	
8(b) Inventory (TSCA)		
U.Ś CERCLA/SARA - Hazardous	10 lb final RQ	
Substances and their Reportable	4.54 kg final RQ	
Quantities		
U.S CERCLA/SARA - Section	0.1 % de minimis concentration	
313 - Emission Reporting		
U.S RCRA (Resource	waste number U219	
Conservation & Recovery Act) -		
Hazardous Constituents - Appendix		
VIII to 40 CFR 261		
U.S RCRA (Resource	waste number U219	
Conservation & Recovery Act) - U		
Series Wastes - Acutely Toxic		
Wastes & Other Hazardous		
Characteristics		
U.S California - Toxic Air	Category IVb	
Contaminant List (AB 1807, AB		
2728)		
U.S California - Proposition 65 -	carcinogen, 1/1/1988	
Carcinogens List		
U.S California - Proposition 65 -	10 μg/day NSRL	
No Significant Risk Levels (NSRL)		

15.2. Chemical safety assessment

Not required.

SECTION 16: Other information

Revision Note

Safety datasheet sections which have been updated: 2.



Key or legend to abbreviations CLP: Classification according to Regulation (EC) No. 1272/2008 and acronyms (GHS) Key literature references and Information taken from reference works and the literature. Sources sources for data of key data used to compile the Safety Data Sheet: IUCLID; Toxnet.. **Classification procedure** Calculation method. Full text of phrases referred to H302: Harmful if swallowed. under sections 2 and 3 H351: Suspected of causing cancer. H361d: Suspected of damaging the unborn child. H411: Toxic to aquatic life with long lasting effects. H412: Harmful to aquatic life with long lasting effects. Disclaimer The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release. It is not to be considered a warranty or quality specification.

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