

# SAFETY DATA SHEET

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

### 1.1. Product identifier

**Trade name**

Junckers BasePrime

**Product no.**

127

**REACH registration number**

Not applicable

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

**Relevant identified uses of the substance or mixture**

Priming lacquer

**Uses advised against**

-

The full text of any mentioned and identified use categories are given in section 16

### 1.3. Details of the supplier of the safety data sheet

**Company and address**

Junckers Industrier A/S

Vaerftsvej 4

4600 Koege

Denmark

Tel. +45 70 80 30 00

**Contact person****E-mail**

productsafety@junckers.dk

**SDS date**

2019-11-19

**SDS Version**

4.0

### 1.4. Emergency telephone number

Contact The National Poisons Information Service (dial 111, 24 h service). See section 4 "First aid measures".

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

Flam. Liq. 2; H225

Eye Irrit. 2; H319

STOT SE 3; H336

See full text of H-phrases in section 2.2.

### 2.2. Label elements

**Hazard pictogram(s)****Signal word**

Danger

According to EC-Regulation 2015/830

### Hazard statement(s)

Highly flammable liquid and vapour. (H225)  
 Causes serious eye irritation. (H319)  
 May cause drowsiness or dizziness. (H336)

### ▼ Precautionary statements

**General** -  
**Prevention** Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. (P210).  
 Avoid breathing vapours. (P261).  
 Wear eye protection. (P280).  
**Response** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. (P305+P351+P338).  
 If eye irritation persists: Get medical advice/attention. (P337+P313).  
**Storage** Store in a well-ventilated place. Keep container tightly closed. (P403+P233).  
**Disposal** -

### ▼ Identity of the substances primarily responsible for the major health hazards

Propan-2-ol; 1-Methoxypropan-2-ol

### Additional labelling

Not applicable

### Unique formula identifier (UFI)

SWA0-P0WM-J00W-U5UN

### ▼ 2.3. Other hazards

This product contains an organic solvent. Repeated or prolonged exposure to organic solvents may result in adverse effects to the nervous system and internal organs such as liver and kidneys.

### Additional warnings

Not applicable

### ▼ VOC (volatile organic compound)

VOC-Max: 745 g/l, MAXIMUM VOC CONTENT (A/h (SB)): 750 g/l.

## SECTION 3: Composition/information on ingredients

### ▼ 3.1/3.2. Substances/Mixtures

NAME:	Ethanol
IDENTIFICATION NOS.:	CAS-no: 64-17-5 EC-no: 200-578-6 REACH-no: 01-2119457610-43 Index-no: 603-002-00-5
CONTENT:	40-60%
CLP CLASSIFICATION:	Flam. Liq. 2, Eye Irrit. 2 H225, H319
NOTE:	O
NAME:	Propan-2-ol
IDENTIFICATION NOS.:	CAS-no: 67-63-0 EC-no: 200-661-7 REACH-no: 01-2119457558-25 Index-no: 603-117-00-0
CONTENT:	15 - <25%
CLP CLASSIFICATION:	Flam. Liq. 2, Eye Irrit. 2, STOT SE 3 H225, H319, H336
NOTE:	O
NAME:	1-Methoxypropan-2-ol
IDENTIFICATION NOS.:	CAS-no: 107-98-2 EC-no: 203-539-1 REACH-no: 01-2119457435-35 Index-no: 603-064-00-3
CONTENT:	10 - <15%
CLP CLASSIFICATION:	Flam. Liq. 3, STOT SE 3 H226, H336
NOTE:	O L
NAME:	Butanone
IDENTIFICATION NOS.:	CAS-no: 78-93-3 EC-no: 201-159-0 REACH-no: 01-2119457290-43 Index-no: 606-002-00-3
CONTENT:	0.25 - <1%
CLP CLASSIFICATION:	Flam. Liq. 2, Eye Irrit. 2, STOT SE 3 H225, H319, H336, EUH066
NOTE:	O L

(\*) See full text of H-phrases in section 16. Occupational exposure limits are listed in section 8, if these are available.  
 O = Organic solvent L = European occupational exposure limit.

