

according to 29 CFR 1910.1200(g)

## NATURAL 2-METHYL TETRAHYDROFURAN-3-THIOL

Revision date: 12/06/2023

Product code: 378730US

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#### 1. Identification

## Product identifier

NATURAL 2-METHYL TETRAHYDROFURAN-3-THIOL

Substance name: CAS No: NATURAL 2-METHYL TETRAHYDROFURAN-3-THIOL

57124-87-5

## Recommended use of the chemical and restrictions on use

#### Use of the substance/mixture

Manufacturing of: - Air care products - Perfumes, fragrances - Pharmaceuticals - Cosmetics, personal care products - Flavouring Substances - Other

#### Details of the supplier of the safety data sheet

| Company name:           | Axxence Aromatic GmbH            |                              |
|-------------------------|----------------------------------|------------------------------|
| Street:                 | Tackenweide 28                   |                              |
| Place:                  | D-46446 Emmerich am Rhein        |                              |
| Telephone:              | + 49 2822 68561 0                | Telefax:+ 49 2822 68561 39   |
| E-mail:                 | info@axxence.com                 |                              |
| Contact person:         | Safety Team                      | Telephone: + 49 2822 68561 0 |
| E-mail:                 | safety-documentation@axxence.com |                              |
| Internet:               | www.axxence.de                   |                              |
| Responsible Department: | Safety Management                |                              |
| Emergency phone number: | +49 2822 68561 99                |                              |

#### 2. Hazard(s) identification

## **Classification of the chemical**

#### 29 CFR Part 1910.1200

Flammable liquids: Flam. Liq. 3 Skin corrosion/irritation: Skin Irrit. 2 Serious eye damage/eye irritation: Eye Irrit. 2 Specific target organ toxicity single exposure: STOT SE 3 (respiratory tract irritation)

## Label elements

#### 29 CFR Part 1910.1200

Signal word:

**Pictograms:** 



Warning

#### **Hazard statements**

Flammable liquid and vapor Causes skin irritation Causes serious eye irritation May cause respiratory irritation

## **Precautionary statements**

Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge.

Avoid breathing dust/fume/gas/mist/vapors/spray.



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Wash hands thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection. If on skin: Wash with plenty of Water and soap. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell. If in eves: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsina. If eve irritation persists: Get medical advice/attention. In case of fire: Use Foam / Carbon dioxide (CO2) to extinguish. Keep container tightly closed. Store in a well-ventilated place. Keep cool. Store locked up. Dispose of contents/container to Organic waste. 3. Composition/information on ingredients

#### **Substances**

| Sum formula:      | C5 H10 O S   |
|-------------------|--------------|
| Molecular weight: | 118,20 g/mol |

#### **Relevant ingredients**

| CAS No     | Components                               | Quantity |
|------------|--|----------|
| 57124-87-5 | NATURAL 2-METHYL TETRAHYDROFURAN-3-THIOL | 100 %    |

#### 4. First-aid measures

#### **Description of first aid measures**

#### After inhalation

Provide fresh air. Medical treatment necessary.

#### After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention.

#### After contact with eyes

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

#### After ingestion

Observe risk of aspiration if vomiting occurs. Rinse mouth immediately and drink 1 glass of of water.

## Most important symptoms and effects, both acute and delayed

No information available.

## Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

#### 5. Fire-fighting measures

## Extinguishing media

### Suitable extinguishing media

Water spray jet, Carbon dioxide (CO2), Foam, Extinguishing powder.



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### Specific hazards arising from the chemical

Flammable. Vapors may form explosive mixtures with air.

## Special protective equipment and precautions for fire-fighters

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

#### Additional information

Use water spray jet to protect personnel and to cool endangered containers. Supress gases/vapors/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

#### 6. Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

#### General advice

Remove all sources of ignition. Do not breathe gas/fume/vapor/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment.

#### Environmental precautions

Do not allow uncontrolled discharge of product into the environment. Explosion risk.

## Methods and material for containment and cleaning up

#### For cleaning up

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

#### Other information

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

#### Reference to other sections

Safe handling: see section 7 Personal protection equipment (PPE): see section 8 Disposal: see section 13

## 7. Handling and storage

## Precautions for safe handling

#### Advice on safe handling

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fume/vapor/spray.

#### Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges. Vapors may form explosive mixtures with air.

## Advice on general occupational hygiene

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat, drink, smoke, sniff. Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat or drink.

