SAFETY DATA SHEET

3-Methylbutyric acid
10170

Version / Revision 4
Supersedes Version 3.01***
Revision Date 17-Jul-2018
Issuing date 17-Jul-2018

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

1.1. Product identifier

Identification of the substance/preparation

3-Methylbutyric acid

CAS-No 503-74-2
EC No. 207-975-3
Registration number (REACH) 01-2119959864-19***

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

Identified uses
Transported isolated intermediate (1907/2006)***

Uses advised against
None

1.3. Details of the supplier of the safety data sheet

Company/Undertaking OXEA GmbH
Rheinpromenade 4A
D-40789 Monheim
Germany

Product Information
Product Stewardship
FAX: +49 (0)208 693 2053
email: psq@oxea-chemicals.com

1.4. Emergency telephone number

Emergency telephone number +44 (0) 1235 239 670 (UK)
available 24/7***

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

This substance is classified based on Directive 1272/2008/EC and its amendments (CLP Regulation)

Skin corrosion/irritation Category 1B, H314***
Serious eye damage/eye irritation Category 1, H318***

Additional information
For full text of Hazard- and EU Hazard-statements see SECTION 16.***

2.2. Label elements

Labelling according to Regulation 1272/2008/EC and its amendments (CLP Regulation).***

Hazard pictograms
SAFETY DATA SHEET

3-Methylbutyric acid
10170

Signal word

Danger

Hazard statements
H314: Causes severe skin burns and eye damage.

Precautionary statements
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P301 + P330 + P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P304 + P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310: Immediately call a POISON CENTER/doctor.

2.3. Other hazards

Vapour/air-mixtures are explosive at intense warming

PBT and vPvB assessment
This substance is not considered to be persistent, bioaccumulating nor toxic (PBT), nor very persistent nor very bioaccumulating (vPvB)

SECTION 3: Composition / information on ingredients

3.1. Substances

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS-No</th>
<th>REACH-No</th>
<th>1272/2008/EC</th>
<th>Concentration (%)</th>
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</thead>
<tbody>
<tr>
<td>Isovaleric acid</td>
<td>503-74-2</td>
<td>01-2119959864-19**</td>
<td>Skin Corr. 1B; H314 Eye Dam. 1; H318</td>
<td>&gt; 99,0</td>
</tr>
</tbody>
</table>

For full text of Hazard- and EU Hazard-statements see SECTION 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation
Keep at rest. Aerate with fresh air. When symptoms persist or in all cases of doubt seek medical advice.

Skin
Wash off immediately with soap and plenty of water. When symptoms persist or in all cases of doubt seek medical advice.

Eyes
Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses. Immediate medical attention is required.
Ingestion
Call a physician immediately. Do not induce vomiting without medical advice.

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

Main symptoms
cough, dizziness, nausea, shortness of breath, unconsciousness, gastrointestinal discomfort.

Special hazard
Lung irritation, Lung oedema, Dermatitis.

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

General advice
Remove contaminated, soaked clothing immediately and dispose of safely. First aider needs to protect himself.

Treat symptomatically. If ingested, flush stomach and compensate acidosis. In case of lung irritation, first treatment with cortisone spray.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media
foam, dry chemical, carbon dioxide (CO2), water spray

Unsuitable Extinguishing Media
Do not use a solid water stream as it may scatter and spread fire.

5.2. Special hazards arising from the substance or mixture

Under conditions giving incomplete combustion, hazardous gases produced may consist of:
carbon monoxide (CO)
carbon dioxide (CO2)
Combustion gases of organic materials must in principle be graded as inhalation poisons
Vapours are heavier than air and may spread along floors
Vapour/air-mixtures are explosive at intense warming

5.3. Advice for firefighters

Special protective equipment for firefighters
Fire fighter protection should include a self-contained breathing apparatus (NIOSH-approved or EN 133) and full fire-fighting turn out gear.