## Other information

Eye Cat. 2 Sum = Sum(Ci/S(G)CLi) = 2,4736 - 3,7104

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General information

In the case of accident: Contact a doctor or casualty department – take the label or this safety data sheet. The doctor can contact The National Poisons Information Service: Dial 0344 892 0111 (24 h service). Contact a doctor if in doubt about the injured person's condition or if the symptoms persist. Never give an unconscious person water or other drink.

#### Inhalation

Bring the person into fresh air and stay with him/her.

#### Skin contact

Immediately remove contaminated clothing and shoes. Ensure that skin, which has been exposed to the material, is washed thoroughly with soap and water. Skin cleanser can be used. DO NOT use solvents or thinners.

#### Eye contact

Remove contact lenses. Flush eyes immediately with plenty of water or isotonic water (20-30 °C) for at least 15 minutes and continue until irritation stops. Make sure to flush under the upper and lower eyelids. If irritation continues, contact a doctor. Continue flushing during transport.

#### Ingestion

Provide plenty of water for the person to drink and stay with him/her. In case of malaise, seek medical advice immediately and bring the safety data sheet or label from the product. Do not induce vomiting, unless recommended by the doctor. Have the victim lean forward with head down to avoid inhalation of- or choking on vomited material.

#### Burns

Rinse with water until the pain stops then continue to rinse for a further 30 minutes.

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

This product contains organic solvents, which may cause adverse effects to the nervous system. Symptoms include: headache, dizziness, tingling sensations of skin, difficulty in concentrating, tiredness. Irritation effects: This product contains substances, which may cause irritation upon exposure to skin, eyes or lungs. Exposure may result in an increased absorption potential of other hazardous substances at the area of exposure.

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

If eye irritation persists: Get medical advice/attention.

#### Information to medics

Bring this safety data sheet.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Recommended: alcohol-resistant foam, carbonic acid, powder, water mist. Waterjets should not be used, since they can spread the fire.

### 5.2. Special hazards arising from the substance or mixture

If the product is exposed to high temperatures, e.g. in the event of fire, dangerous catabolic substances are produced. These are: Carbon oxides. Fire will result in dense black smoke. Exposure to combustion products may harm your health. Fire fighters should wear appropriate protection equipment. Closed containers, which are exposed to fire, should be cooled with water. Do not allow fire-extinguishing water to enter the sewage system and nearby surface waters.

### 5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective clothing to prevent contact. Upon direct exposure contact The National Poisons Information Service (dial 111, 24 h service) in order to obtain further advice.

## SECTION 6: Accidental release measures

According to EC-Regulation 2015/830

### 6.1. Personal precautions, protective equipment and emergency procedures

Avoid inhalation of vapours from spilled material. Storages not yet ignited must be cooled by water mist. Remove flammable materials if conditions allow it. Ensure sufficient ventilation.

### 6.2. Environmental precautions

No specific requirements.

### 6.3. Methods and material for containment and cleaning up

Use sand, sawdust, earth, vermiculite, diatomaceous earth to contain and collect non-combustible absorbent materials and place in container for disposal, according to local regulations. To the extent possible cleaning is performed with normal cleaning agents. Avoid use of solvents.

### 6.4. Reference to other sections

See section on "Disposal considerations" in regard of handling of waste. See section on 'Exposure controls/personal protection' for protective measures.

## SECTION 7: Handling and storage

### ▼7.1. Precautions for safe handling

Smoking, storage of tobacco, consumption and storage of food or liquids are not allowed in the workrooms. See section on 'Exposure controls/personal protection' for information on personal protection.

### 7.2. Conditions for safe storage, including any incompatibilities

Always store in containers of the same material as the original container. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Must be stored in a cool and well-ventilated area, away from possible sources of ignition.

### ▼Storage temperature

Store in cool, dry conditions in well sealed receptacles.

