according to REACH Regulation (EC) No. 1907/2006, as amended by UK REACH Regulations SI 2019/758



3-Methylbutyric acid

10170

Version / Revision7.01Revision Date25-Jan-2023Supersedes Version7.00\*\*\*Issuing date25-Jan-2023

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

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

Identification

**OQ Chemicals GmbH** Rheinpromenade 4A

D-40789 Monheim

Germany

Product Information Product Stewardship

FAX: +49 (0)208 693 2053 email: sc.psq@oq.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**

according to REACH Regulation (EC) No. 1907/2006, as amended by UK REACH Regulations SI 2019/758



7.01

# 3-Methylbutyric acid 10170

Version / Revision



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)

**Endocrine disrupting** 

assessments

The substance is not listed on the candidate list according to Art. 59(1), REACh. The substance was not assessed as having endocrine disrupting properties

according to regulation 2017/2100/EU or 2018/605/EU.

## SECTION 3: Composition / information on ingredients

#### 3.1. Substances

Component	CAS-No	1272/2008/EC	Concentration (%)
Isovaleric acid	503-74-2	Skin Corr. 1B; H314	> 99,0
		Eye Dam. 1; H318	

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**

according to REACH Regulation (EC) No. 1907/2006, as amended by UK REACH Regulations SI 2019/758



# 3-Methylbutyric acid 10170

**Version / Revision** 

7.01

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

according to REACH Regulation (EC) No. 1907/2006, as amended by UK REACH Regulations SI 2019/758



# 3-Methylbutyric acid 10170

**Version / Revision** 

7.01

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.

#### 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

stainless steel, aluminium

according to REACH Regulation (EC) No. 1907/2006, as amended by UK REACH Regulations SI 2019/758



## 3-Methylbutyric acid

**Version / Revision** 10170 7.01

#### **Unsuitable material**

nickel, copper

#### **Temperature class**

## 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

**Workers** 

No data available

#### **General population**

No data available

## **Environment**

PNEC aqua - freshwater PNEC agua - marine water PNEC agua - intermittent releases **PNEC STP** 

PNEC sediment - freshwater PNEC sediment - marine water

**PNEC Air PNEC soil** 

Secondary poisoning

29,3 µg/l  $2,93 \mu g/l$ 0,293 mg/l 22,4 mg/l 117,3 mg/kg dw 11,7 mg/kg dw No hazard identified 6,25 µg/kg dw

## No potential for bioaccumulation

#### 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

according to REACH Regulation (EC) No. 1907/2006, as amended by UK REACH Regulations SI 2019/758



## 3-Methylbutyric acid

Version / Revision 10170 7.01

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.

Suitable material nitrile rubber

**Evaluation** according to EN 374: level 6

Glove thickness approx 0,55 mm

> 480 min Break through time

polyvinylchloride Suitable material

Information derived from practical experience **Evaluation** 

Glove thickness approx 0,8 mm

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

## SECTION 9: Physical and chemical properties

## 9.1. Information on basic physical and chemical properties

**Physical state** liquid colourless Colour Odour unpleasant

according to REACH Regulation (EC) No. 1907/2006, as amended by UK REACH Regulations SI 2019/758



3-Methylbutyric acid

**Version / Revision** 7.01 10170

0,02 mg/m<sup>3</sup> **Odour threshold** 

- 31 °C (Pour point) Melting point/freezing point **DIN ISO 3016** Method 178,5 °C @ 1013 hPa

Boiling point or initial boiling

point and boiling range

Method

**OECD 103** 

Even if not classified as flammable, the product is capable of catching fire or **Flammability** 

being set on fire.\*\*\*

1,4 Vol % **Lower explosion limit** 7,3 Vol % **Upper explosion limit** 

80 °C @ 1013 hPa Flash point

Method EN 22719

**Autoignition temperature** 420 °C @ 988 hPa

Method DIN 51794 **Decomposition temperature** No data available

3,1 (1 % in water @ 25 °C (77 °F)) DIN 19268 pН

**Kinematic Viscosity** 2,632 mm<sup>2</sup>/s @ 20 °C

DIN 51562 Method

48 g/l @ 20 °C, in water, OECD 105 Solubility 1,7 @ 25 °C (77 °F) OECD 117 **Partition coefficient** 

n-octanol/water (log value)

