

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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

1.1. Product identifier

Product form : Substance
Substance name : Thioacetamide
CAS No : 62-55-5
Product code : LC26000
Formula : C2H5NS

Synonyms : acetothioamide / ethanethioamide / thioacetimidic acid

BIG no : 22000

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

Use of the substance/mixture : Laboratory chemical

Stabilizer Industrial use

1.3. Details of the supplier of the safety data sheet

LabChem Inc

Jackson's Pointe Commerce Park Building 1000, 1010 Jackson's Pointe Court Zelienople, PA 16063 - USA T 412-826-5230 - F 724-473-0647 info@labchem.com - www.labchem.com

1.4. Emergency telephone number

Emergency number : CHEMTREC: 1-800-424-9300 or 011-703-527-3887

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GHS-US classification

Acute Tox. 4 (Oral) H302 Skin Irrit. 2 H315 Eye Irrit. 2A H319 Carc. 1B H350 Aquatic Chronic 3 H412

2.2. Label elements

GHS-US labelling

Hazard pictograms (GHS-US)





GHS08

GHS07

Signal word (GHS-US) : Danger

Hazard statements (GHS-US)

: H302 - Harmful if swallowed
H315 - Causes skin irritation
H319 - Causes serious eye irritation

H350 - May cause cancer

H412 - Harmful to aquatic life with long lasting effects

Precautionary statements (GHS-US) : P201 - Obtain special instructions before use

P202 - Do not handle until all safety precautions have been read and understood

P264 - Wash exposed skin thoroughly after handling P270 - Do not eat, drink or smoke when using this product

P273 - Avoid release to the environment

P280 - Wear protective gloves, protective clothing, eye protection, face protection

P301+P312 - IF SWALLOWED: call a POISON CENTER or doctor/physician if you feel unwell

P302+P352 - IF ON SKIN: Wash with plenty of soap and water

P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing

P308+P313 - IF exposed or concerned: Get medical advice/attention

P330 - If swallowed, rinse mouth

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P332+P313 - If skin irritation occurs: Get medical advice/attention P337+P313 - If eye irritation persists: Get medical advice/attention P362 - Take off contaminated clothing and wash before reuse

P405 - Store locked up

P501 - Dispose of contents/container to comply with local, state and federal regulations

Other hazards

Other hazards not contributing to the classification

: None under normal conditions.

Unknown acute toxicity (GHS-US)

No data available

SECTION 3: Composition/information on ingredients

Substance

Substance type : Mono-constituent

Name	Product identifier	%	GHS-US classification
Thioacetamide (Main constituent)	(CAS No) 62-55-5	100	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Carc. 1B, H350 Aquatic Chronic 3, H412

Full text of H-phrases: see section 16

3.2. **Mixture**

Not applicable

SECTION 4: First aid measures

Description of first aid measures

First-aid measures general

: Check the vital functions. Unconscious: maintain adequate airway and respiration. Respiratory arrest: artificial respiration or oxygen. Cardiac arrest: perform resuscitation. Victim conscious with laboured breathing: half-seated. Victim in shock: on his back with legs slightly raised. Vomiting: prevent asphyxia/aspiration pneumonia. Prevent cooling by covering the victim (no warming up). Keep watching the victim. Give psychological aid. Keep the victim calm, avoid physical strain. Depending on the victim's condition: doctor/hospital.

First-aid measures after inhalation

Remove the victim into fresh air. Respiratory problems: consult a doctor/medical service.

First-aid measures after skin contact

Wash immediately with lots of water. Soap may be used. Do not apply (chemical) neutralizing

agents. Take victim to a doctor if irritation persists.

First-aid measures after eye contact

Rinse immediately with plenty of water. Do not apply neutralizing agents. Take victim to an

ophthalmologist if irritation persists.

First-aid measures after ingestion

Rinse mouth with water. Call Poison Information Centre (www.big.be/antigif.htm). Consult a doctor/medical service if you feel unwell. Ingestion of large quantities: immediately to hospital.