### 7.3. Specific end use(s)

This product should only be used for applications quoted in section 1.2

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### ▼OEL

Butanone

Long-term exposure limit (8-hour TWA reference period): 200 ppm | 600 mg/m<sup>3</sup>

Short-term exposure limit (15-minute reference period): 300 ppm | 899 mg/m<sup>3</sup>

Comments: Sk; BMGV (Bmgv = Biological Monitoring Guidance Value. Sk = Can be absorbed through skin. )

1-Methoxypropan-2-ol

Long-term exposure limit (8-hour TWA reference period): 100 ppm | 375 mg/m<sup>3</sup>

Short-term exposure limit (15-minute reference period): 150 ppm | 560 mg/m<sup>3</sup>

Comments: Sk (Sk = Can be absorbed through skin. )

Propan-2-ol

Long-term exposure limit (8-hour TWA reference period): 400 ppm | 999 mg/m<sup>3</sup>

Short-term exposure limit (15-minute reference period): 500 ppm | 1250 mg/m<sup>3</sup>

Ethanol

Long-term exposure limit (8-hour TWA reference period): 1000 ppm | 1920 mg/m<sup>3</sup>

Short-term exposure limit (15-minute reference period): - ppm | - mg/m<sup>3</sup>

#### ▼DNEL / PNEC

DNEL (Butanone): 600 mg/m<sup>3</sup>

Exposure: Inhalation

Duration of Exposure: Long term – Systemic effects - Workers

DNEL (Butanone): 1161 mg/kg bw/day

Exposure: Dermal

Duration of Exposure: Long term – Systemic effects - Workers

DNEL (Butanone): 106 mg/m<sup>3</sup>

Exposure: Inhalation

Duration of Exposure: Long term – Systemic effects - General population

DNEL (Butanone): 412 mg/kg bw/day

Exposure: Dermal

Duration of Exposure: Long term – Systemic effects - General population

According to EC-Regulation 2015/830

DNEL (Butanone): 31 mg/kg bw/day  
Exposure: Oral  
Duration of Exposure: Long term – Systemic effects - General population

DNEL (Ethanol): 950 mg/m<sup>3</sup>  
Exposure: Inhalation  
Duration of Exposure: Long term – Systemic effects - Workers

DNEL (Ethanol): 1900 mg/m<sup>3</sup>  
Exposure: Inhalation  
Duration of Exposure: Short term – Local effects - Workers

DNEL (Ethanol): 343 mg / kg bw/day  
Exposure: Dermal  
Duration of Exposure: Long term – Systemic effects - Workers

DNEL (Ethanol): 114 mg/m<sup>3</sup>  
Exposure: Inhalation  
Duration of Exposure: Long term – Systemic effects - General population

DNEL (Ethanol): 950 mg/m<sup>3</sup>  
Exposure: Inhalation  
Duration of Exposure: Short term – Local effects - General population

DNEL (Ethanol): 206 mg/kg bw/day  
Exposure: Dermal  
Duration of Exposure: Long term – Systemic effects - General population

DNEL (Ethanol): 87 mg/kg bw/day  
Exposure: Oral  
Duration of Exposure: Long term – Systemic effects - General population

DNEL (Propan-2-ol): 89 mg/m<sup>3</sup>  
Exposure: Inhalation  
Duration of Exposure: Long term – Systemic effects - General population

DNEL (Propan-2-ol): 319 mg/kg bw/day  
Exposure: Dermal  
Duration of Exposure: Long term – Systemic effects - General population

DNEL (Propan-2-ol): 26 mg/kg bw/day  
Exposure: Oral  
Duration of Exposure: Long term – Systemic effects - General population

DNEL (1-Methoxypropan-2-ol): 369 mg/m<sup>3</sup>  
Exposure: Inhalation  
Duration of Exposure: Long term – Systemic effects - Workers

DNEL (1-Methoxypropan-2-ol): 553,5 mg/m<sup>3</sup>  
Exposure: Inhalation  
Duration of Exposure: Short term – Systemic effects - Workers

DNEL (1-Methoxypropan-2-ol): 553,5 mg/m<sup>3</sup>  
Exposure: Inhalation  
Duration of Exposure: Short term – Local effects - Workers

DNEL (1-Methoxypropan-2-ol): 183 mg/kg bw/day  
Exposure: Dermal  
Duration of Exposure: Long term – Systemic effects - Workers

