

according to Regulation (EC) No 1907/2006

Thiourea, 10 g				
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SECTION 1: Identification of the s	substance/mixture and of the company/	/undertaking		
1.1. Product identifier				
Thiourea, 10 g				
CAS No:	62-56-6			
Index No:	612-082-00-0			
EC No:	200-543-5			
1.2. Relevant identified uses of the s	ubstance or mixture and uses advised agai	inst		
Use of the substance/mixture				
Laboratory chemicals				
1.3. Details of the supplier of the safe	ety data sheet			
Seller				
Company name:	CONATEX-DIDACTIC Lehrmittel GmbH			
Street:	Im Forstgarten 1			
Place:	D-66459 Kirkel			
Internet:	www.conatex.com			
Supplier				
Company name:	Carbolution Chemicals GmbH			
Street:	Im Stadtwald, Gebäude A1.2			
Place:	D-66123 Saarbrücken			
Contact person:	Dr. Michael Bauer	Telephone: +49 (0)681 302-71232		
e-mail:	michael.bauer@carbolution-chemicals.de			
Internet:	www.carbolution-chemicals.de			
1.4. Emergency telephone	+49 (0)681 302-71232			
number:				

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Directive 67/548/EEC or 1999/45/EC

Indications of danger: C3 - Carc. Cat. 3, R3 - Repr. Cat. 3, Xn - Harmful, N - Dangerous for the environment R phrases: Limited evidence of a carcinogenic effect. Possible risk of harm to the unborn child. Harmful if swallowed. Toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Hazard categories: Carcinogenicity: Carc. 2 Reproductive toxicity: Repr. 2 Acute toxicity: Acute Tox. 4 Hazardous to the aquatic environment: Aquatic Chronic 2 Hazard Statements: Suspected of causing cancer. Suspected of damaging the unborn child. Harmful if swallowed. Toxic to aquatic life with long lasting effects.



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2.2. Label elements		
	nts which must be listed on the label amide, thiourea	
Signal word:	Warning	
Pictograms:	GHS07-GHS08-GHS09	
Hazard statements		
H302	Harmful if swallowed.	
H351	Suspected of causing cancer.	
H361d	d Suspected of damaging the unborn child.	
H411	Toxic to aquatic life with long lasting effects.	
Precautionary staten		
P273	Avoid release to the environment.	
P281	Use personal protective equipment as required.	

SECTION 3: Composition/information on ingredients

3.1. Substances

Sum formula:	CH4N2S
Molecular weight:	76,12

Hazardous components

EC No	Chemical name	Quantity
CAS No	Classification according to Directive 67/548/EEC	
Index No	Classification according to Regulation (EC) No. 1272/2008 [CLP]	
200-543-5	thiocarbamide, thiourea	100 %
62-56-6	Carc. Cat. 3, Repr. Cat. 3, Xn - Harmful, N - Dangerous for the environment R40-63-22-51-53	
612-082-00-0	Carc. 2, Repr. 2, Acute Tox. 4, Aquatic Chronic 2; H351 H361d *** H302 H411	

Full text of R-, H- and EUH-phrases: see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

After inhalation

Provide fresh air.

After contact with skin

Wash with plenty of water. Change contaminated clothing.

After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water. In case of troubles or persistent symptoms, consult an ophthalmologist.

After ingestion

Rinse mouth immediately and drink plenty of water. Medical treatment necessary.



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4.3. Indication of any immediate medical attention and special treatment needed

No data available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings.

5.2. Special hazards arising from the substance or mixture

The product itself does not burn.

5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing. Full protective suit.

Additional information

Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Provide adequate ventilation. Avoid generation of dust. Do not breathe dust. Avoid contact with skin, eyes and clothes. Wear personal protection equipment.

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up

Take up mechanically. Treat the recovered material as prescribed in the section on waste disposal.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe dust.

Advice on protection against fire and explosion

Only use the material in places where open light, fire and other flammable sources can be kept away.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.2. Exposure controls

Appropriate engineering controls

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe dust.

Protective and hygiene measures

Remove contaminated, saturated clothing immediately. Protect skin by using skin protective cream. After work, wash hands and face. When using do not eat or drink.

Eye/face protection

Eye protection: Tightly sealed safety glasses. German Industry Norms (DIN) / European Norms (EN): DIN EN 166



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Hand protection

Hand protection: Single-use gloves. Before using check leak tightness / impermeability. Use gloves only once. German Industry Norms (DIN) / European Norms (EN): DIN EN 374

Skin protection

Body protection: Lab apron. Only wear fitting, comfortable and clean protective clothing.

Respiratory protection

With correct and proper use, and under normal conditions, breathing protection is not required. If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn. Suitable respiratory protective equipment: particulates filter device (DIN EN 143).