Most important symptoms and effects, both acute and delayed

Symptoms/injuries after skin contact Tingling/irritation of the skin. Symptoms/injuries after eye contact : Irritation of the eye tissue. Symptoms/injuries after ingestion : Enlargement/affection of the liver.

Indication of any immediate medical attention and special treatment needed

No additional information available

SECTION 5: Firefighting measures

Extinguishing media

Suitable extinguishing media : Water spray. Alcohol-resistant foam. ABC powder. Carbon dioxide.

Unsuitable extinguishing media : No unsuitable extinguishing media known.

Special hazards arising from the substance or mixture

: DIRECT FIRE HAZARD. Non-flammable. In finely divided state: increased fire hazard. Fire hazard

INDIRECT FIRE HAZARD. Heating increases the fire hazard. Reactions involving a fire hazard:

see "Reactivity Hazard".

DIRECT EXPLOSION HAZARD. Its dust is explosive with air. INDIRECT EXPLOSION HAZARD. Explosion hazard

Dust cloud can be ignited by a spark.

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Reactivity	 On heating: release of toxic/corrosive/combustible gases/vapours (hydrogen sulphide,
	ammonia). On burning: release of toxic and corrosive gases/vapours (nitrous vapours, sulphur
	oxides, carbon monoxide - carbon dioxide). Reacts with (some) acids: release of
	toxic/combustible gases/vapours (hydrogen sulphide).

5.3. Advice for firefighters

Precautionary measures fire Exposure to fire/heat: keep upwind. Exposure to fire/heat: consider evacuation. Exposure to fire/heat: have neighbourhood close doors and windows.

Cool tanks/drums with water spray/remove them into safety. Do not move the load if exposed to Firefighting instructions heat. Dilute toxic gases with water spray. Take account of toxic fire-fighting water. Use water

moderately and if possible collect or contain it.

Protection during firefighting : Heat/fire exposure: compressed air/oxygen apparatus.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel 6.1.1.

: Gloves. Face-shield. Protective clothing. Dust cloud production: compressed air/oxygen Protective equipment

apparatus. Dust cloud production: dust-tight suit. Reactivity hazard: compressed air/oxygen apparatus. Reactivity hazard: gas-tight suit.

Emergency procedures Mark the danger area. Prevent dust cloud formation. No naked flames. In case of hazardous reactions: keep upwind. In case of reactivity hazard: consider evacuation. Wash contaminated

clothes.

In case of dust production: keep upwind. Dust production: have neighbourhood close doors and Measures in case of dust release windows. Dust production: stop engines and no smoking. In case of dust production: no naked

flames or sparks. Dust: spark-/explosionproof appliances/lighting equipment.

6.1.2. For emergency responders

Protective equipment : Do not breathe dust. Equip cleanup crew with proper protection.

If a major spill occurs, all personnel should be immediately evacuated and the area ventilated. **Emergency procedures**

Ventilate area. Stop release.

Environmental precautions

Prevent soil and water pollution. Prevent spreading in sewers.

6.3. Methods and material for containment and cleaning up

: Contain released substance, pump into suitable containers. Plug the leak, cut off the supply. For containment

Dam up the solid spill. Knock down/dilute dust cloud with water spray. Hazardous reaction: measure explosive gas-air mixture. If reacting: dilute combustible/toxic gases/vapours. Take account of toxic/corrosive precipitation water. Powdered form: no compressed air for pumping

over spills. On heating: dilute combustible/toxic gases/vapours.

Stop dust cloud by covering with sand/earth. Scoop solid spill into closing containers. Carefully Methods for cleaning up collect the spill/leftovers. Powdered: do not use compressed air for pumping over spills. Take collected spill to manufacturer/competent authority. Clean contaminated surfaces with an excess

of water. Wash clothing and equipment after handling.