DNEL (1-Methoxypropan-2-ol): 43,9 mg/m<sup>3</sup>  
Exposure: Inhalation  
Duration of Exposure: Long term – Systemic effects - General population

DNEL (1-Methoxypropan-2-ol): 78 mg/kg bw/day  
Exposure: Dermal  
Duration of Exposure: Long term – Systemic effects - General population

DNEL (1-Methoxypropan-2-ol): 33 mg/kg bw/day  
Exposure: Oral  
Duration of Exposure: Long term – Systemic effects - General population

According to EC-Regulation 2015/830

PNEC (Butanone): 55,8 mg/l  
Exposure: Freshwater

PNEC (Butanone): 55,8 mg/l  
Exposure: Intermittent release  
Remarks: (freshwater)

PNEC (Butanone): 55,8 mg/l  
Exposure: Marine water

PNEC (Butanone): 709 mg/l  
Exposure: Sewage Treatment Plant

PNEC (Butanone): 285 mg/kg dw  
Exposure: Freshwater sediment

PNEC (Butanone): 285 mg/kg dw  
Exposure: Marine water sediment

PNEC (Butanone): 22,5 mg/kg dw  
Exposure: Soil

PNEC (Ethanol): 960 µg/l  
Exposure: Freshwater

PNEC (Ethanol): 2,75 mg/l  
Exposure: Intermittent release  
Remarks: (freshwater)

PNEC (Ethanol): 790 µg/l  
Exposure: Marine water

PNEC (Ethanol): 580 mg/l  
Exposure: Sewage Treatment Plant

PNEC (Ethanol): 3,6 mg/kg dw  
Exposure: Freshwater sediment

PNEC (Ethanol): 2,9 mg/kg dw  
Exposure: Marine water sediment

PNEC (Ethanol): 630 µg/kg dw  
Exposure: Soil

PNEC (Propan-2-ol): 140,9 mg/l  
Exposure: Freshwater

PNEC (Propan-2-ol): 140,9 mg/l  
Exposure: Intermittent release  
Remarks: (freshwater)

PNEC (Propan-2-ol): 140,9 mg/l  
Exposure: Marine water

PNEC (Propan-2-ol): 2,251 g/l  
Exposure: Sewage Treatment Plant

PNEC (Propan-2-ol): 552 mg/kg dw  
Exposure: Freshwater sediment

PNEC (Propan-2-ol): 552 mg/kg dw  
Exposure: Marine water sediment

PNEC (Propan-2-ol): 28 mg/kg dw  
Exposure: Soil

PNEC (1-Methoxypropan-2-ol): 10 mg/l  
Exposure: Freshwater

PNEC (1-Methoxypropan-2-ol): 100 mg/l  
Exposure: Intermittent release  
Remarks: (freshwater)

PNEC (1-Methoxypropan-2-ol): 1 mg/l

According to EC-Regulation 2015/830

Exposure: Marine water

PNEC (1-Methoxypropan-2-ol): 100 mg/l  
Exposure: Sewage Treatment Plant

PNEC (1-Methoxypropan-2-ol): 52,3 mg/kg dw  
Exposure: Freshwater sediment

PNEC (1-Methoxypropan-2-ol): 5,2 mg/kg dw  
Exposure: Marine water sediment

PNEC (1-Methoxypropan-2-ol): 4,59 mg/kg dw  
Exposure: Soil

## 8.2. Exposure controls

Compliance with the accepted occupational exposure limits values should be controlled on a regular basis.

### General recommendations

Observe general occupational hygiene standards.

### Exposure scenarios

In the event exposure scenarios are appended to the safety data sheet, the operational conditions and risk management measures in these shall be complied with.

### Exposure limits

Professional users are subjected to the legally set maximum concentrations for occupational exposure. See occupational hygiene limit values above.

### Appropriate technical measures

Airborne gas and dust concentrations must be kept at a minimum and below current limit values (see above). Installation of an exhaust system if normal air flow in the work room is not sufficient is recommended. Ensure emergency eyewash and -showers are clearly marked.