Precautions for firefighting
Cool containers / tanks with water spray. Water run-off and vapor cloud may be corrosive. Dike and collect water used to fight fire. Keep people away from and upwind of fire.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel: For personal protective equipment see section 8. Avoid contact with skin and eyes. Avoid breathing vapors or mists. Keep people away from and upwind of spill/leak. Ensure adequate
ventilation, especially in confined areas. Keep away from heat and sources of ignition. For emergency responders: Personal protection see section 8.***

6.2. Environmental precautions

Prevent further leakage or spillage. Do not discharge product into the aquatic environment without pretreatment (biological treatment plant).

6.3. Methods and material for containment and cleaning up

Methods for containment
Stop the flow of material, if possible without risk. Dike spilled material, where this is possible.

Methods for cleaning up
Soak up with inert absorbent material. Keep in suitable, closed containers for disposal. If liquid has been spilt in large quantities clean up promptly by scoop or vacuum. Dispose of in accordance with local regulations. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours).

6.4. Reference to other sections

For personal protective equipment see section 8.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling
Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product. Provide sufficient air exchange and/or exhaust in work rooms.

Hygiene measures
When using, do not eat, drink or smoke. Take off all contaminated clothing immediately. Wash hands before breaks and immediately after handling the product.

Advice on the protection of the environment
See Section 8: Environmental exposure controls.

Incompatible products
bases
amines
oxidizing agents

7.2. Conditions for safe storage, including any incompatibilities

Advice on protection against fire and explosion
Keep away from sources of ignition - No smoking. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). In case of fire, emergency cooling with water spray should be available. Ground and bond containers when transferring material. Vapour/air-mixtures are explosive at intense warming.

Technical measures/Storage conditions
Keep containers tightly closed in a cool, well-ventilated place. Handle and open container with care. Keep at temperatures between 0 and 38 °C (32 and 100 °F).

Suitable material
3-Methylbutyric acid
10170

stainless steel, aluminium

Unsuitable material
nickel, copper

Temperature class
T2

7.3. Specific end use(s)
Transported isolated intermediate (1907/2006)***

SECTION 8: Exposure controls / personal protection

8.1. Control parameters

Exposure limits European Union

No exposure limits established.

Exposure limits UK

No exposure limits established.

DNEL & PNEC

This substance is registered as intermediate under strictly controlled conditions.***

Isovaleric acid, CAS: 503-74-2

Environment

<table>
<thead>
<tr>
<th>Environment</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>PNEC aqua - freshwater</td>
<td>29.3 µg/l</td>
</tr>
<tr>
<td>PNEC aqua - marine water</td>
<td>2.93 µg/l</td>
</tr>
<tr>
<td>PNEC aqua - intermittent releases</td>
<td>0.293 mg/l</td>
</tr>
<tr>
<td>PNEC STP</td>
<td>22.4 mg/l</td>
</tr>
<tr>
<td>PNEC sediment - freshwater</td>
<td>117.3 µg/kg</td>
</tr>
<tr>
<td>PNEC sediment - marine water</td>
<td>11.7 µg/kg</td>
</tr>
<tr>
<td>PNEC soil</td>
<td>6.25 µg/kg</td>
</tr>
</tbody>
</table>

8.2. Exposure controls

Special adaptations (REACH)
The substance has been registered as an transported isolated intermediate and must be handled throughout its life cycle under strictly controlled conditions in accordance with Article 18.4, REACH.***

Appropriate Engineering controls
General or dilution ventilation is frequently insufficient as the sole means of controlling employee exposure. Local ventilation is usually preferred. Explosion-proof equipment (for example fans, switches, and grounded ducts) should be used in mechanical ventilation systems.

Personal protective equipment

General industrial hygiene practice
Avoid contact with skin, eyes and clothing. Do not breathe vapours or spray mist. Ensure that eyewash stations and safety showers are close to the workstation location.