Reference to other sections

No additional information available

SECTION 7: Handling and storage

Precautions for safe handling

Precautions for safe handling : Comply with the legal requirements. Remove contaminated clothing immediately. Clean

contaminated clothing. Thoroughly clean/dry the installation before use. Do not discharge the waste into the drain. Powdered form: no compressed air for pumping over. Avoid raising dust. Keep away from naked flames/heat. Finely divided: spark- and explosionproof appliances. Finely divided: keep away from ignition sources/sparks. Observe strict hygiene. Keep container tightly closed. Measure the concentration in the air regularly. Carry operations in the open/under local

exhaust/ventilation or with respiratory protection.

Conditions for safe storage, including any incompatibilities 7.2.

Heat and ignition sources : KEEP SUBSTANCE AWAY FROM: heat sources.

Prohibitions on mixed storage : KEEP SUBSTANCE AWAY FROM: (strong) acids. (strong) bases.

Store in a cool area. Store in a dry area. Provide for an automatic sprinkler system. Keep only in Storage area

the original container. Meet the legal requirements.

SPECIAL REQUIREMENTS: closing, clean, correctly labelled, meet the legal requirements. Special rules on packaging

Secure fragile packagings in solid containers.

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Packaging materials : SUITABLE MATERIAL: glass.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls

Appropriate engineering controls : Emergency eye wash fountains and safety showers should be available in the immediate vicinity

of any potential exposure. Ensure adequate ventilation.

Materials for protective clothing : GIVE EXCELLENT RESISTANCE: No data available. GIVE GOOD RESISTANCE: No data

available. GIVE LESS RESISTANCE: No data available. GIVE POOR RESISTANCE: No data available.

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Hand protection : Gloves.

Eye protection : Face shield. In case of dust production: protective goggles.

Skin and body protection : Protective clothing. In case of dust production: head/neck protection. In case of dust production:

dustproof clothing.

Respiratory protection : Dust production: dust mask with filter type P3.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Solid

Appearance : Crystalline solid. Crystalline powder. Pellets/tablets.

Molecular mass : 75.13 g/mol
Colour : White or yellow.
Odour
Odour threshold : Unpleasant odour.
Od at available
pH : No data available
Relative evaporation rate (butylacetate=1) : No data available

Melting point : 113 °C

Freezing point : No data available Boiling point No data available Flash point : No data available No data available Self ignition temperature Decomposition temperature No data available Flammability (solid, gas) No data available Vapour pressure No data available Relative vapour density at 20 °C No data available Relative density : No data available

Solubility : Soluble in water. Soluble in ethanol. Soluble in petroleum spirit.

Water: 16.3 g/100ml (25 °C) Ethanol: 26.4 g/100ml

Log Pow : < 0.36 (Calculated)
Log Kow : No data available
Viscosity, kinematic : No data available
Viscosity, dynamic : No data available
Explosive properties : No data available
Oxidising properties : No data available
Explosive limits : No data available

9.2. Other information

Other properties : Translucent.

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SECTION 10: Stability and reactivity

10.1. Reactivity

On heating: release of toxic/corrosive/combustible gases/vapours (hydrogen sulphide, ammonia). On burning: release of toxic and corrosive gases/vapours (nitrous vapours, sulphur oxides, carbon monoxide - carbon dioxide). Reacts with (some) acids: release of toxic/combustible gases/vapours (hydrogen sulphide).

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No additional information available

10.4. Conditions to avoid

No additional information available

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

No additional information available

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Harmful if swallowed.

Thioacetamide (\f)62-55-5	
LD50 oral rat	301 mg/kg (Rat)
Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: May cause cancer.

Thioacetamide (62-55-5)	
IARC group	2B - Possibly carcinogenic to humans
National Toxicology Program (NTP) Status	3 - Reasonably anticipated to be Human Carcinogen

Reproductive toxicity : Not classified Specific target organ toxicity (single exposure) : Not classified

Specific target organ toxicity (repeated

exposure)

: Not classified

Aspiration hazard : Not classified

Symptoms/injuries after skin contact : Tingling/irritation of the skin.

Symptoms/injuries after eye contact : Irritation of the eye tissue.