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

#### Requirements for storage rooms and vessels

Keep container tightly closed. Keep locked up. Store in a place accessible by authorized persons only. Provide adequate ventilation as well as local exhaustion at critical locations. Keep in a cool, well-ventilated place. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

#### Hints on joint storage

Do not store together with: Oxidizing agent. Pyrophoric or self-heating substances.



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# 8. Exposure controls/personal protection

## **Control parameters**

#### Exposure controls





## Appropriate engineering controls

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fume/vapor/spray.

#### Individual protection measures, such as personal protective equipment

#### Eye/face protection

Suitable eye protection: goggles.

#### Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. Suitable gloves type: Disposable gloves + NBR (Nitrile rubber)

#### Skin protection

Use of protective clothing.

## **Respiratory protection**

In case of inadequate ventilation wear respiratory protection.

## 9. Physical and chemical properties

## Information on basic physical and chemical properties

| Physical state:                            | Liquid                    |                |
|--|---------------------------|----------------|
| Color:                                     | Colourless to pale yellow |                |
| Melting point/freezing point:              |                           | not determined |
| Boiling point or initial boiling point and |                           | 166 °C         |
| boiling range:                             |                           |                |
| Flammability:                              |                           | not determined |
| Lower explosion limits:                    |                           | not determined |
| Upper explosion limits:                    |                           | not determined |
| Flash point:                               |                           | 51 °C          |
| Auto-ignition temperature:                 |                           | not determined |
| Decomposition temperature:                 |                           | not determined |
| pH-Value:                                  |                           | not determined |
| Viscosity / kinematic:                     |                           | not determined |
| Solubility in other solvents               |                           |                |
| not determined                             |                           |                |
| Partition coefficient n-octanol/water:     |                           | 1,228          |
| Vapor pressure:                            |                           | 4 hPa          |
| (at 20 °C)                                 |                           |                |
| Density (at 20 °C):                        |                           | 1,05 g/cm³     |
| Relative vapour density:                   |                           | not determined |
| Particle characteristics:                  |                           | not applicable |
| Other information                          |                           |                |

#### **Other information**



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# Information with regard to physical hazard classes

Explosive properties The product is not: Explosive. not explosive according to EU A.14 Oxidizing properties

The product is not: oxidising.

| Other safety characteristics |                |
|------------------------------|----------------|
| Evaporation rate:            | not determined |
| Solvent content:             | 0%             |
| Solid content:               | 0%             |
|                              |                |

## 10. Stability and reactivity

### **Reactivity**

Flammable.

#### **Chemical stability**

The product is stable under storage at normal ambient temperatures.

## Possibility of hazardous reactions

No known hazardous reactions.

#### Conditions to avoid

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Vapors may form explosive mixtures with air.

#### Incompatible materials

No information available.

#### Hazardous decomposition products

No known hazardous decomposition products.

## 11. Toxicological information

## Information on toxicological effects

## Acute toxicity

Based on available data, the classification criteria are not met.

#### Irritation and corrosivity

Skin corrosion/irritation: Causes skin irritation Serious eye damage/eye irritation: Causes serious eye irritation

#### Sensitizing effects

Based on available data, the classification criteria are not met.

#### Carcinogenic/mutagenic/toxic effects for reproduction

Germ cell mutagenicity: Based on available data, the classification criteria are not met. Carcinogenicity: Based on available data, the classification criteria are not met. Reproductive toxicity: Based on available data, the classification criteria are not met.

## Specific target organ toxicity (STOT) - single exposure

May cause respiratory irritation (NATURAL 2-METHYL TETRAHYDROFURAN-3-THIOL)

#### Specific target organ toxicity (STOT) - repeated exposure

Based on available data, the classification criteria are not met.

| Carcinogenicity (OSHA): | Not listed. |
|-------------------------|-------------|
| Carcinogenicity (IARC): | Not listed. |
| Carcinogenicity (NTP):  | Not listed. |

## Aspiration hazard

Based on available data, the classification criteria are not met.

## Information on other hazards



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#### **Endocrine disrupting properties**

No information available.

## Other information

This substance is classified as hazardous according to Regulation (EC) No 1272 (2008).

#### 12. Ecological information

## **Ecotoxicity**

The product is not: Ecotoxic.

# Persistence and degradability

The product has not been tested.

#### **Bioaccumulative potential**

The product has not been tested.

#### <u>Mobility in soil</u>

The product has not been tested.

#### Endocrine disrupting properties

This substance does not have endocrine disrupting properties with respect to non-target organisms.

# Other adverse effects

No information available.

