SAFETY DATA SHEET

n-Butyric acid
10460
Version / Revision 2.01
Supersedes Version 2.00***
Revision Date 21-Jan-2019
Issuing date 21-Jan-2019

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

1.1. Product identifier
Identification of the substance/preparation n-Butyric acid
CAS-No 107-92-6
EC No. 203-532-3

1.2. Relevant identified uses of the substance or mixture and uses advised against
Use of the Substance / Preparation Intermediate.
Uses advised against None

1.3. Details of the supplier of the safety data sheet
Company/Undertaking OXEA GmbH
Identification 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***
in USA, call 800 424 9300
outside USA, call +1.703.527.3887, collect calls accepted available 24/7***

SECTION 2: Hazards identification

Europe

2.1. Classification of the substance or mixture
This substance is classified based on Directive 1272/2008/EC and its amendments (CLP Regulation)***

- Acute oral toxicity  Category 4, H302***
- 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

![Hazard Pictogram]

Signal word  Danger

Hazard statements  H302: Harmful if swallowed.
H314: Causes severe skin burns and eye damage.

Precautionary statements  P233: Keep container tightly closed.
P260: Do not breathe gas/mist/vapours.
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.
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

Vapours may form explosive mixture with air
Components of the product may be absorbed into the body by inhalation

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

USA

2.1. Classification of the substance or mixture

This substance is classified in accordance with paragraph (d) of §1910.1200 (GHS-US classification).***

Acute oral toxicity  Category 4, H302***
Skin corrosion/irritation  Category 1B, H314***
Serious eye damage/eye irritation  Category 1, H318***
Flammable liquid  Category 4, H227***
Environmental hazard  Aquatic Acute 3; H402***

OSHA Specified Hazards  Not applicable.

2.2. Label elements

Labeling according to §1910.1200 (GHS-US labeling).***
SAFETY DATA SHEET

n-Butyric acid
10460

Hazard symbol(s) ***

Signal word Danger***

Hazard statements
H227: Combustible liquid
H302: Harmful if swallowed.
H314: Causes severe skin burns and eye damage.
H402: Harmful to aquatic life***

Precautionary statements ***

Prevention P210: Keep away from flames and hot surfaces. - No smoking.
P260: Do not breathe gas/mist/vapours.
P264: Wash hands thoroughly after handling.
P270: Do not eat, drink or smoke when using this product.
P273: Avoid release to the environment.
P280: Wear protective gloves/protective clothing/eye protection/face protection.***

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.
P363: Wash contaminated clothing before reuse.***

Storage P403 + P235: Store in a well ventilated place. Keep cool.
P405: Store locked up.***

Disposal P501: Dispose of contents/container in accordance with local regulation.***

2.3. Other hazards
Vapours may form explosive mixture with air
Components of the product may be absorbed into the body by inhalation***

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>
</tr>
</thead>
<tbody>
<tr>
<td>Butyric acid</td>
<td>107-92-6</td>
<td>01-2119488986-11**</td>
<td>Acute Tox. 4; H302</td>
<td>&gt; 99,5</td>
</tr>
</tbody>
</table>
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.

Eyes
Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses. Immediate medical attention is required.

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

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
nausea, vomiting, convulsions, shortness of breath, discomfort.

Special hazard
Lung irritation, Stomach perforation, Lung oedema, Methemoglobinemia.

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.

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
Vapours may form explosive mixture with air
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
Keep people away from and upwind of fire. Cool containers / tanks with water spray. Water run-off and vapor cloud may be corrosive. Dike and collect water used to fight 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
strong 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. Vapours may form explosive mixture with air.***

Technical measures/Storage conditions
Keep containers tightly closed in a cool, well-ventilated place. Handle and open container with care.

Suitable material
stainless steel, Polyethylene

Unsuitable material
iron

Temperature class
T2

7.3. Specific end use(s)
Intermediate under non-strictly controlled conditions
Distribution of substance***

SECTION 8: Exposure controls / personal protection

8.1. Control parameters

Exposure limits European Union
No exposure limits established.

Exposure limits Germany
No exposure limits established.

Exposure limits United States of America
No exposure limits established.

8.2. Exposure controls

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.
SAFETY DATA SHEET

n-Butyric acid
10460

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.

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.

Suitable material: butyl-rubber
Evaluation: according to EN 374: level 6
Glove thickness: approx 0.7 mm
Break through time: approx 480 min

Suitable material: nitrile rubber
Evaluation: according to EN 374: level 6
Glove thickness: approx 0.55 mm
Break through time: > 480 min

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

Respiratory protection
Respirator with filter for organic vapour. Use the indicated respiratory protection if the occupational exposure limit is exceeded and/or in case of product release (dust). Equipment should conform to NIOSH, EN or other applicable national standards.

