

## Safety Data Sheet

acc. to OSHA HCS

Printing date 10/28/2025

Reviewed on 01/19/2023

### 1 Identification

- **Product identifier**
- **Trade name:** Thiourea mix 1.5% in petrolatum
- **Article number:** Mx-27
- **Application of the substance / the mixture** Diagnosis of contact allergy
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
Chemotechnique MB Diagnostics AB  
Modemgatan 9  
235 39 VELLINGE  
SWEDEN
- **Information department:** Product safety department.
- **Emergency telephone number:**  
8.00 to 16.00 (CET): +46 (0)40 466 077  
Local emergency services during non-office hours

### 2 Hazard(s) identification

- **Classification of the substance or mixture**  
Sensitization - Skin 1 H317 May cause an allergic skin reaction.
- 
- **Label elements**
  - **GHS label elements**  
The product is classified and labeled according to the Globally Harmonized System (GHS).
  - **Hazard pictograms**  
  
GHS07
  - **Signal word** Warning
  - **Hazard-determining components of labeling:**  
N,N'-diphenylthiourea  
N,N'-diethylthiourea
  - **Hazard statements**  
May cause an allergic skin reaction.

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· **Precautionary statements**

Avoid breathing dust/fume/gas/mist/vapors/spray  
Contaminated work clothing must not be allowed out of the workplace.  
Wear protective gloves.  
If on skin: Wash with plenty of water.  
If skin irritation or rash occurs: Get medical advice/attention.  
Specific treatment (see on this label).  
Wash contaminated clothing before reuse.  
Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Classification system:**

· **NFPA ratings (scale 0 - 4)**



Health = 0  
Fire = 1  
Reactivity = 0

· **HMIS-ratings (scale 0 - 4)**



Health = 0  
Fire = 1  
Reactivity = 0

· **Other hazards**

· **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.
- **vPvB:** Not applicable.

### 3 Composition/information on ingredients

· **Chemical characterization: Mixtures**

· **Description:** Mixture of the substances listed below with nonhazardous additions.

· **Dangerous components:**

|          |                       |      |
|----------|-----------------------|------|
| 102-08-9 | N,N'-diphenylthiourea | 0.5% |
| 105-55-5 | N,N'-diethylthiourea  | 0.5% |

· **Non-hazardous ingredients**

|           |                        |       |
|-----------|------------------------|-------|
| 8009-03-8 | Petrolatum             | 98.5% |
| 109-46-6  | 1,3-dibutyl-2-thiourea | 0.5%  |

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### 4 First-aid measures

- **Description of first aid measures**
- **After inhalation:**  
Supply fresh air and to be sure call for a doctor.  
In case of unconsciousness place patient stably in side position for transportation.
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:** Rinse opened eye for several minutes under running water.
- **After swallowing:** If symptoms persist consult doctor.
- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed**  
No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

### 5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:** Use fire fighting measures that suit the environment.
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** No special measures required.

### 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures** Not required.
- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**  
Dispose contaminated material as waste according to section 13.  
Ensure adequate ventilation.
- **Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

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### · Protective Action Criteria for Chemicals

#### · PAC-1:

|          |                      |                        |
|----------|----------------------|------------------------|
| 105-55-5 | N,N'-diethylthiourea | 0.95 mg/m <sup>3</sup> |
|----------|----------------------|------------------------|

#### · PAC-2:

|          |                      |                      |
|----------|----------------------|----------------------|
| 105-55-5 | N,N'-diethylthiourea | 10 mg/m <sup>3</sup> |
|----------|----------------------|----------------------|

#### · PAC-3:

|          |                      |                      |
|----------|----------------------|----------------------|
| 105-55-5 | N,N'-diethylthiourea | 63 mg/m <sup>3</sup> |
|----------|----------------------|----------------------|

## 7 Handling and storage

### · Handling:

#### · Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

FOR EXTERNAL/TOPICAL USE ONLY.

· **Information about protection against explosions and fires:** No special measures required.

### · Conditions for safe storage, including any incompatibilities

#### · Storage:

#### · Requirements to be met by storerooms and receptacles:

Store at temperatures between 2 °C and 8 °C

· **Information about storage in one common storage facility:** Not required.

