



ISO 9001 Quality System Certified Organization

MANUFACTURER & EXPORTER OF LABORATORY CHEMICALS AND OILS

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MATERIAL SAFETY DATA SHEET (MSDS) SDS/MSDS

THIOACETAMIDE

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

1.1. Product identifier

Product form

Trade name : THIOACETAMIDE

EC Index-No. : 616-026-00-6

EC-No. : 200-541-4

CAS-No. : 62-55-5

Formula : C₂H₅NS

Chemical structure

Synonyms

: Substance

: Ethanethioamide, Acetothioamide, TAA, Thioacetimidic acid

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

1.2.1. Relevant identified uses

Use of the substance/mixture

1.2.2. Uses advised against

No additional information available

: Laboratory chemicals, Manufacture of substances

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Acute toxicity (oral), Category 4

Skin corrosion/irritation, Category 2

Serious eye damage/eye irritation, Category 2

Carcinogenicity, Category 1B

Hazardous to the aquatic environment – Chronic Hazard,

Category 3

Full text of H- and EUH-statements: see section 16

H302

H315

H319

H350

H412

Adverse physicochemical, human health and environmental effects

May cause cancer. Harmful if swallowed. Causes skin irritation. Causes serious eye irritation. Harmful to aquatic life with long lasting effects.

2.2. Label elements

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

Hazard pictograms (CLP)

Signal word (CLP)

Hazard statements (CLP)

:

GHS07

: Danger

GHS08

: 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 (CLP)

Nordic countries regulation

Denmark

MAL code

2.3. Other hazards

: P201 - Obtain special instructions before use.

P273 - Avoid release to the environment.

P302+P352 - IF ON SKIN: Wash with plenty of 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.

: 00-1 (Executive Order No. 301 (1993))

Contains no PBT/vPvB substances $\geq 0.1\%$ assessed in accordance with REACH Annex XIII

SECTION 3: Composition/information on ingredients

3.1. Substances

Substance type

Name

CAS-No.

EC-No.

EC Index-No.

Name

: Mono-constituent

: THIOACETAMIDE

: 62-55-5

: 200-541-4

: 616-026-00-6

Product identifier

THIOACETAMIDE

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3.2. Mixtures

CAS-No.: 62-55-5

EC-No.: 200-541-4

EC Index-No.: 616-026-00-6

%

99

Not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general

First-aid measures after inhalation

First-aid measures after skin contact

: IF exposed or concerned: Get medical advice/attention. Call a poison center or a doctor if you feel unwell.

: Remove person to fresh air and keep comfortable for breathing. Give oxygen or artificial respiration if necessary. If you feel unwell, seek medical advice.

: Wash with plenty of water/... Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention. Specific treatment (see supplemental first aid instruction on this label). Wash skin with plenty of water. Take off contaminated clothing. If skin irritation occurs: Get medical advice/attention.

First-aid measures after eye contact

First-aid measures after ingestion

: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. If eye irritation persists: Get medical advice/attention.

: Rinse mouth. Call a POISON CENTER/doctor if you feel unwell. Call a poison center or a doctor if you feel unwell.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects

Symptoms/effects after skin contact

Symptoms/effects after eye contact

Symptoms/effects after ingestion

: May cause cancer.

: Causes skin irritation. Irritation.

: Causes serious eye irritation. Eye irritation.

: Harmful if swallowed.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

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Suitable extinguishing media

Unsuitable extinguishing media

: dry chemical powder, alcohol-resistant foam, carbon dioxide (CO₂). Water spray. Dry powder. Foam.

: Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire

5.3. Advice for firefighters

: Toxic fumes may be released.

Protection during firefighting

: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures

6.1.2. For emergency responders

Protective equipment

Emergency procedures

6.2. Environmental precautions

: Evacuate unnecessary personnel. Only qualified personnel equipped with suitable protective equipment may intervene.

: Do not attempt to take action without suitable protective equipment. Use personal protective equipment as required. For further information refer to section 8: "Exposure controls/personal protection".

: Stop release.

Avoid release to the environment. Harmful to aquatic life with long lasting effects. Notify authorities if product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up

Other information

6.4. Reference to other sections

: Mechanically recover the product. Clear up rapidly by scoop or vacuum. Notify authorities if product enters sewers or public waters.

: Dispose of materials or solid residues at an authorized site.

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling

Hygiene measures



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: Ensure good ventilation of the work station. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Take all necessary technical measures to avoid or minimize the release of the product on the workplace. Limit quantities of product at the minimum necessary for handling and limit the number of exposed workers. Provide local exhaust or general room ventilation. Wear personal protective equipment. Floors, walls and other surfaces in the hazard area must be cleaned regularly. Avoid contact with skin and eyes.