**Hygiene measures**
When using, do not eat, drink or smoke. Take off all contaminated clothing immediately. Wash hands before breaks and immediately after handling the product.

**Eye protection**
Tightly fitting safety goggles. In addition to goggles, wear a face shield if there is a reasonable chance for splash to the face.
Equipment should conform to EN 166

**Hand protection**
Wear protective gloves. Recommendations are listed below. Other protective material may be used, depending on the situation, if adequate degradation and permeation data is available. If other chemicals are used in conjunction with this chemical, material selection should be based on protection for all chemicals present.

<table>
<thead>
<tr>
<th>Suitable material</th>
<th>nitrile rubber</th>
</tr>
</thead>
<tbody>
<tr>
<td>Evaluation</td>
<td>according to EN 374: level 6</td>
</tr>
<tr>
<td>Glove thickness</td>
<td>approx 0,55 mm</td>
</tr>
<tr>
<td>Break through time</td>
<td>&gt; 480 min</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Suitable material</th>
<th>polyvinylchloride</th>
</tr>
</thead>
<tbody>
<tr>
<td>Evaluation</td>
<td>Information derived from practical experience</td>
</tr>
<tr>
<td>Glove thickness</td>
<td>approx 0,8 mm</td>
</tr>
</tbody>
</table>

**Skin and body protection**
Impervious clothing. Wear face-shield and protective suit for abnormal processing problems.

**Respiratory protection**
Respirator with A filter. Full mask with above mentioned filter according to producers using requirements or self-contained breathing apparatus. Equipment should conform to EN 136 or EN 140 and EN 143.

**Environmental exposure controls**
If possible use in closed systems. If leakage can not be prevented, the substance needs to be suck off at the emersion point, if possible without danger. If recycling is not practicable, dispose of in compliance with local regulations. Inform the responsible authorities in case of leakage into the atmosphere, or of entry into waterways, soil or drains.

**Additional advice**
Further details on substance data can be found in the registration dossier under the following link:

### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
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</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>liquid</td>
</tr>
<tr>
<td>Colour</td>
<td>colourless</td>
</tr>
<tr>
<td>Odour</td>
<td>unpleasant</td>
</tr>
<tr>
<td>Odour threshold</td>
<td>0,02 mg/m³</td>
</tr>
<tr>
<td>pH</td>
<td>3,1 (1 % in water @ 25 °C (77 °F))</td>
</tr>
<tr>
<td>Melting point/range</td>
<td>- 31 °C (Pour point)</td>
</tr>
<tr>
<td>Boiling point/range</td>
<td>178,5 °C @ 1013 hPa</td>
</tr>
<tr>
<td>Flash point</td>
<td>80 °C</td>
</tr>
</tbody>
</table>
SAFETY DATA SHEET

3-Methylbutyric acid
10170

Method EN 22719
Evaporation rate No data available
Flammability (solid, gas) Does not apply, the substance is a liquid
Lower explosion limit 1.4 Vol %
Upper explosion limit 7.3 Vol %

Vapour pressure

<table>
<thead>
<tr>
<th>Method</th>
<th>hPa</th>
<th>kPa</th>
<th>atm</th>
<th>°C</th>
<th>°F</th>
</tr>
</thead>
<tbody>
<tr>
<td>EN 22719</td>
<td>6.6</td>
<td>0.66</td>
<td>0.007</td>
<td>50</td>
<td>122</td>
</tr>
</tbody>
</table>

Vapour density

3.5 (Air = 1) @ 20 °C (68 °F)

Relative density

<table>
<thead>
<tr>
<th>Method</th>
<th>DIN 51757</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.9258</td>
<td>20 68</td>
</tr>
</tbody>
</table>

Solubility

48 g/l @ 20 °C, in water, OECD 105***

Log Pow

No data available

Autoignition temperature

420 °C

Decomposition temperature

No data available

Viscosity

2.4 mPa*s @ 20 °C

Explosive properties

Does not apply, substance is not explosive. There are no chemical groups associated with explosive properties

Oxidizing properties

Does not apply, substance is not oxidising. There are no chemical groups associated with oxidizing properties

9.2. Other information

Molecular weight

102.13

Molecular formula

C5 H10 O2

Refractive index

1.403 @ 20 °C

SECTION 10: Stability and Reactivity

10.1. Reactivity

The reactivity of the product corresponds to the typical reactivity shown by the substance group as described in any text book on organic chemistry.