### Hygiene measures

In between use of the product and at the end of the working day all exposed areas of the body must be washed thoroughly. Always wash hands, forearms and face.

### Measures to avoid environmental exposure

No specific requirements.

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



### Generally

Use only CE marked protective equipment.

### ▼ Respiratory Equipment

Recommended: Self-contained breathing apparatus. For small surfaces: Gas filter type A.

### Skin protection

Wear appropriate protection clothing, e.g. coveralls in polypropylene approved type 6 and Category III.

### ▼ Hand protection

Butyl rubber

### Eye protection

Wear safety glasses with side shields.

## SECTION 9: Physical and chemical properties

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

Form	Liquid
Colour	Clear
Odour	Alcohol odor
Odour threshold (ppm)	No data available.
pH	No data available.
Viscosity (40°C)	No data available.
Density (g/cm <sup>3</sup> )	0,83

### ▼ Phase changes

According to EC-Regulation 2015/830

Melting point (°C)	No data available.
Boiling point (°C)	> 35
Vapour pressure	No data available.
Decomposition temperature (°C)	No data available.
Evaporation rate (n-butylacetate = 100)	No data available.
<b>▼ Data on fire and explosion hazards</b>	
Flash point (°C)	< 20
Ignition (°C)	No data available.
Auto flammability (°C)	No data available.
Explosion limits (% v/v)	No data available.
Explosive properties	No data available.
<b>Solubility</b>	
Solubility in water	Insoluble
n-octanol/water coefficient	No data available.
<b>9.2. Other information</b>	
Solubility in fat (g/L)	No data available.

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No data available

### 10.2. Chemical stability

The product is stable under the conditions, noted in the section "Handling and storage".

### 10.3. Possibility of hazardous reactions

Nothing special

### 10.4. Conditions to avoid

Avoid static electricity.

### 10.5. Incompatible materials

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

### 10.6. Hazardous decomposition products

The product is not degraded when used as specified in section 1.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### Acute toxicity

No data available.

#### ▼ Skin corrosion/irritation

No data available.

#### ▼ Serious eye damage/irritation

Causes serious eye irritation.

#### ▼ Respiratory or skin sensitisation

No data available.

#### ▼ Germ cell mutagenicity

No data available.

#### Carcinogenicity

No data available.

#### Reproductive toxicity

No data available.

#### STOT-single exposure

May cause drowsiness or dizziness.

#### STOT-repeated exposure

No data available.

#### Aspiration hazard

No data available.

#### ▼ Long term effects

This product contains organic solvents, which may cause adverse effects to the nervous system.



According to EC-Regulation 2015/830

Symptoms include: headache, dizziness, tingling sensations of skin, difficulty in concentrating, tiredness.  
Irritation effects: This product contains substances, which may cause irritation upon exposure to skin, eyes or lungs. Exposure may result in an increased absorption potential of other hazardous substances at the area of exposure.

## SECTION 12: Ecological information

### ▼ 12.1. Toxicity

No data available.

### ▼ 12.2. Persistence and degradability

Substance	Biodegradability	Test	Result
Butanone	Yes	Closed Bottle Test	> 60 %
1-Methoxypropan-2-ol	Yes	Modified OECD	96 %
Propan-2-ol	Yes	Screening Test	0,5
Ethanol	Yes	BOD5/COD ratio	> 60 %
		CO2 Evolution Test	

### ▼ 12.3. Bioaccumulative potential

Substance	Potential bioaccumulation	LogPow	BCF
Butanone	No	0,3	No data available
1-Methoxypropan-2-ol	No	0,37	No data available
Propan-2-ol	No	0,05	3,2
Ethanol	No	-0,35	No data available

### ▼ 12.4. Mobility in soil

Butanone: Log Koc= 0,31597, Calculated from LogPow (High mobility potential.).  
1-Methoxypropan-2-ol: Log Koc= 0,371403, Calculated from LogPow (High mobility potential.).  
Propan-2-ol: Log Koc= 0,117995, Calculated from LogPow (High mobility potential.).  
Ethanol: Log Koc= -0,198765, Calculated from LogPow (High mobility potential.).