: Do not eat, drink or smoke when using this product. Wash hands, forearms and face thoroughly after handling. Separate working clothes from town clothes. Launder separately. Wash contaminated clothing before reuse. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions

7.3. Specific end use(s)

: Store in original container. Keep container tightly closed. Store in a dry place. Protect from moisture. Store locked up. Store in a well-ventilated place. Keep cool.

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

No additional information available

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

8.2.2. Personal protection equipment

Personal protective equipment symbol(s):

8.2.2.1. Eye and face protection

Eye protection:

Chemical goggles or safety glasses

8.2.2.2. Skin protection

Skin and body protection:

Wear a mask



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Hand protection:

Protective gloves

8.2.2.3. Respiratory protection

Respiratory protection:

Wear appropriate mask

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Solid

Colour : Cream colour.

Appearance : Crystalline powder.

Molecular mass : 75,13 g/mol

Odour : unpleasant. characteristic odour.

Odour threshold : Not available

Melting point : 111 – 114 °C

Freezing point : Not applicable

Boiling point : Decomposes

Flammability : Non flammable.

Lower explosion limit : Not applicable

Upper explosion limit : Not applicable

Flash point : Not applicable

Auto-ignition temperature : Not applicable

Decomposition temperature : Not available

pH : 5,2 at 20°C

pH solution concentration : 10 %

Viscosity, kinematic : Not applicable

Solubility : Water: Soluble in water

Partition coefficient n-octanol/water (Log Kow) : Not available

Partition coefficient n-octanol/water (Log Pow) : -0,3

Vapour pressure : Not available

Vapour pressure at 50 °C : Not available

Density : 1,319 g/cm³

Relative density : Not available

Relative vapour density at 20 °C : Not applicable

Particle size : Not available

9.2. Other information

9.2.1. Information with regard to physical hazard classes

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No additional information available

9.2.2. Other safety characteristics

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

THIOACETAMIDE AR

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Direct sunlight. Air contact. Moisture.

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (oral)

Acute toxicity (dermal)

Acute toxicity (inhalation)

Skin corrosion/irritation

Serious eye damage/irritation

Respiratory or skin sensitisation

Germ cell mutagenicity

Carcinogenicity

Reproductive toxicity

STOT-single exposure

STOT-repeated exposure

Aspiration hazard

: Harmful if swallowed.

: Not classified

: Not classified

: Causes skin irritation.

pH: 5,2 at 20°C

: Causes serious eye irritation.

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pH: 5,2 at 20°C

: Not classified

: Not classified

: May cause cancer.

: Not classified

: Not classified

: Not classified

: Not classified

THIOACETAMIDE AR (62-55-5)

Viscosity, kinematic

11.2. Information on other hazards

Not applicable

11.2.1. Endocrine disrupting properties

No additional information available

11.2.2. Other information

Potential adverse human health effects and symptoms

SECTION 12: Ecological information

: Harmful if swallowed.

12.1. Toxicity

Ecology - general

Ecology - water

Hazardous to the aquatic environment, short-term (acute)

Hazardous to the aquatic environment, long-term (chronic)

: Harmful to aquatic life with long lasting effects.

: Harmful to aquatic life with long lasting effects.

: Not classified

: Harmful to aquatic life with long lasting effects.

12.2. Persistence and degradability

THIOACETAMIDE (62-55-5)

Persistence and degradability

12.3. Bioaccumulative potential

May cause long-term adverse effects in the environment.

THIOACETAMIDE AR (62-55-5)

Partition coefficient n-octanol/water (Log Pow)

12.4. Mobility in soil -0,3

No additional information available

12.5. Results of PBT and vPvB assessment



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No additional information available

12.6. Endocrine disrupting properties

No additional information available

12.7. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods

Product/Packaging disposal recommendations

SECTION 14: Transport information

: Dispose of contents/container in accordance with licensed collector's sorting instructions.

: Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

In accordance with ADR / IMDG / IATA / ADN / RID

14.1. UN number or ID number

Not regulated for transport

14.2. UN proper shipping name

Proper Shipping Name (ADR)

Proper Shipping Name (IMDG)

Proper Shipping Name (IATA)

Proper Shipping Name (RID)

14.3. Transport hazard class(es)

: Not regulated

: Not regulated

: Not regulated

: Not regulated

: Not regulated

ADR

Transport hazard class(es) (ADR)

IMDG

Transport hazard class(es) (IMDG)

IATA

Transport hazard class(es) (IATA)

ADN

Transport hazard class(es) (ADN)

: Not regulated

: Not regulated

: Not regulated

: Not regulated

RID



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Transport hazard class(es) (RID)

14.4. Packing group

: Not regulated

Packing group (ADR)

Packing group (IMDG)

Packing group (IATA)

Packing group (ADN)

Packing group (RID)

14.5. Environmental hazards

: Not regulated

: Not regulated

: Not regulated

: Not regulated

: Not regulated

Dangerous for the environment

Marine pollutant

Other information

14.6. Special precautions for user

: No

: No

: No supplementary information available

Overland transport

Not regulated

Transport by sea

Not regulated

Air transport

Not regulated

Inland waterway transport

Not regulated

Rail transport

Not regulated

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

REACH Annex XVII (Restriction List)

EU restriction list (REACH Annex XVII)

Reference code

Applicable on

28.

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THIOACETAMIDE AR

REACH Annex XIV (Authorisation List)

THIOACETAMIDE AR is not on the REACH Annex XIV List

REACH Candidate List (SVHC)

THIOACETAMIDE AR is not on the REACH Candidate List

PIC Regulation (Prior Informed Consent)

THIOACETAMIDE AR is not subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

POP Regulation (Persistent Organic Pollutants)

THIOACETAMIDE AR is not subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

THIOACETAMIDE is not subject to REGULATION (EU) No 1005/2009 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16

September 2009 on substances that deplete the ozone layer.

Explosives Precursors Regulation (2019/1148)

Contains no substance subject to Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors.

Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on drug precursors)

15.1.2. National regulations

Germany

Water hazard class (WGK)

: Not classified according to Regulation Governing Systems for Handling Substances Hazardous to Waters (AwSV).

Chemicals Prohibition Ordinance (ChemVerbotsV) : This product is subject to ChemVerbotsV Annex 2 Entry 1. The following requirements must

be observed: authorization requirement (according to § 6 paragraph 1 sentence 1), basic requirements for carrying out the delivery (according to § 8 paragraph 1, 3 and 4), identification and documentation (according to § 9 paragraph 1 to 3) and exclusion of the shipping route (according to § 10).

Hazardous Incident Ordinance (12. BImSchV)

Netherlands

SZW-lijst van kankerverwekkende stoffen

SZW-lijst van mutagene stoffen

: Is not subject of the Hazardous Incident Ordinance (12. BImSchV)

: THIOACETAMIDE is listed

: The substance is not listed

SZW-lijst van reprotoxische stoffen – Borstvoeding : The substance is not listed

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SZW-lijst van reprotoxische stoffen –

Vruchtbaarheid

: The substance is not listed

SZW-lijst van reprotoxische stoffen – Ontwikkeling

Denmark

MAL code

Danish National Regulations

15.2. Chemical safety assessment

: The substance is not listed

: 00-1 (Executive Order No. 301 (1993))

: Young people below the age of 18 years are not allowed to use the product

Pregnant/breastfeeding women working with the product must not be in direct contact with the product

No chemical safety assessment has been carried out 

SECTION 16: Other information

Abbreviations and acronyms:

ADN

ADR

ATE

BCF

BLV

BOD

COD

DMEL

DNEL

European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

European Agreement concerning the International Carriage of Dangerous Goods by Road

Acute Toxicity Estimate

Bioconcentration factor

Biological limit value

Biochemical oxygen demand (BOD)

Chemical oxygen demand (COD)

Derived Minimal Effect level

Derived-No Effect Level

EC-No.

EC50

EN

European Community number

Median effective concentration

European Standard





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Abbreviations and acronyms:

IARC International Agency for Research on Cancer
IATA International Air Transport Association
IMDG International Maritime Dangerous Goods
LC50 Median lethal concentration
LD50 Median lethal dose
LOAEL Lowest Observed Adverse Effect Level
NOAEC No-Observed Adverse Effect Concentration
NOAEL No-Observed Adverse Effect Level
NOEC No-Observed Effect Concentration
OECD Organisation for Economic Co-operation and Development
OEL Occupational Exposure Limit
PBT Persistent Bioaccumulative Toxic
PNEC Predicted No-Effect Concentration
RID Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS Safety Data Sheet
STP Sewage treatment plant
ThOD Theoretical oxygen demand (ThOD)
TLM Median Tolerance Limit
VOC Volatile Organic Compounds
CAS-No. Chemical Abstract Service number
N.O.S. Not Otherwise Specified
vPvB Very Persistent and Very Bioaccumulative

ED Endocrine disrupting properties

Full text of H- and EUH-statements:

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. 2 Serious eye damage/eye 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.

Skin Irrit. 2 Skin corrosion/irritation, Category 2

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.