10.2. Chemical stability

Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

Hazardous polymerisation does not occur.***

10.4. Conditions to avoid

Avoid contact with heat, sparks, open flame and static discharge. Avoid any source of ignition.

10.5. Incompatible materials
bases, amines, oxidizing agents.

10.6. Hazardous decomposition products

No decomposition if stored and applied as directed.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Likely routes of exposure: Eye contact, Skin contact, Inhalation, Ingestion***

<table>
<thead>
<tr>
<th>Acute toxicity</th>
<th>Isovaleric acid (503-74-2)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Routes of Exposure</td>
<td>Endpoint</td>
</tr>
<tr>
<td>Oral</td>
<td>LD50</td>
</tr>
<tr>
<td>Dermal</td>
<td>LD50</td>
</tr>
<tr>
<td>Inhalative</td>
<td>LC0</td>
</tr>
</tbody>
</table>

**Isovaleric acid, CAS: 503-74-2**

Assessment

Based on available data, the classification criteria are not met for:

- Acute oral toxicity
- Acute dermal toxicity
- Acute inhalation toxicity***

Irritation and corrosion

**Isovaleric acid (503-74-2)**

Target Organ Effects: Species, Result, Method

Skin: rabbit corrosive OECD 404 1h

**Isovaleric acid, CAS: 503-74-2**

Assessment

The available data lead to the classification given in section 2***

Sensitization

**Isovaleric acid (503-74-2)**

Target Organ Effects: Species, Evaluation, Method

Skin: Human experience not sensitizing OECD 406 1 %, in Petrolatum

**Isovaleric acid, CAS: 503-74-2**

Assessment

Based on available data, the classification criteria are not met for:

- Skin sensitization
- For respiratory sensitization, no data are available***

Subacute, subchronic and prolonged toxicity

**Isovaleric acid (503-74-2)**

<table>
<thead>
<tr>
<th>Type</th>
<th>Dose</th>
<th>Species</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Subchronic toxicity</td>
<td>NOAEL: 5000 mg/kg/d (90d)</td>
<td>rat, male</td>
<td>Oral read across</td>
</tr>
<tr>
<td>Subchronic toxicity</td>
<td>NOAEL: 1068 mg/kg/d (90d)</td>
<td>rat, male</td>
<td>OECD 408 Oral read across</td>
</tr>
</tbody>
</table>
SAFETY DATA SHEET

3-Methylbutyric acid
10170

Subchronic toxicity

| NOAEL: 1431 mg/kg/d (90d) | rat, female | OECD 408 | Oral read across |

Isovaleric acid, CAS: 503-74-2

Assessment

Based on available data, the classification criteria are not met for:

STOT RE***

Carcinogenicity, Mutagenicity, Reproductive toxicity

<table>
<thead>
<tr>
<th>Isovaleric acid (503-74-2)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mutagenicity</td>
</tr>
<tr>
<td>Salmonella typhimurium negative OECD 471 (Ames) read across</td>
</tr>
<tr>
<td>Mutagenicity</td>
</tr>
<tr>
<td>mouse negative OECD 474 read across</td>
</tr>
<tr>
<td>Developmental Toxicity</td>
</tr>
<tr>
<td>NOAEL 600 mg/kg/d rat OECD 414, Oral Maternal toxicity, Developmental toxicity, Teratogenicity</td>
</tr>
</tbody>
</table>

Isovaleric acid, CAS: 503-74-2

CMR Classification

The available data on CMR properties are summarized in the table above. They do not indicate a classification into categories 1A or 1B***

Evaluation

In vitro tests did not show mutagenic effects

Did not show reprotoxic effects in animal experiments***

Isovaleric acid, CAS: 503-74-2

Main symptoms

cough, dizziness, nausea, shortness of breath, unconsciousness, gastrointestinal discomfort.

