

according to Regulation (EC) No 1907/2006

NATURAL ISOAMYL ISO BUTYRATE

Revision date: 13.10.2022

Product code: 350700

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

1.1. Product identifier

NATURAL ISOAMYL ISO BUTYRATE

| Substance name: | NATURAL ISOAMYL ISO BUTYRATE |
|-----------------|------------------------------|
| CAS No: | 2050-01-3 |
| EC No: | 218-078-1 |

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

Use of the substance/mixture

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

1.3. 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 | |
| 1.4. Emergency telephone | +49 2822 68561 99 | |

number:

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Flam. Liq. 3; H226

Full text of hazard statements: see SECTION 16.

2.2. Label elements

Regulation (EC) No 1272/2008

Signal word: Warning

Pictograms:



Hazard statements

H226

Flammable liquid and vapour.

Precautionary statements

| Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
|--|
| Keep container tightly closed. |
| Ground and bond container and receiving equipment. |
| Use explosion-proof electrical/ventilating/lighting equipment. |
| Use non-sparking tools. |
| Take action to prevent static discharges. |
| Wear protective gloves/protective clothing/eye protection/face protection/hearing protection. |
| |



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|---------------------------|--|--------------|
| P303+P361+P353 | IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. | |
| P370+P378 | In case of fire: Use Water spray jet, Carbon dioxide (CO2), Foam, Extinguishing powder to extinguish. | 1 |
| P403+P235 | Store in a well-ventilated place. Keep cool. | |
| P501 | Dispose of contents/container to organic waste. | |
| 2.2 Other hererde | | |

2.3. Other hazards No information available.

SECTION 3: Composition/information on ingredients

3.1. Substances

| Sum formula: | C9 H18 O2 |
|-------------------|--------------|
| Molecular weight: | 158,24 g/mol |

Relevant ingredients

| CAS No | Chemical name | | | Quantity | | |
|-----------|---|--|--|----------|--|--|
| | EC No Index No REACH No | | | | | |
| | Classification (Regulation (EC) No 1272/2008) | | | | | |
| 2050-01-3 | NATURAL ISOAMYL ISO BUTYRATE | | | 100 % | | |
| | 218-078-1 | | | | | |
| | Flam. Liq. 3; H226 | | | | | |

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

SECTION 4: First aid measures

4.1. 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 ingestion

Rinse mouth immediately and drink 1 glass of of water.

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

No information available.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Carbon dioxide (CO2), Foam, Extinguishing powder.

Unsuitable extinguishing media

Water.

5.2. Special hazards arising from the substance or mixture

Flammable. Vapours can form explosive mixtures with air.



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5.3. Advice for firefighters

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

Additional information

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

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General advice

Remove all sources of ignition.

6.2. Environmental precautions

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

6.3. 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.

6.4. Reference to other sections

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

SECTION 7: Handling and storage

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

7.2. 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.

7.3. Specific end use(s)

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

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.2. Exposure controls



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Eye/face protection

Wear eye protection/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.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| Physical state: | Liquid |
|--|------------------------|
| Colour: | not determined |
| Melting point/freezing point: | 169 °C |
| Boiling point or initial boiling point and | 169 C |
| boiling range: Flammability: | not applicable |
| Flattinability: | not applicable |
| Lower explosion limits: | not determined |
| Upper explosion limits: | not determined |
| Flash point: | 54 °C |
| Auto-ignition temperature: | not determined |
| Decomposition temperature: | not determined |
| pH-Value: | not determined |
| Water solubility: | 0,136 g/l |
| (at 25 °C) | |
| Solubility in other solvents | |
| not determined | |
| Partition coefficient n-octanol/water: | 3,0 |
| Vapour pressure: | not determined |
| Density (at 20 °C): | 0,86 g/cm ³ |
| Relative vapour density: | 5,4 |
| (at 20 °C) | |
| 9.2. Other information | |
| Information with regard to physical h | azard classes |
| Explosive properties | |
| not explosive according to EU A.14 | |
| Oxidizing properties | |
| The product is not: oxidising. | |
| Other safety characteristics | |
| Evaporation rate: | not determined |



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Solid content:

0%

SECTION 10: Stability and reactivity

10.1. Reactivity

Flammable.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

No known hazardous reactions.

10.4. Conditions to avoid

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

10.5. Incompatible materials

No information available.

10.6. Hazardous decomposition products

No known hazardous decomposition products.

SECTION 11: Toxicological information

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

Acute toxicity

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

Irritation and corrosivity

Skin corrosion/irritation: Based on available data, the classification criteria are not met. Serious eye damage/eye irritation: Based on available data, the classification criteria are not met.

Sensitising 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.

STOT-single exposure

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

STOT-repeated exposure

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

Aspiration hazard

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

11.2. Information on other hazards

Endocrine disrupting properties

No information available.

SECTION 12: Ecological information

12.1. Toxicity

The product is not: Ecotoxic.

