

according to 29 CFR 1910.1200(g)

### NATURAL 3-MERCAPTO-2-METHYL-1-BUTANOL

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### 1. Identification

### **Product identifier**

NATURAL 3-MERCAPTO-2-METHYL-1-BUTANOL

Substance name: NATURAL 3-MERCAPTO-2-METHYL-1-BUTANOL

CAS No: 227456-33-9

### 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

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Place: D-46446 Emmerich am Rhein

Telephone: + 49 2822 68561 0 Telefax: + 49 2822 68561 39

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Contact person: Andreas Goertz Telephone: + 49 2822 68561 37

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Internet: www.axxence.de
Responsible Department: QM - Regulatory Affairs

Emergency phone number: +49 2822 68561 99

## 2. Hazard(s) identification

# **Label elements**

### 29 CFR Part 1910.1200

Signal word: Warning

Pictograms:



### **Hazard statements**

Flammable liquid and vapor

### **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.

Wear protective gloves/protective clothing/eye protection/face protection.

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

In case of fire: Use Carbon dioxide (CO2) / Foam / Dry extinguishing powder / Water spray jet to extinguish.

Store in a well-ventilated place. Keep cool.

Dispose of contents/container to Organic waste.

## **Hazards not otherwise classified**

No information available.

# 3. Composition/information on ingredients



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### **Substances**

Sum formula: C5 H12 OS Molecular weight: 120,22 g/mol

### **Hazardous components**

CAS No	Components	Quantity
227456-33-9	NATURAL 3-MERCAPTO-2-METHYL-1-BUTANOL	100 %

### 4. First-aid measures

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

### After inhalation

Provide fresh air

### After contact with skin

Wash with plenty of water. Take off contaminated clothing and wash it before reuse.

### After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water.

#### After indestion

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.

### Specific hazards arising from the chemical

Flammable. Vapors may form explosive mixtures with air.

### Special protective equipment and precautions for fire-fighters

In case of fire: Wear self-contained breathing apparatus.

### Additional information

Use water spray/stream to protect personnel and to cool endangered containers. 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.

# **Environmental precautions**

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

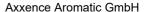
### Methods and material for containment and cleaning up

## 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





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Personal protection equipment (PPE): see section 8

Disposal: see section 13

## 7. Handling and storage

### Precautions for safe handling

### Advice on safe handling

No special measures are necessary.

### 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

Take off contaminated clothing. Wash hands before breaks and after work. When using do not eat, drink, smoke, sniff.

### Conditions for safe storage, including any incompatibilities

### Requirements for storage rooms and vessels

Keep container tightly closed. 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.

## 8. Exposure controls/personal protection

## **Control parameters**

# Exposure controls



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

### Eye/face protection

Wear eye/face protection.

## 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.

### 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:

Odor: , onion-like

Changes in the physical state

Melting point/freezing point: not determined



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Boiling point or initial boiling point and boiling range:	163 °C		
Flash point:	52,8 °C		
Flammability Solid/liquid: Gas:	not applicable not applicable		
Explosive properties  The product is not: Explosive.			
Lower explosion limits:	not determined		
Upper explosion limits:	not determined		
Self-ignition temperature Solid: Gas:	not applicable not applicable		
Decomposition temperature:	not determined		
pH-Value:	not determined		
Water solubility:	10,88 g/L		
Solubility in other solvents not determined			
Partition coefficient n-octanol/water:	not determined		
Vapor pressure:	not determined		
Density:	1,002 g/cm <sup>3</sup>		
Relative vapour density:	not determined		
Other information			
Information with regard to physical hazard class Oxidizing properties Not oxidising.	sses		

# Other safety characteristics

Solid content: not determined Evaporation rate: not determined

# 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.





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### 11. Toxicological information

### Information on toxicological effects

### **Acute toxicity**

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

### Irritation and corrosivity

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

### Sensitizing effects

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

### Carcinogenic/mutagenic/toxic effects for reproduction

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

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

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

### 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.

## 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.

### Mobility in soil

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



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### U.S. DOT 49 CFR 172.101

UN number or ID number: UN 1993

<u>Proper shipping name:</u> flammable liquids, n.o.s.

Transport hazard class(es):

Packing group:
Hazard label:

3



### Marine transport (IMDG)

UN number or ID number: UN 1993

**UN proper shipping name:** FLAMMABLE LIQUID, N.O.S.

Transport hazard class(es):3Packing group:IIIHazard label:3



Special Provisions: 223, 274, 955

Limited quantity: 5 L

Excepted quantity: E1

EmS: F-E, S-E

# Air transport (ICAO-TI/IATA-DGR)

UN number or ID number: UN 1993

UN proper shipping name: FLAMMABLE LIQUID, N.O.S.

Transport hazard class(es):

Packing group:
Hazard label:

3



Special Provisions:

Limited quantity Passenger:

Passenger LQ:

Excepted quantity:

A3

10 L

Y344

Excepted quantity:

E1

IATA-packing instructions - Passenger:355IATA-max. quantity - Passenger:60 LIATA-packing instructions - Cargo:366IATA-max. quantity - Cargo:220 L

## **Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: No

# Special precautions for user

No dangerous good in sense of this transport regulation.

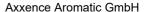
## Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

No dangerous good in sense of this transport regulation.

# 15. Regulatory information

# **U.S. Regulations**

## **State Regulations**





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### Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65, State of California)

This product can not expose you to chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

### 16. Other information

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### Abbreviations and acronyms

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** 

CAS: Chemical Abstracts Service
DNEL: Derived No Effect Level
DMEL: Derived Minimal Effect Level
PNEC: Predicted No Effect Concentration

ATE: Acute toxicity estimate LC50: Lethal concentration, 50%

LD50: Lethal dose, 50% 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

ADR: Accord européen sur le transport des marchandises dangereuses par Route

(European Agreement concerning the International Carriage of Dangerous Goods by Road)

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)

IMDG: International Maritime Code for Dangerous Goods

EmS: Emergency Schedules
MFAG: Medical First Aid Guide

IATA: International Air Transport Association 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 table at http://abbrev.esdscom.eu

## 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.