Target Organ Systemic Toxicant - Single exposure

Based on available data, the classification criteria are not met for:

STOT SE***

Target Organ Systemic Toxicant - Repeated exposure

Based on available data, the classification criteria are not met for:

STOT RE***

Aspiration toxicity

Due to the viscosity, this product does not present an aspiration hazard***

Note

Handle in accordance with good industrial hygiene and safety practice. Further details on substance data can be found in the registration dossier under the following link:


SECTION 12: Ecological information

12.1. Toxicity

Acute aquatic toxicity

<table>
<thead>
<tr>
<th>Isovaleric acid (503-74-2)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Species</td>
</tr>
<tr>
<td>Pimephales promelas (fathead minnow) 96h LC50: 77 mg/l OECD 203 read across</td>
</tr>
<tr>
<td>Daphnia magna (Water flea) 48h EC50: 51.25 mg/l DIN 38412, part 11 read</td>
</tr>
</tbody>
</table>
12.2. Persistence and degradability

Isovaleric acid, CAS: 503-74-2
Biodegradation
58 - 66 % (8 d), activated sludge, aerobic, non-adapted, OECD 301 C.

12.3. Bioaccumulative potential

<table>
<thead>
<tr>
<th>Isovaleric acid (503-74-2)</th>
<th>Type</th>
<th>Result</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>log Pow*</td>
<td>1.7***</td>
<td>measured, OECD 117***</td>
</tr>
<tr>
<td></td>
<td>BCF***</td>
<td>3.162***</td>
<td>calculated***</td>
</tr>
</tbody>
</table>

12.4. Mobility in soil

<table>
<thead>
<tr>
<th>Isovaleric acid (503-74-2)</th>
<th>Type</th>
<th>Result</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Surface tension</td>
<td>63.3 mN/m (1 g/l @ 20°C (68°F))***</td>
<td>OECD 115***</td>
</tr>
</tbody>
</table>

12.5. Results of PBT and vPvB assessment

Isovaleric acid, CAS: 503-74-2
PBT and vPvB assessment
This substance is not considered to be persistent, bioaccumulating nor toxic (PBT), nor very persistent nor very bioaccumulating (vPvB)***

12.6. Other adverse effects

Isovaleric acid, CAS: 503-74-2
No data available***

Note
Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product Information
Disposal required in compliance with all waste management related state and local regulations. The choice of the appropriate method of disposal depends on the product composition by the time of disposal as well as the local statutes and possibilities for disposal.
Hazardous waste according to European Waste Catalogue (EWC)
## SECTION 14: Transport information

**ADR/RID**

<table>
<thead>
<tr>
<th>14.1. UN number</th>
<th>*** UN 3265</th>
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<tbody>
<tr>
<td>14.2. UN proper shipping name</td>
<td>*** Corrosive liquid, acidic, organic, n.o.s. (3-Methylbutyric acid)</td>
</tr>
<tr>
<td>14.3. Transport hazard class(es)</td>
<td>*** 8</td>
</tr>
<tr>
<td>14.4. Packing group</td>
<td>*** II</td>
</tr>
<tr>
<td>14.5. Environmental hazards</td>
<td>no***</td>
</tr>
<tr>
<td>14.6. Special precautions for user</td>
<td>***</td>
</tr>
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</table>