#### **Further information**

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

#### 13. Disposal considerations

#### Waste treatment methods

#### **Disposal recommendations**

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

## Contaminated packaging

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

#### 14. Transport information

#### U.S. DOT 49 CFR 172.101

N

| <u>UN number or ID number:</u><br><u>Proper shipping name:</u><br><u>Transport hazard class(es):</u><br><u>Packing group:</u><br>Hazard label: | UN 1993<br>FLAMMABLE LIQUIDS, N.O.S.<br>3<br>III<br>3 |
|--|---|
| Marine transport (IMDG)  |   |
| UN number or ID number:  | UN 1993   |
| UN proper shipping name:   | FLAMMABLE LIQUID, N.O.S.                              |
| <u>Transport hazard class(es):</u>   | 3   |
| Packing group:   | 111   |
| Hazard label:  | 3   |
|  |   |



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|  |   |             |
|  |   |             |
| Special Provisions:  | 223 274 955   |             |
| Limited quantity:  | 5 L   |             |
| Excepted quantity:   | E1  |             |
| EmS:   | F-E, S-E  |             |
| Air transport (ICAO-TI/IATA-DGR)                                   |   |             |
| <u>UN number or ID number:</u><br>UN proper shipping name:         | UN 1993<br>FLAMMABLE LIQUID, N.O.S.   |             |
| Transport hazard class(es):  | 3   |             |
| Packing group:   |   |             |
| Hazard label:  | 3   |             |
|  |   |             |
|  |   |             |
|  | 3   |             |
| Special Provisions:  | A3  |             |
| Limited quantity Passenger:<br>Passenger LQ:                       | 10 L<br>Y344  |             |
| Excepted quantity:   | E1  |             |
| IATA-packing instructions - Passenger:                             | 355   |             |
| IATA-max. quantity - Passenger:                                    | 60 L  |             |
| IATA-packing instructions - Cargo:                                 | 366   |             |
| IATA-max. quantity - Cargo:  | 220 L   |             |
| Environmental hazards  |   |             |
| ENVIRONMENTALLY HAZARDOUS:   | No  |             |
| Special precautions for user                                       |   |             |
| Warning: Combustible liquid.                                       | MAPPOL 72/79 and the IPC Code   |             |
| Transport in bulk according to Annex II of<br>not applicable       | MARPOL 73/78 and the IBC Code   |             |
|  |   |             |
| 15. Regulatory information   |   |             |
| U.S. Regulations   |   |             |
| National regulatory information                                    |   |             |
| SARA Section 311/312 Hazards:                                      |   |             |
|  | DROFURAN-3-THIOL (57124-87-5): Fire hazard, Immediate (acute)               |             |
| health hazard  |   |             |
| State Regulations  |   |             |
| -  | ment Act of 1986 (Proposition 65, State of California)                      |             |
| I his product can not expose you to ch<br>other reproductive harm. | nemicals known to the State of California to cause cancer, birth defects or |             |
| ·  |   |             |
| 16. Other information  |   |             |
| Changes  |   |             |
| Revision date:   | 12/06/2023  |             |
|  |   |             |
| Revision No:   | 104   |             |



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Abbreviations and acronyms ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonized System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service LC50: Lethal concentration, 50% LD50: Lethal dose, 50% CLP: Classification, labelling and Packaging REACH: Registration. Evaluation and Authorization of Chemicals GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals UN: United Nations DNEL: Derived No Effect Level DMFL: Derived Minimal Effect Level PNEC: Predicted No Effect Concentration ATE: Acute toxicity estimate LL50: Lethal loading, 50% EL50: Effect loading, 50% EC50: Effective Concentration 50% ErC50: Effective Concentration 50%, growth rate NOEC: No Observed Effect Concentration BCF: Bio-concentration factor PBT: persistent, bioaccumulative, toxic vPvB: very persistent, very bioaccumulative RID: Regulations concerning the international carriage of dangerous goods by rail ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures) EmS: Emergency Schedules MFAG: Medical First Aid Guide ICAO: International Civil Aviation Organization MARPOL: International Convention for the Prevention of Marine Pollution from Ships IBC: Intermediate Bulk Container VOC: Volatile Organic Compounds SVHC: Substance of Very High Concern For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations). EC/EEC: European Community/European Economic Community EU: European Union M-factor: Multiplication factor IATA: International Air Transport Association DGR: Dangerous Goods Regulations ICAO: International Civil Aviation Organization **TI: Technical Instructions** VOC: volatile organic compound Other data

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.