### 12.5. Results of PBT and vPvB assessment

This mixture/product does not contain any substances considered to meet the criteria classifying them as PBT and/or vPvB.

### 12.6. Other adverse effects

Nothing special

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Product is covered by the regulations on hazardous waste.

#### ▼ Waste

EWC code

08 01 11\*

waste paint and varnish containing organic solvents or other dangerous substances

#### Specific labelling

Not applicable

#### Contaminated packing

Contaminated packaging must be disposed of similarly to the product.

## SECTION 14: Transport information

### 14.1 – 14.4

This product is within scope of the regulations of transport of dangerous goods.

#### ▼ ADR/RID

14.1. UN number	1263
14.2. UN proper shipping name	PAINT
14.3. Transport hazard class(es)	3
14.4. Packing group	II
Notes	Vapour pressure at 50 °C < 110 kPa
Tunnel restriction code	(D/E)

According to EC-Regulation 2015/830

<b>▼IMDG</b>	
<b>UN-no.</b>	1263
<b>Proper Shipping Name</b>	PAINT
<b>Class</b>	3
<b>PG*</b>	II
<b>EmS</b>	F-E, S-D
<b>MP**</b>	No
<b>Hazardous constituent</b>	Ethanol, Propan-2-ol

<b>IATA/ICAO</b>	
<b>UN-no.</b>	1263
<b>Proper Shipping Name</b>	PAINT
<b>Class</b>	3
<b>PG*</b>	II

#### 14.5. Environmental hazards

-

#### 14.6. Special precautions for user

-

#### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

No data available

(\*) Packing group

(\*\*) Marine pollutant

## SECTION 15: Regulatory information

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

#### Restrictions for application

People under the age of 18 shall not be exposed to this product cf. Council Directive 94/33/EC of 22 June 1994 on the protection of young people at work.

Pregnant women and women breastfeeding must not be exposed to this product. The risk, and possible technical precautions or design of the workplace needed to eliminate exposure, must be considered.

#### Demands for specific education

-

#### Additional information

Not applicable

#### Seveso

Seveso III Part 1: P5c

#### Biocidal reg. no.

Not applicable

#### Sources

Council Directive 92/85/EEC on the introduction of measures to encourage improvements in the safety and health at work of pregnant workers and workers who have recently given birth or are breastfeeding.

Council Directive 94/33/EC of 22 June 1994 on the protection of young people at work.

Directive 2004/42/CE of the European Parliament and of the Council of 21 April 2004 on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products and amending Directive 1999/13/EC.

The Control of Substances Hazardous to Health Regulations 2002. SI 2002/2677. The Stationery Office, 2002.

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 (CLP).

Regulation (EC) 1907/2006 (REACH).

The Control of Major Accident Hazards (COMAH) Regulations 2015.

### 15.2. Chemical safety assessment

No

**SECTION 16: Other information****▼ Full text of H-phrases as mentioned in section 3**

H225 - Highly flammable liquid and vapour.

H226 - Flammable liquid and vapour.

H319 - Causes serious eye irritation.

H336 - May cause drowsiness or dizziness.

EUH066 - Repeated exposure may cause skin dryness or cracking.

**The full text of identified uses as mentioned in section 1**

-

**Additional label elements**

Not applicable

**Other**

In accordance with Regulation (EC) No. 1272/2008 (CLP) the evaluation of the classification of the mixture is based on:

The classification of the mixture in regard of physical hazards has been based on experimental data.

The classification of the mixture in regard of health hazards are in accordance with the calculation methods given by Regulation (EC) No. 1272/2008 (CLP)

It is recommended to hand over this safety data sheet to the actual user of the product. Information in this safety data sheet cannot be used as a product specification.

The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.

A change (in proportion to the last essential change (first cipher in SDS version, see section 1)) is marked with a blue triangle.

**The safety data sheet is validated by**

ULS

**Date of last essential change  
(First cipher in SDS version)**

2018-12-29(3.0)

**Date of last minor change  
(Last cipher in SDS version)**

2018-12-29