· **Further information about storage conditions:** Protect from sunlight.

· **Specific end use(s)** No further relevant information available.

## 8 Exposure controls/personal protection

· **Additional information about design of technical systems:** No further data; see section 7.

### · Control parameters

#### · Components with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

· **Additional information:** The lists that were valid during the creation were used as basis.

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- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**  
Immediately remove all soiled and contaminated clothing.  
Wash hands before breaks and at the end of work.
- **Breathing equipment:**  
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.
- **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

- **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye protection:** Not required.

## 9 Physical and chemical properties

- **Information on basic physical and chemical properties**

- **General Information**

- **Appearance:**

**Form:** Solidified mass

**Color:** Whitish

· **Odor:** Odorless

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|                                                                                                            |                                                              |
|------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|
| · <b>Odor threshold:</b>                                                                                   | Not determined.                                              |
| · <b>pH-value:</b>                                                                                         | Not applicable.                                              |
| · <b>Change in condition</b><br><b>Melting point/Melting range:</b><br><b>Boiling point/Boiling range:</b> | 51.6–57.2 °C (124.9–135 °F)<br>359–732 °C (678.2–1,349.6 °F) |
| · <b>Flash point:</b>                                                                                      | 259–277 °C (498.2–530.6 °F)                                  |
| · <b>Flammability:</b>                                                                                     | Not determined.                                              |
| · <b>Auto igniting:</b>                                                                                    | >290 °C (>554 °F)                                            |
| · <b>Decomposition temperature:</b>                                                                        | Not determined.                                              |
| · <b>Ignition temperature:</b>                                                                             | Product is not selfigniting.                                 |
| · <b>Danger of explosion:</b>                                                                              | Product does not present an explosion hazard.                |
| · <b>Explosion limits:</b><br><b>Lower:</b><br><b>Upper:</b>                                               | Not determined.<br>Not determined.                           |
| · <b>Vapor pressure at 20 °C (68 °F):</b>                                                                  | <0.013 hPa (<0 mm Hg)                                        |
| · <b>Density at 20 °C (68 °F):</b>                                                                         | 0.87 g/cm <sup>3</sup> (7.26015 lbs/gal)                     |
| · <b>Relative density</b>                                                                                  | Not determined.                                              |
| · <b>Vapor density</b>                                                                                     | Not applicable.                                              |
| · <b>Evaporation rate</b>                                                                                  | Not applicable.                                              |
| · <b>Solubility in / Miscibility with</b><br><b>Water:</b>                                                 | Insoluble.                                                   |
| · <b>Partition coefficient (n-octanol/water):</b>                                                          | 0.77815                                                      |
| · <b>Viscosity:</b><br><b>Dynamic:</b><br><b>Kinematic:</b>                                                | Not applicable.<br>Not applicable.                           |
| · <b>Solvent content:</b><br><b>VOC content:</b>                                                           | 0.00 %                                                       |
| <b>Solids content:</b>                                                                                     | 100.0 %                                                      |

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· **Other information** No further relevant information available.

### 10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

### 11 Toxicological information

· **Information on toxicological effects**

· **Acute toxicity:**

· **LD/LC50 values that are relevant for classification:**

**102-08-9 N,N'-diphenylthiourea**

|      |      |                |
|------|------|----------------|
| Oral | LD50 | 50 mg/kg (rat) |
|------|------|----------------|

**105-55-5 N,N'-diethylthiourea**

|      |      |                 |
|------|------|-----------------|
| Oral | LD50 | 316 mg/kg (rat) |
|------|------|-----------------|

· **Primary irritant effect:**

· **on the skin:** No irritant effect.

· **on the eye:** No irritating effect.

· **Sensitization:** Sensitization possible through skin contact.

· **Additional toxicological information:**

The product shows the following dangers according to internally approved calculation methods for preparations:

Irritant

· **Carcinogenic categories**

· **IARC (International Agency for Research on Cancer)**

|          |                      |   |
|----------|----------------------|---|
| 105-55-5 | N,N'-diethylthiourea | 3 |
|----------|----------------------|---|

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· **NTP (National Toxicology Program)**

None of the ingredients is listed.