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. Observe the exposure limits, clean exhaust air if needed. 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.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance: liquid
Colour: colourless
Odour: foul smelling
Odour threshold: 0.001 mg/m³
pH: 2 (50 % in water @ 20 °C (68 °F))
Melting point/range: -7 °C (Pour point)
Boiling point/range: 164 °C @ 1013 hPa***
Flash point: 71 °C @ 1013 hPa***
Method: ISO 2719
SAFETY DATA SHEET

n-Butyric acid
10460

Evaporation rate
No data available

Flammability (solid, gas)
Does not apply, the substance is a liquid

Lower explosion limit
2 Vol %

Upper explosion limit
10 Vol %

Vapour pressure

<table>
<thead>
<tr>
<th>Values</th>
<th>[hPa]</th>
<th>Values [kPa]</th>
<th>Values [atm]</th>
<th>@ °C</th>
<th>@ °F</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>0,1***</td>
<td>0,001***</td>
<td>20</td>
<td>68</td>
<td></td>
<td>DIN EN 13016-2***</td>
</tr>
<tr>
<td>9</td>
<td>0,9***</td>
<td>0,009***</td>
<td>50</td>
<td>122</td>
<td></td>
<td>DIN EN 13016-2***</td>
</tr>
</tbody>
</table>

Vapour density
3,0 (Air = 1) @ 20 °C (68 °F)

Relative density

<table>
<thead>
<tr>
<th>Values</th>
<th>@ °C</th>
<th>@ °F</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>0,957</td>
<td>20</td>
<td>68</td>
<td>DIN 51757</td>
</tr>
</tbody>
</table>

Solubility
miscible, in water, OECD 105***

Log Pow
1,1 (measured), OECD 117

Autoignition temperature
435 °C

Method
DIN 51794

Decomposition temperature
No data available

Viscosity
1,67 mPa*s @ 20 °C

Method
DIN 51562, dynamic

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

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

9.2. Other information

Molecular weight
88,11

Molecular formula
C4 H8 O2

Refractive index
1,398 @ 20 °C

Surface tension
68,5 mN/m (1 g/l @ 20°C (68°F)), OECD 115

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
Vapours may form explosive mixture with air.

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, strong 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   Ingestion, Inhalation, Eye contact, Skin contact***

<table>
<thead>
<tr>
<th>Acute toxicity</th>
<th>Butyric acid (107-92-6)</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>

**Butyric acid, CAS: 107-92-6**
Assessment
The available data lead to the classification given in section 2***

Irritation and corrosion

**Butyric acid (107-92-6)**
Target Organ Effects | Species | Result | Method |
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin</td>
<td>rabbit</td>
<td>corrosive</td>
<td>OECD 404</td>
</tr>
<tr>
<td>Eyes</td>
<td>rabbit</td>
<td>corrosive</td>
<td></td>
</tr>
</tbody>
</table>

**Butyric acid, CAS: 107-92-6**
Assessment
The available data lead to the classification given in section 2
For respiratory irritation, no data are available***

**Butyric acid, CAS: 107-92-6**
Assessment
Skin sensitization was not tested due to the corrosive properties of the substance
For respiratory sensitization, no data are available***

Subacute, subchronic and prolonged toxicity

**Butyric acid (107-92-6)**
Type | Dose | Species | Method |
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Subchronic toxicity***</td>
<td>NOAEC: 500 ppm/d (13 weeks)***</td>
<td>rat***</td>
<td>Inhalation EPA OTS 798.2450***</td>
</tr>
</tbody>
</table>

**Butyric acid, CAS: 107-92-6**
Assessment
Based on available data, the classification criteria are not met for:
STOT RE***

Carcinogenicity, Mutagenicity, Reproductive toxicity
**Butyric acid (107-92-6)**
n-Butyric acid

10460

SAFETY DATA SHEET

Version / Revision 2.01

Type | Dose | Species | Evaluation | Method |
--- | --- | --- | --- | --- |
Mutagenicity |  | CHL | negative | OECD 473 (Chromosomal Aberration) |
Mutagenicity |  | Salmonella typhimurium | negative | OECD 471 (Ames) |
Mutagenicity |  | mouse | negative | OECD 474 |
Developmental Toxicity | LOAEC: 1500 ppm | rat | OECD 414, Inhalative |
Developmental Toxicity | NOAEC: 1500 ppm | rabbit | OECD 414, Inhalative |
Reproductive toxicity | NOAEC: 2000 ppm*** | rat, male/female | OECD 416 |
Mutagenicity |  | CHO (Chinese Hamster Ovary) cells | negative | OECD 476 (Mammalian Gene Mutation) |

Butyric acid, CAS: 107-92-6

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 mutagenic effects in animal experiments

In the absence of specific alerts no cancer testing is required***

Butyric acid, CAS: 107-92-6

Main symptoms:

nausea, vomiting, convulsions, shortness of breath.

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***

Other adverse effects

Components of the product may be absorbed into the body by inhalation.