SECTION 9: Physical and chemical properties

9.1

1. Information on basic physical and che	mical properties	
Physical state:	solid	
Colour:	colourless	
Odour:	No data available	
		Test method
pH-Value (at 20 °C):	6	50 g/l
Changes in the physical state		
Melting point:	170 °C	
Initial boiling point and boiling range:	No data available	
Sublimation point:	No data available	
Softening point:	No data available	
Flash point:	No data available	
Flammability Solid:	No dete eveilable	
Gas:	No data available No data available	
Lower explosion limits:	No data available	
Upper explosion limits:	No data available	
Ignition temperature:	No data available	
Auto-ignition temperature		
Solid:	No data available	
Gas:	No data available	
Vapour pressure:	No data available	
Vapour pressure:	No data available	
Density (at 20 °C):	1,405 g/cm³	
Water solubility: (at 20 °C)	137 g/L	
Partition coefficient:	-0,92	
Viscosity / dynamic:	No data available	
Viscosity / kinematic:	No data available	
Flow time:	No data available	
Vapour density:	No data available	
Evaporation rate:	No data available	
Solvent separation test:	No data available	
Solvent content:	No data available	



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Thiourea, 10 g Print date: 15.04.2015 Product code: 9991940 Page 5 of 8 9.2. Other information Solid content: No data available **SECTION 10: Stability and reactivity** 10.1. Reactivity No data available 10.3. Possibility of hazardous reactions No data available 10.4. Conditions to avoid No data available 10.5. Incompatible materials Oxidizing agents, strong. 10.6. Hazardous decomposition products No data available **SECTION 11: Toxicological information** 11.1. Information on toxicological effects

Toxicocinetics, metabolism and distribution

Toxicological data are not available.

Acute toxicity

Acute toxicity, dermal.

CAS No	Chemical name				
	Exposure routes	Method	Dose	Species	Source
62-56-6	thiocarbamide, thiourea				
	oral	ATE	500 mg/kg		

Irritation and corrosivity

No data available

Sensitising effects

No data available

Severe effects after repeated or prolonged exposure

No data available

Carcinogenic/mutagenic/toxic effects for reproduction

May cause cancer. May damage the unborn child.

Specific effects in experiment on an animal

No data available

Additional information on tests

The classification was carried out according to the calculation method of the Preparations Directive (1999/45/EC).

Practical experience

Observations relevant to classification

No data available

SECTION 12: Ecological information

12.1. Toxicity



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Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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 data available

12.6. Other adverse effects

No data available

Further information

Do not allow to enter into surface water or drains. The classification was carried out according to the calculation method of the Preparations Directive (1999/45/EC).

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Advice on disposal

160506

Do not allow to enter into surface water or drains. Dispose of waste according to applicable legislation.

Waste disposal number of waste from residues/unused products

WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; laboratory chemicals, consisting of or containing dangerous substances, including mixtures of laboratory chemicals

Classified as hazardous waste.

Waste disposal number of used product

160506 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; laboratory chemicals, consisting of or containing dangerous substances, including mixtures of laboratory chemicals

Classified as hazardous waste.

Waste disposal number of contaminated packaging

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by dangerous substances Classified as hazardous waste.

Contaminated packaging

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information

Land transport (ADR/RID)

<u>14.1. UN number:</u>	UN3077
14.2. UN proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
14.3. Transport hazard class(es):	9
14.4. Packing group:	III
Hazard label:	9
Classification code:	M7
Special Provisions:	274 335 601
Limited quantity:	5 kg



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Transport category:	3		
Hazard No:	90		
Tunnel restriction code:	E		
Other applicable information (land trans E1	port)		
Inland waterways transport (ADN)			
<u>14.1. UN number:</u>	UN3077		
14.2. UN proper shipping name:	ENVIRONMENTALLY HAZ	ARDOUS SUBSTANCE, SOLID, N.O.S.	
14.3. Transport hazard class(es):	9		
14.4. Packing group:	III		
Hazard label:	9		
Classification code:	M7		
Special Provisions:	274 335 601		
Limited quantity:	5 kg		
Other applicable information (inland wa E1	erways transport)		
Marine transport (IMDG)			
<u>14.1. UN number:</u>	UN3077		
14.2. UN proper shipping name:	ENVIRONMENTALLY HAZ	ARDOUS SUBSTANCE, SOLID, N.O.S.	
14.3. Transport hazard class(es):	9		
14.4. Packing group:	III		
Hazard label:	9		
Special Provisions:	274, 335		
Limited quantity:	5 kg		
EmS:	F-A, S-F		
Other applicable information (marine tra E1	nsport)		
Air transport (ICAO)			
<u>14.1. UN number:</u>	UN3077		
14.2. UN proper shipping name:	ENVIRONMENTALLY HAZ	ARDOUS SUBSTANCE, SOLID, N.O.S.	
14.3. Transport hazard class(es):	9		
14.4. Packing group:	III		
Hazard label:	9		
Special Provisions:	A97 A158 A179		
Limited quantity Passenger:	30 kg G		
IATA-packing instructions - Passenger:	956		
IATA-max. quantity - Passenger: IATA-packing instructions - Cargo:	400 k 956	9	
IATA-packing instructions - Cargo: IATA-max. quantity - Cargo:	950 400 k	a	
Other applicable information (air transp		9	
E1	,		
: Y956			
14.5. Environmental hazards			
ENVIRONMENTALLY HAZARDOUS:	yes		
SECTION 15: Regulatory information			



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

EU regulatory information

Additional information

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

National regulatory information

Water contaminating class (D):

3 - highly water contaminating

SECTION 16: Other information

Relevant R-phrases (Number and full text)

Harmful if swallowed.

- 40 Limited evidence of a carcinogenic effect.
- 51 Toxic to aquatic organisms.
- 53 May cause long-term adverse effects in the aquatic environment.
- 63 Possible risk of harm to the unborn child.

Relevant H- and EUH-phrases (Number and full text)

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