

Safety Data Sheet

according to Regulation (EC) No 1907/2006 (REACH) Classifications according to Regulation (EC) No 1272/2008. Printdate 14 Apr 2025

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product name:

Thiram

1.1. Catalog No.:

673152

1.2. Relevant identified uses of the substance or mixture

Identified: Laboratory chemical uses: R&D

uses:

1.3. Uses advised against:

HPC Standards GmbH Am Wieseneck 7

04451 Cunnersdorf Deutschland

Tel. +49 34291 3372-36 Fax. +49 34291 3372-39 contact@hpc-standards.com

1.4. Emergency telephone number

HPC Standards Tel. +49 34291 3372-36 This number is only available during office hours.

2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture
Regulation (EC) No 1272/2008
Acute toxicity - Oral Category 4 - (H302)
Acute toxicity - Inhalation (Dusts/Mists) Category 2 - (H330)
Skin corrosion/irritation Category 2 - (H315)
Serious eye damage/eye irritation Category 2 - (H319)
Skin sensitisation Category 1 - (H317)
Specific target organ toxicity -- repeated exposure Category 2 - (H373)
Acute aquatic toxicity Category 1 - (H400)
Chronic aquatic toxicity Category 1 - (H410)

2.2. Label elements

2.2.1. Pictogram









2.2.2.

2.2. Label elements Signal word Dänger Hazard statements

H302 - Harmful if swallowed H315 - Causes skin irritation

H317 - May cause an allergic skin reaction

H319 - Causes serious eye irritation H330 - Fatal if inhaled

H373 - May cause damage to organs through prolonged or repeated exposure H410 - Very toxic to aquatic life with long lasting effects

Precautionary Statements - EU (§28, 1272/2008)

P260 - Do not breathe dust/fume/gas/mist/vapours/spray

P273 - Avoid release to the environment

P280 - Wear protective gloves and eye/face protection
P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing
P310 - Immediately call a POISON CENTER or doctor

P391 - Collect spillage
P403 + P233 - Store in a well-ventilated place. Keep container tightly closed

2.3. Other hazards

No information available.

This substance does not meet the PBT/vPvB criteria of REACH, annex XIII. This product does not contain any known or suspected endocrine disruptors.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Chemical name: Thiram

Weight-%: 100

REACH registration number: -EC No (EU Index No): 205-286-2

Classification according to Regulation (EC) No. 1272/2008 [CLP]: Acute Tox. 2 (H330)

Classification according to Acute Tox. 4 (H302) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Skin Sens. 1 (H317) STOT RE 2 (H373) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)

Aquatic Chronic 1 (1410)
M-Factor: 10
M-Factor (long-term): 10
Acute Toxicity Estimate
If LD50/LC50 data is not available or does not correspond to the classification category, then the appropriate conversion value from CLP Annex I, Table 3.1.2, is used to calculate the acute toxicity estimate (ATEmix) for classifying a mixture based on its components

Orall D50 mg/kg: 1080

based on its components
Oral LD50 mg/kg: 1080
Dermal LD50 mg/kg: 7940
Inhalation LC50 - 4 hour - dust/mist - mg/L: 0.5
Inhalation LC50 - 4 hour - vapour - mg/L: n/a
Inhalation LC50 - 4 hour - gas - ppm: n/a
This product does not contain candidate substances of very high concern at a concentration >=0.1% (Regulation (EC) No. 1907/2006 (REACH), Article 59)

3.1.1. Formula

C6H12N2S4



3.1.2. Molecular Weight (g/mol)

240.43

3.1.3. CAS-No.

137-26-8

4. FIRST AID MEASURES

4.1. Description of first aid measures

General advice Immediate medical attention is required. Show this safety data sheet to the doctor in

Inhalation If breathing has stopped, give artificial respiration. Get medical attention immediately. Remove to fresh air. Do not breathe dust. Do not use mouth-to-mouth method if victim

ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. If breathing is difficult, (trained personnel should) give oxygen. Get medical attention immediately if symptoms occur.

Eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area. Get medical attention if irritation develops and

persists. Skin contact May cause an allergic skin reaction. In the case of skin irritation or allergic reactions see a

doctor. Wash off immediately with soap and plenty of water for at least 15 minutes. Ingestion Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious

person. Call a doctor or poison control centre immediately.

Self-protection of the first aider Ensure that medical personnel are aware of the material(s) involved, take precautions to Self-protection of the first aider Ensure that medical personnel are aware of the material(s) involve protect themselves and prevent spread of contamination. Do not breathe dust. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Use personal protective equipment as required. See section 8 for more information. Avoid contact with skin, eyes or clothing.

4.2. Most important symptoms and effects, both acute and delayed Symptoms Coughing and/ or wheezing. Difficulty in breathing. Itching. Rashes. Hives. May cause redness and tearing of the eyes. Burning sensation.

4.3. Indication of any immediate medical attention and special treatment needed Note to doctors May cause sensitisation in susceptible persons. Treat symptomatically.

Note to doctors May cause sensitisation in susceptible persons. Treat symptomatically.

5. FIRE-FIGHTING MEASURES

5.1. Extinguishing media

Suitable Extinguishing Media Use extinguishing measures that are appropriate to local circumstances and the

surrounding environment.
Large Fire CAUTION: Use of water spray when fighting fire may be inefficient.

Unsuitable extinguishing media Do not scatter spilled material with high pressure water streams. 5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the chemical Product is or contains a sensitiser. May cause sensitisation by skin contact. 5.3. Advice for firefighters

Special protective equipment and precautions for fire-fighters
Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

Use personal protection equipment.



6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures
Personal precautions Ensure adequate ventilation. Avoid contact with skin, eyes or clothing. Avoid generation of dust. Do not breathe dust. Use personal protective equipment as required. Evacuate

personnel to safe areas. Keep people away from and upwind of spill/leak.
Other information Refer to protective measures listed in Sections 7 and 8.
For emergency responders Use personal protection recommended in Section 8.

6.2. Environmental precautions

Environmental precautions Prevent further leakage or spillage if safe to do so. Should not be released into the environment. Do not allow to enter into soil/subsoil. Prevent product from entering drains.

6.3. Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Take up mechanically, placing in appropriate containers for disposal.

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections.

Reference to other sections See section 8 for more information. See section 13 for more information.

7. HANDLING AND STORAGE

7.1. Precautions for safe handling Advice on safe handling Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not breathe dust. Avoid generation of dust. In case of insufficient ventilation, wear suitable respiratory equipment. Handle product only in closed system or provide appropriate exhaust ventilation. Do not eat, drink or smoke when using this product.

Take off contaminated clothing and wash it before reuse.
General hygiene considerations Do not breathe dust. Take off contaminated clothing and wash it before reuse.

Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of

equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Wash hands before breaks and after work. Wear

suitable gloves and eye/face protection.
7.2. Conditions for safe storage, including any incompatibilities
Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Store locked up. Keep out of the reach of children. Please refer to the manufacturers certificate for specific storage and transport temperature conditions. Store only in the original receptacle unless other advice is given on the CoA.

7.3. Specific end use(s)

Risk Management Methods (RMM) The information required is contained in this Safety Data Sheet.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Biological occupational exposure limits

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies

Derived No Effect Level (DNEL) No information available.
Predicted No Effect Concentration (PNEC) No information available.

8.2. Exposure controls

Personal protective equipment

Eye/face protection Avoid contact with eyes. Wear safety glasses with side shields (or goggles). Hand protection Wear suitable gloves. Impervious gloves. The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the related standard EN374. Wear

protective Viton(TM) gloves .
Skin and body protection Long sleeved clothing. Wear suitable protective clothing.
Respiratory protection When workers are facing concentrations above the exposure limit they must use appropriate

General hygiene considerations Do not breathe dust. Take off contaminated clothing and wash it before reuse.

Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and

immediately after handling the product. Avoid contact with skin, eyes or clothing. Do not eat,



drink or smoke when using this product. Wash hands before breaks and after work. Wear suitable gloves and eye/face protection.

Environmental exposure controls Do not allow into any sewer, on the ground or into any body of water.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

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Physical state Solid
Appearance Crystalline
Colour colourless
Odour No information available.
Odour threshold No information available
Property Values Remarks -- Method
Melting point / freezing point 144 - 146 °C None known
Initial boiling point and boiling rangeNo data available None known
Flammability No data available None known
Upper flammability or explosive

Upper flammability or explosive

No data available

Lower flammability or explosive

limits

No data available

Flash point No data available None known

Autoignition temperature No data available None known

Decomposition temperature None known

pH No data available None known

pH (as aqueous solution) No data available No information available Kinematic viscosity No data available None known Dynamic viscosity No data available None known Water solubility 19.1 mg/l at 20 °C Solubility(ies) No data available None known

Partition coefficient 1.84 None known
Vapour pressure No data available None known
Relative density 1.36 at 20 °C
Bulk density No data available

Liquid Density No data available
Relative vapour density No data available None known

Particle characteristics

Particle Size No information available
Particle Size Distribution No information available

9.2. Other information

9.2.1. Information with regards to physical hazard classes

Not applicable 9.2.2. Other safety characteristics No information available

10. STABILITY AND REACTIVITY

10.1. Reactivity

Reactivity No information available.

10.2. Chémical stability

Stability Stable under normal conditions.

Explosion data

Sensitivity to mechanical impact None.

Sensitivity to static discharge None.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions None under normal processing.

10.4. Conditions to avoid

Conditions to avoid Excessive heat.



10.5. Incompatible materials Incompatible materials Strong acids. Strong bases. Strong oxidising agents. Hazardous decomposition products None known based on information supplied.

11. TOXICOLOGICAL INFORMATION

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

Information on likely routes of exposure

Product Information

Inhalation Specific test data for the substance or mixture is not available. Fatal if inhaled. (based on

components). Eye contact Specific test data for the substance or mixture is not available. Causes serious eye irritation. (based on components). May cause redness, itching, and pain. Skin contact May cause sensitisation by skin contact. Specific test data for the substance or mixture is not available. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. (based on components). Causes skin irritation. Ingestion Specific test data for the substance or mixture is not available. Ingestion may cause gastrointestinal irritation. nausea, vomiting and diarrhoea. Harmful if swallowed. (based on components)

Symptoms related to the physical, chemical and toxicological characteristics Symptoms Coughing and/ or wheezing. Difficulty in breathing. Itching. Rashes. Hives. Redness. May cause redness and tearing of the eyes.

Numerical measures of toxicity

Acute toxicity
Component Information
Oral LD50 = 560 mg/kg (Rat)
Dermal LD50 > 7940 mg/kg (Rabbit)
Inhalation LC50 = 500 mg/m3 (Rat) 4 h
Delayed and immediate effects as well as chronic effects from short and long-term exposure
Skin corrosion/irritation Classification based on data available for ingredients. Causes skin irritation.

Serious eye damage/eye irritation Classification based on data available for ingredients. Causes serious eye irritation. Respiratory or skin sensitisation May cause an allergic skin reaction.

Germ cell mutagenicity No information available. Carcinogenicity No information available.

Reproductive toxicity No information available.
STOT - single exposure No information available.
STOT - repeated exposure May cause damage to organs through prolonged or repeated exposure.
Aspiration hazard No information available.

11.2. Information on other hazards 11.2.1. Endocrine disrupting properties

Endocrine disrupting properties 11.2.2. Other information

Other adverse effects No information available.