Vapour pressure

@ °C @ °F Values [kPa] Values [atm] Values [hPa] Method 1 0,1 0,001 20 68 DIN EN 13016-2 6,6 0.66 0.007 50 122 **DIN EN** 13016-2

Density and/or relative density

Values @ °C @ °F Method 0,9258 20 68 DIN 51757

3,5 (Air = 1) @ 20 °C (68 °F) Relative vapour density

**Particle characteristics** not applicable

#### 9.2. Other information

**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

Molecular weight 102.13 Molecular formula C5 H10 O2 log Koc 0.6045 calculated

pKa 4,7 @ 20 °C (68 °F) OECD 112 **Dissociation constant** 

Refractive index 1,403 @ 20 °C

63,3 mN/m (1 g/I @ 20°C (68°F)), OECD 115 Surface tension

No data available **Evaporation rate** 

## 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

according to REACH Regulation (EC) No. 1907/2006, as amended by UK REACH Regulations SI 2019/758



3-Methylbutyric acid 10170

Version / Revision

7.01

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 hazard classes as defined in Regulation (EC) No 1272/2008

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

Acute toxicity				
Isovaleric acid (503-74-2)				
Routes of Exposure	Endpoint	Values	Species	Method
Oral	LD50	~ 2500 mg/kg	rat male female	OECD 401
Dermal	LD50	> 2000 mg/kg	rabbit male female	OECD 402
Inhalative	LC0	2060 mg/m <sup>3</sup> (7 h)	rat	OECD 403

### 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	1			
Isovaleric acid (503-74	-2)			
Target Organ Effects	Species	Result	Method	
Skin	rabbit	corrosive	OECD 404	1h
Respiratory tract	rat	slight irritation	OECD 403	7h

### 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

according to REACH Regulation (EC) No. 1907/2006, as amended by UK REACH Regulations SI 2019/758



3-Methylbutyric acid

**10170** Version / Revision 7.01

#### **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 (503-7	4-2)			
Туре	Dose	Species	Method	
Subchronic toxicity	NOAEL: 4100 mg/kg/d (90d)	rat, male		Oral read across
Subchronic toxicity	NOAEL: 1068 mg/kg/d (90d)	rat, male	OECD 408	Oral read across
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, Muta	genicity, Reprod	luctive toxicity			
Isovaleric acid (503-74	1-2)				
Туре	Dose	Species	Evaluation	Method	
Mutagenicity		Salmonella typhimurium	negative	OECD 471 (Ames)	read across
Mutagenicity		mouse	negative	OECD 474	read across
Developmental Toxicity	NOAEL 600 mg/kg/d	rat		OECD 414, Oral	Maternal toxicity, Developmental toxicity, Teratogenicity
Mutagenicity		V79 cells, Chinese hamster	negative	OECD 476 (Mammalian Gene Mutation)	read across

#### 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

### 11.2. Information on other hazards

according to REACH Regulation (EC) No. 1907/2006, as amended by UK REACH Regulations SI 2019/758



3-Methylbutyric acid 10170

**Version / Revision** 

7.01

#### **Endocrine disrupting properties**

The substance has not been identified as having endocrine disrupting properties in accordance with section 2.3. **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			
Isovaleric acid (503-74-2)			
Species	Exposure time	Dose	Method
Pimephales promelas (fathead minnow)	96h	LC50: 77 mg/l	OECD 203 read across
Daphnia magna (Water flea)	48h	EC50: 51,25 mg/l	DIN 38412, part 11 read across
Pseudokirchneriella subcapitata	72h	EC50: 29,3 mg/l (Growth rate)	OECD 201 read across
Tetrahymena pyriformis	40 h	IC50: 224 mg/l (Growth inhibition)	

Long term toxicity				
Isovaleric acid (503-	-74-2)			
Туре	Species	Dose	Method	
Aquatic toxicity	Pseudokirchneriella	NOEC: 12,6 mg/l	OECD 201 read	
	subcapitata	(3d) Growth rate	across	

## 12.2. Persistence and degradability

Isovaleric acid, CAS: 503-74-2

Biodegradation

58 - 66 % (8 d), activated sludge, aerobic, non-adapted, OECD 301 C.