· **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

### 12 Ecological information

· **Toxicity**

· **Aquatic toxicity:** No further relevant information available.

· **Persistence and degradability** No further relevant information available.

· **Behavior in environmental systems:**

· **Bioaccumulative potential** No further relevant information available.

· **Mobility in soil** No further relevant information available.

· **Additional ecological information:**

· **General notes:**

Water hazard class 2 (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

· **Other adverse effects** No further relevant information available.

### 13 Disposal considerations

· **Waste treatment methods**

· **Recommendation:**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

· **Uncleaned packagings:**

· **Recommendation:** Disposal must be made according to official regulations.

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### 14 Transport information

|                                                                           |                 |
|---------------------------------------------------------------------------|-----------------|
| · UN-Number                                                               |                 |
| · DOT, IMDG, IATA                                                         | not regulated   |
| · UN proper shipping name                                                 |                 |
| · DOT, IMDG, IATA                                                         | not regulated   |
| · Transport hazard class(es)                                              |                 |
| · DOT, ADN, IMDG, IATA                                                    |                 |
| · Class                                                                   | not regulated   |
| · Packing group                                                           |                 |
| · DOT, IMDG, IATA                                                         | not regulated   |
| · Environmental hazards:                                                  | Not applicable. |
| · Special precautions for user                                            | Not applicable. |
| · Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code | Not applicable. |
| · UN "Model Regulation":                                                  | not regulated   |

### 15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture  
No further relevant information available.
- Sara

#### · Section 355 (extremely hazardous substances):

None of the ingredients is listed.

#### · Section 313 (Specific toxic chemical listings):

None of the ingredients is listed.

#### · TSCA (Toxic Substances Control Act):

|          |                        |        |
|----------|------------------------|--------|
| 102-08-9 | N,N'-diphenylthiourea  | ACTIVE |
| 105-55-5 | N,N'-diethylthiourea   | ACTIVE |
| 109-46-6 | 1,3-dibutyl-2-thiourea | ACTIVE |

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· **Hazardous Air Pollutants**

None of the ingredients is listed.

· **Proposition 65**

· **Chemicals known to cause cancer:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

· **Chemicals known to cause developmental toxicity:**

None of the ingredients is listed.

· **Carcinogenic categories**

· **EPA (Environmental Protection Agency)**

None of the ingredients is listed.

· **TLV (Threshold Limit Value)**

None of the ingredients is listed.

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

· **GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

· **Hazard pictograms**



GHS07

· **Signal word** Warning

· **Hazard-determining components of labeling:**

N,N'-diphenylthiourea

N,N'-diethylthiourea

· **Hazard statements**

May cause an allergic skin reaction.

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· **Precautionary statements**

- Avoid breathing dust/fume/gas/mist/vapors/spray
- Contaminated work clothing must not be allowed out of the workplace.
- Wear protective gloves.
- If on skin: Wash with plenty of water.
- If skin irritation or rash occurs: Get medical advice/attention.
- Specific treatment (see on this label).
- Wash contaminated clothing before reuse.
- Dispose of contents/container in accordance with local/regional/national/international regulations.
- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Department issuing SDS:** Product safety department.

· **Contact:** -

· **Date of preparation / last revision** 01/19/2023 / 4.0

· **Abbreviations and acronyms:**

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)  
IMDG: International Maritime Code for Dangerous Goods  
DOT: US Department of Transportation  
IATA: International Air Transport Association  
EINECS: European Inventory of Existing Commercial Chemical Substances  
ELINCS: European List of Notified Chemical Substances  
CAS: Chemical Abstracts Service (division of the American Chemical Society)  
NFPA: National Fire Protection Association (USA)  
HMIS: Hazardous Materials Identification System (USA)  
VOC: Volatile Organic Compounds (USA, EU)  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent  
PBT: Persistent, Bioaccumulative and Toxic  
vPvB: very Persistent and very Bioaccumulative  
NIOSH: National Institute for Occupational Safety  
OSHA: Occupational Safety & Health  
TLV: Threshold Limit Value  
PEL: Permissible Exposure Limit  
REL: Recommended Exposure Limit  
Sensitization - Skin 1: Skin sensitisation – Category 1

· **\* Data compared to the previous version altered.**