**ADN**

<table>
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<th>14.1. UN number</th>
<th>*** UN 3265</th>
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<tr>
<td>14.2. UN proper shipping name</td>
<td>*** Corrosive liquid, acidic, organic, n.o.s. (3-Methylbutyric acid)</td>
</tr>
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<td>14.3. Transport hazard class(es)</td>
<td>*** 8</td>
</tr>
<tr>
<td>14.4. Packing group</td>
<td>*** II</td>
</tr>
<tr>
<td>14.5. Environmental hazards</td>
<td>no***</td>
</tr>
<tr>
<td>14.6. Special precautions for user</td>
<td>***</td>
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</table>

**ICAO-TI / IATA-DGR**

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<thead>
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<th>14.1. UN number</th>
<th>*** UN 3265</th>
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<td>14.2. UN proper shipping name</td>
<td>*** Corrosive liquid, acidic, organic, n.o.s. (3-Methylbutyric acid)</td>
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<tr>
<td>14.3. Transport hazard class(es)</td>
<td>*** 8</td>
</tr>
<tr>
<td>14.4. Packing group</td>
<td>*** II</td>
</tr>
<tr>
<td>14.5. Environmental hazards</td>
<td>no***</td>
</tr>
<tr>
<td>14.6. Special precautions for user</td>
<td>no data available***</td>
</tr>
</tbody>
</table>

**IMDG**

<table>
<thead>
<tr>
<th>14.1. UN number</th>
<th>*** UN 3265</th>
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<td>14.2. UN proper shipping name</td>
<td>*** Corrosive liquid, acidic, organic, n.o.s. (3-Methylbutyric acid)</td>
</tr>
<tr>
<td>14.3. Transport hazard class(es)</td>
<td>*** 8</td>
</tr>
<tr>
<td>14.4. Packing group</td>
<td>*** II</td>
</tr>
</tbody>
</table>
SAFETY DATA SHEET

3-Methylbutyric acid
10170

SECTION 15: Regulatory information

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

Regulation 1272/2008, Annex VI
not listed

DI 2012/18/EU (Seveso III)
Category not subject

DI 1999/13/EC (VOC Guideline)

<table>
<thead>
<tr>
<th>Component</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isovaleric acid</td>
<td>regulated</td>
</tr>
<tr>
<td>CAS: 503-74-2</td>
<td></td>
</tr>
</tbody>
</table>

International Inventories

Isovaleric acid, CAS: 503-74-2
- AICS (AU)
- DSL (CA)
- IECSC (CN)
- EC-No. 2079753 (EU)
- ENCS (2)-608 (JP)
- ISHL (2)-608 (JP)
- KECI KE-23545 (KR)
- INSQ (MX)
- PICCS (PH)
- TSCA (US)
- NZIoC (NZ)
- TCSI (TW)***

National regulatory information Great Britain

Releases to air (Pollution Inventory Substances)
not subject

Releases to water (Pollution Inventory Substances)
not subject

Releases to sewer (Pollution Inventory Substances)
not subject
For details and further information please refer to the original regulation
15.2. Chemical safety assessment

The Chemical Safety Report (CSR) is not required.

SECTION 16: Other information

Full text of H-Statements referred to under sections 2 and 3
H314: Causes severe skin burns and eye damage.
H318: Causes serious eye damage.

Abbreviations
A table of terms and abbreviations can be found under the following link:

Training advice
For effective first-aid, special training / education is needed.

Sources of key data used to compile the datasheet
Information contained in this safety data sheet is based on Oxea owned data and public sources deemed valid or acceptable. The absence of data elements required by OSHA, ANSI or Annex II, Regulation 1907/2006/EC indicates, that no data meeting these requirements is available.

Further information for the safety data sheet
Changes against the previous version are marked by ***. Observe national and local legal requirements. For more information, other material safety data sheets or technical data sheets please consult the Oxea homepage (www.oxea-chemicals.com).
The annex is not required because the substance is registered as an intermediate under REACh

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End of Safety Data Sheet