Abiotic Degradation		
Isovaleric acid (503-74-2)		
Туре	Result	Method
Hydrolysis	not expected	
Photolysis	Half-life (DT50): 31,287 h	calculated SRC AOP v1.92

## 12.3. Bioaccumulative potential

Isovaleric acid (503-74-2)		
Туре	Result	Method
log Pow	1,7 @ 25 °C (77 °F)	measured, OECD 117
BCF	3,162 l/kg	calculated

## 12.4. Mobility in soil

according to REACH Regulation (EC) No. 1907/2006, as amended by UK REACH Regulations SI 2019/758



## 3-Methylbutyric acid

**10170** Version / Revision 7.01

Isovaleric acid (503-74-2)		
Туре	Result	Method
Surface tension	63,3 mN/m (1 g/l @ 20°C (68°F))	OECD 115
Adsorption/Desorption	Koc: 4,022	calculated SRC PCKOCWIN v2.00
Distribution to environmental	Air: 5,27% Soil: 57,1% Water:	Calculation according Mackay,
compartments	37,6% Sediment: 0,0708%	Level III

### 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. Endocrine disrupting properties

The substance has not been identified as having endocrine disrupting properties in accordance with section 2.3.

### 12.7. Other adverse effects

Isovaleric acid, CAS: 503-74-2

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

#### ADR/RID

14.1. UN number or ID number	UN 3265
14.2. UN proper shipping name	Corrosive liquid, acidic, organic, n.o.s. (3-Methylbutyric acid)
14.3. Transport hazard class(es)	8
14.4. Packing group	II
14.5. Environmental hazards	no
14.6. Special precautions for user	
ADR Tunnel restriction code	(E)
Classification Code	C3

according to REACH Regulation (EC) No. 1907/2006, as amended by UK REACH Regulations SI 2019/758



## 3-Methylbutyric acid

Version / Revision 10170 7.01

Hazard Number 80

**ADN Container** ADN

UN 3265 14.1. UN number or ID number

14.2. UN proper shipping name Corrosive liquid, acidic, organic, n.o.s. (3-Methylbutyric

acid)

8 14.3. Transport hazard class(es) Ш 14.4. Packing group 14.5. Environmental hazards no

14.6. Special precautions for user

Classification Code C3 Hazard Number 80

#### ICAO-TI / IATA-DGR

UN 3265 14.1. UN number or ID number

Corrosive liquid, acidic, organic, n.o.s. (3-Methylbutyric 14.2. UN proper shipping name

acid)

8 14.3. Transport hazard class(es) Ш 14.4. Packing group 14.5. Environmental hazards nο

14.6. Special precautions for user no data available

## **IMDG**

UN 3265 14.1. UN number or ID number

Corrosive liquid, acidic, organic, n.o.s. (3-Methylbutyric 14.2. UN proper shipping name

14.3. Transport hazard class(es) 8 14.4. Packing group Ш 14.5. Environmental hazards nο

14.6. Special precautions for user

F-A, S-B not applicable

14.7. Maritime transport in bulk according

to IMO instruments

## 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)

not subject Category

DI 1999/13/EC (VOC Guideline)

<b>6</b>
Status

according to REACH Regulation (EC) No. 1907/2006, as amended by UK REACH Regulations SI 2019/758



# 3-Methylbutyric acid 10170

Version / Revision 7.01

Isovaleric acid	regulated
CAS: 503-74-2	

The REACH etc. (Amendment etc.) (EU Exit) Regulations 2019 No. 758

Component	Status
Isovaleric acid	The substance will not be pre-registered
CAS: 503-74-2	

For details and further information please refer to the original regulation.

#### **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)

### National regulatory information Great Britain

#### Releases to air (Pollution Inventory Substances)

not subject

TCSI (TW)

#### 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: http://echa.europa.eu/documents/10162/13632/information\_requirements\_r20\_en.pdf

according to REACH Regulation (EC) No. 1907/2006, as amended by UK REACH Regulations SI 2019/758



3-Methylbutyric acid 10170

Version / Revision

7.01

#### 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 OQ 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 OQ homepage (www.chemicals.oq.com).

The annex is not required because the substance is registered as an intermediate under REACh

#### **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. OQ Chemicals 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**