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:

http://echa.europa.eu/information-on-chemicals/registered-substances.***

SECTION 12: Ecological information

12.1. Toxicity

Acute aquatic toxicity

Butyric acid (107-92-6)

<table>
<thead>
<tr>
<th>Species</th>
<th>Exposure time</th>
<th>Dose</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Daphnia magna (Water flea)</td>
<td>48h</td>
<td>EC50: 51,25 mg/l</td>
<td>read across DIN 38412,</td>
</tr>
</tbody>
</table>
12.2. Persistence and degradability

**Butyric acid, CAS: 107-92-6**

**Biodegradation**

100 % (14 d), Sewage, aerobic, OECD 301 E.

<table>
<thead>
<tr>
<th>Abiotic Degradation</th>
<th>Type</th>
<th>Result</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydrolysis***</td>
<td>not expected***</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Photolysis***</td>
<td>No data available***</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

12.3. Bioaccumulative potential

<table>
<thead>
<tr>
<th>Butyric acid (107-92-6)</th>
<th>Type</th>
<th>Result</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>log Pow***</td>
<td>1.1***</td>
<td>measured, OECD 117***</td>
<td></td>
</tr>
<tr>
<td>log BCF***</td>
<td>0.5***</td>
<td>calculated***</td>
<td></td>
</tr>
</tbody>
</table>

12.4. Mobility in soil

<table>
<thead>
<tr>
<th>Butyric acid (107-92-6)</th>
<th>Type</th>
<th>Result</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Surface tension***</td>
<td>68,5 mN/m (1 g/l @ 20°C (68°F))***</td>
<td>OECD 115***</td>
<td></td>
</tr>
<tr>
<td>Adsorption/Desorption***</td>
<td>log Koc: 1,69 log Koc: 1,69 @ pH 7***</td>
<td>calculated***</td>
<td></td>
</tr>
<tr>
<td>Distribution to environmental compartments***</td>
<td>Air: 6,16 % Soil: 57,1 % Water: 36,7 % Sediment: 0,07 %***</td>
<td>calculated Fugacity Model Level III***</td>
<td></td>
</tr>
</tbody>
</table>

12.5. Results of PBT and vPvB assessment

**Butyric acid, CAS: 107-92-6**

**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

**Butyric acid, CAS: 107-92-6**

No data available***
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)

Uncleaned empty packaging
Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse.

SECTION 14: Transport information

ICAO-TI / IATA-DGR

14.1. UN number *** UN 2820
14.2. UN proper shipping name *** Butyric acid***
14.3. Transport hazard class(es) *** 8
14.4. Packing group *** III
14.5. Environmental hazards no***
14.6. Special precautions for user no data available***

IMDG

14.1. UN number *** UN 2820
14.2. UN proper shipping name *** Butyric acid***
14.3. Transport hazard class(es) *** 8
14.4. Packing group *** III
14.5. Environmental hazards no***
14.6. Special precautions for user ***

EmS F-A, S-B
14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

<table>
<thead>
<tr>
<th>Product name</th>
<th>Butyric acid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ship type</td>
<td>3</td>
</tr>
<tr>
<td>Pollution category</td>
<td>Y</td>
</tr>
</tbody>
</table>

ADR/RID

14.1. UN number *** UN 2820
14.2. UN proper shipping name *** Butyric acid
14.3. Transport hazard class(es) *** 8
14.4. Packing group *** III
SAFETY DATA SHEET

n-Butyric acid
10460

14.5. Environmental hazards
no***

14.6. Special precautions for user
***
ADR Tunnel restriction code (E)
Classification Code C3
Hazard Number 80

SECTION 15: Regulatory information

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

Regulation 1272/2008, Annex VI

Butyric acid, CAS: 107-92-6
Classification Skin Corr. 1B; H314
Hazard pictograms GHS05 Corrosion***
Signal word Danger
Hazard statements H314

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>Butyric acid</td>
<td>regulated***</td>
</tr>
<tr>
<td>CAS: 107-92-6</td>
<td></td>
</tr>
</tbody>
</table>

International Inventories

Butyric acid, CAS: 107-92-6
AICS (AU)***
DSL (CA)***
IECSG (CN)***
EC-No. 2035323 (EU)***
ENCS (2)-608 (JP)***
ISHL (2)-608 (JP)***
KECI KE-03838 (KR)***
INSO (MX)***
PCCS (PH)***
TSCA (US)***
NZIoC (NZ)***
TCSI (TW)***

SECTION 16: Other information

Full text of H-Statements referred to under sections 2 and 3
H302: Harmful if swallowed.
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).

**Disclaimer**
For industrial use only. The information contained herein is accurate to the best of our knowledge. We do not suggest or guarantee that any hazards listed herein are the only ones which exist. Oxea makes no warranty of any kind, express or implied, concerning the safe use of this material in your process or in combination with other substances. User has the sole responsibility to determine the suitability of the materials for any use and the manner of use contemplated. User must meet all applicable safety and health standards.

End of Safety Data Sheet