12. ECOLOGICAL INFORMATION

12.1. Toxicity

12.1. Toxicity
Ecotoxicity Very toxic to aquatic life with long lasting effects.
Algae/aquatic plants: EC50: <0.1mg/L (96h, Desmodesmus subspicatus)
Fish: LC50: 0.00024 - 0.00028mg/L (96h, Oncorhynchus mykiss)
LC50: 0.034 - 0.05005mg/L (96h, Lepomis macrochirus)
LC50: 0.0491 - 0.0611nM (96h, Pimephales promelas)
LC50: 0.090 - 0.170mg/L (96h, Oncorhynchus mykiss)
LC50: 0.22 - 0.33mg/L (96h, Poecilia reticulata)
LC50: =0.0003mg/L (96h, Cyprinus carpio)
LC50: =0.048mg/L (96h, Oncorhynchus mykiss)
LC50: =0.13mg/L (96h, Lepomis macrochirus)
LC50: =0.27mg/L (96h, Pimephales promelas)
Toxicity to microorganisms: Crustacea: EC50: =0.21mg/L (48h, Daphnia magna)



12.2. Persistence and degradability Persistence and degradability No information available. 12.3. Bioaccumulative potential Bioaccumulation There is no data for this product. Partition coefficient: 1.84 12.4. Mobility in soil

Mobility in soil No information available. 12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment The product does not contain any substance(s) classified as PBT or vPvB.

12.6. Endocrine disrupting properties
Endocrine disrupting properties No information available.
12.7. Other adverse effects

No information available.

13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods Waste from residues/unused products
Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation. Contaminated packaging Do not reuse empty containers.

14. TRANSPORT INFORMATION

14.1 UN number or ID number UN2757 14.2 UN proper shipping name Carbamate pesticide, solid, toxic (thiram) 14.3 Transport hazard class(es) 6.1 14.4 Packing group II
Description UN2757, Carbamate pesticide, solid, toxic (thiram), 6.1, II
14.5 Environmental hazards Yes 14.6 Special precautions for user Special Provisions A3, A5 ERG Code 6L **IMDG** 14.1 UN number or ID number UN2757
14.2 UN proper shipping name Carbamate pesticide, solid, toxic (thiram) 14.3 Transport hazard class(es) 6.1 14.4 Packing group II
Description UN2757, Carbamate pesticide, solid, toxic, 6.1, II, Marine pollutant 14.5 Marine pollutant P Environmental hazards Yes 14.6 Special precautions for user Special Provisions 61, 274 EmS-No F-A, S-A No information available 14.7 Maritime transport in bulk according to IMO instruments No information available RID 14.1 UN number or ID number UN2757 14.2 UN proper shipping name Carbamate pesticide, solid, toxic (thiram) 14.3 Transport hazard class(es) 6.1 14.4 Packing group II
Description UN2757, Carbamate pesticide, solid, toxic (thiram), 6.1, II, Environmentally Hazardous
14.5 Environmental hazards Yes 14.6 Special precautions for user Special Provisions 61, 274, 648 Classification code T7 ADR 14.1 UN number or ID number UN2757



14.2 UN proper shipping name Carbamate pesticide, solid, toxic (thiram)

14.3 Transport hazard člass(es) 6.1

14.4 Packing group II
Description UN2757, Carbamate pesticide, solid, toxic (thiram), 6.1, II, (D/E), Environmentally

Hazardous

14.5 Environmental hazards Yes 14.6 Special precautions for user

Special Provisions 61, 274, 648 Classification code T7

Tunnel restriction code (D/E)

15. REGULATORY INFORMATION

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

This product does not contain substances subject to authorisation (Regulation (EC) No. 1907/2006 (REACH), Annex XIV)

product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII) Water hazard class (WGK) strongly hazardous to water (WGK 3) 15.2. Chemical safety assement

Chemical Safety Report A Chemical Safety Assessment is not required for this substance

16. OTHER INFORMATION

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. For lab use only!