12.2. Persistence and degradability

The product has not been tested.

12.3. Bioaccumulative potential

The product has not been tested.



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Partition coefficient n-octanol/water

| CAS No | AS No Chemical name | |
|-----------|------------------------------|-----|
| 2050-01-3 | NATURAL ISOAMYL ISO BUTYRATE | 3,0 |

12.4. Mobility in soil

The product has not been tested.

12.5. Results of PBT and vPvB assessment

This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.

The product has not been tested.

12.6. Endocrine disrupting properties

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

12.7. 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.

SECTION 13: Disposal considerations

13.1. 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.

List of Wastes Code - residues/unused products

160305 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; off-specification batches and unused products; organic wastes containing hazardous substances; hazardous waste

List of Wastes Code - used product

160305 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; off-specification batches and unused products; organic wastes containing hazardous substances; hazardous waste

List of Wastes Code - contaminated packaging

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by hazardous substances; hazardous waste

Contaminated packaging

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

SECTION 14: Transport information

Land transport (ADR/RID)

| 14.1. UN number or ID number: | UN 2620 |
|-----------------------------------|----------------|
| 14.2. UN proper shipping name: | AMYL BUTYRATES |
| 14.3. Transport hazard class(es): | 3 |
| 14.4. Packing group: | III |
| Hazard label: | 3 |
| Classification code: | F1 |
| Limited quantity: | 5 L |
| Excepted quantity: | E1 |
| Transport category: | 3 |



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| Hazard No: | 30 | |
| Tunnel restriction code: | D/E | |
| Other applicable information (land tran E1 | sport) | |
| Inland waterways transport (ADN) | | |
| 14.1. UN number or ID number: | UN 2620 | |
| 14.2. UN proper shipping name: | AMYL BUTYRATES | |
| 14.3. Transport hazard class(es): | 3 | |
| 14.4. Packing group: | III | |
| Hazard label: | 3 | |
| Classification and a | 3 | |
| Classification code: Limited quantity: | F1 5 L | |
| Excepted quantity: | 5L E1 | |
| Other applicable information (inland wa | | |
| E1 | | |
| Marine transport (IMDG) | | |
| 14.1. UN number or ID number: | UN 2620 | |
| 14.2. UN proper shipping name: | AMYL BUTYRATES | |
| 14.3. Transport hazard class(es): | 3 | |
| 14.4. Packing group: | III | |
| Hazard label: | 3 | |
| | | |
| Special Provisions: | - | |
| Limited quantity: | 5 L | |
| Excepted quantity: | E1 | |
| EmS: | F-E, S-D | |
| Air transport (ICAO-TI/IATA-DGR) | | |
| 14.1. UN number or ID number: | UN 2620 | |
| 14.2. UN proper shipping name: | | |
| 14.3. Transport hazard class(es): | 3 III | |
| <u>14.4. Packing group:</u> Hazard label: | 3 | |
| | | |
| Limited quantity Passenger: | 10 L | |
| Passenger LQ: | Y344 | |
| Excepted quantity: | E1 | |
| IATA-packing instructions - Passenger: | 355 | |
| IATA-max. quantity - Passenger: | 60 L | |
| IATA-packing instructions - Cargo: | 366 | |
| IATA-max. quantity - Cargo: I 4.5. Environmental hazards | 220 L | |
| ENVIRONMENTALLY HAZARDOUS: | No | |
| 14.6. Special precautions for user | | |



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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

EU regulatory information

| Lo regulatory information | |
|--|--|
| Restrictions on use (REACH, annex XVII): Entry 3, Entry 40 | |
| Directive 2004/42/EC on VOC in paints and varnishes: | 100 % (860 g/l) |
| Information according to Directive 2012/18/EU (SEVESO III): | P5c FLAMMABLE LIQUIDS |
| Additional information | |
| To follow: 850/2004/EC, 1107/2009/EC, | , 649/2012/EC |
| National regulatory information | |
| Employment restrictions: | Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC). |
| Water hazard class (D): | 3 - highly hazardous to water |
| <u>15.2. Chemical safety assessment</u> For this substance a chemical safety as | sessment has not been carried out. |
| | |

SECTION 16: Other information

Changes

This data sheet contains changes from the previous version in section(s): 1,3,6,7,9,11,16.



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Abbreviations and acronyms Flam. Lig: Flammable liquid 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 DNFL: 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 table at http://abbrev.esdscom.eu For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations). Relevant H and EUH statements (number and full text) H226 Flammable liquid and vapour.

Further Information

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.



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Identified uses

| N | Short title | LCS | SU | PC | PROC | ERC | AC | TF | Specification |
|---|-------------|-----|----|----|------|-----|----|----|---------------|
| | | - | 4 | 28 | - | - | - | - | Flavour |

LCS: Life cycle stages

PC: Product categories

ERC: Environmental release categories

TF: Technical functions

SU: Sectors of use PROC: Process categories

AC: Article categories