Symptoms/injuries after ingestion : Enlargement/affection of the liver.

Likely routes of exposure : Skin and eyes contact;Inhalation

SECTION 12: Ecological information

12.1. Toxicity

Ecology - air : TA-Luft Klasse 5.2.7.1.1/II.

Ecology - water : Severe water pollutant (surface water). Harmful to invertebrates (Daphnia).

12.2. Persistence and degradability

Thioacetamide (62-55-5)	
Persistence and degradability	Not readily biodegradable in water. Photodegradation in the air.
BOD (% of ThOD)	0 % ThOD

12.3. Bioaccumulative potential

Thioacetamide (62-55-5)	
BCF other aquatic organisms 1	3 (Estimated value)

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Thioacetamide (62-55-5)	
Log Pow	< 0.36 (Calculated)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste disposal recommendations

: Remove waste in accordance with local and/or national regulations. Hazardous waste shall not be mixed together with other waste. Different types of hazardous waste shall not be mixed together if this may entail a risk of pollution or create problems for the further management of the waste. Hazardous waste shall be managed responsibly. All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution or damage to people or animals. Remove to an authorized incinerator equipped with an afterburner and a flue gas scrubber with energy recovery.

Additional information : Hazardous waste according to Directive 2008/98/EC.

SECTION 14: Transport information

In accordance with DOT

No dangerous good in sense of transport regulations

Additional information

Other information : No supplementary information available.

State during transport (ADR-RID) : Rail and road transport: not subject to ADR-RID.

ADR

Transport document description

Transport by sea

No additional information available

Air transport

No additional information available

SECTION 15: Regulatory information

15.1. US Federal regulations

Thioacetamide (62-55-5)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory Listed on SARA Section 313 (Specific toxic chemical listings)	
RQ (Reportable quantity, section 304 of EPA's List of Lists) :	10 lb

15.2. International regulations

CANADA

Thioacetamide (62-55-5)	
Listed on the Canadian DSL (Domestic Sustance	s List) inventory.
WHMIS Classification	Class D Division 2 Subdivision A - Very toxic material causing other toxic effects Class D Division 2 Subdivision B - Toxic material causing other toxic effects

EU-Regulations

No additional information available

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

Carc. 1B H350 Acute Tox. 4 (Oral) H302

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Eye Irrit. 2 H319 Skin Irrit. 2 H315 Aquatic Chronic 3 H412

Full text of H-phrases: see section 16

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

Carc.Cat.2; R45 Xn; R22 Xi; R36/38 R52/53

Full text of R-phrases: see section 16

15.2.2. National regulations

Thioacetamide (62-55-5)

Listed on IARC (International Agency for Research on Cancer) Listed as carcinogen on NTP (National Toxicology Program)

Listed on the Canadian Ingredient Disclosure List

15.3. US State regulations

Thioacetamide(62-55-5)	
U.S California - Proposition 65 - Carcinogens List	Yes

SECTION 16: Other information

Full text of H-phrases: see section 16:

t of 11 philases. see section 10.		
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4	
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category	
·	3	
Carc. 1B	Carcinogenicity, Category 1B	
Eye Irrit. 2A	Serious eye damage/eye irritation, Category 2A	
Skin Irrit. 2	Skin corrosion/irritation, Category 2	
H302	Harmful if swallowed	
H315	Causes skin irritation	
H319	Causes serious eye irritation	
H350	May cause cancer	
H412	Harmful to aquatic life with long lasting effects	

NFPA health hazard : 3 - Short exposure could cause serious temporary or

residual injury even though prompt medical attention was

given.

NFPA fire hazard : 1 - Must be preheated before ignition can occur.

NFPA reactivity : 0 - Normally stable, even under fire exposure conditions,

and are not reactive with water.



HMIS III Rating

Health : * Chronic Hazard - Chronic (long-term) health effects may result from repeated overexposure

Flammability : 1 Slight Hazard
Physical : 0 Minimal Hazard

Personal Protection : F

SDS US (GHS HazCom 2012)

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