

SAFETY DATA SHEET

## Brilliant Maskinopvask u/klor

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

#### 1.1. Product identifier

Trade name

Brilliant Maskinopvask u/klor

Product no.

275

▼ Unique formula identifier (UFI)

065F-52TT-100X-3JX3

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

▼ Relevant identified uses of the substance or mixture

Dishwasher detergent

Restricted to professional users.

Use descriptors (UK REACH)

Sectors of use	Description
LCS "PW"	Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
LCS "C"	Consumer uses: Private households (= general public = consumers)
Product category	Description
PC 35	Washing and Cleaning Products (including solvent based products)
Process category	Description
PROC 8a	Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities
Environmental release category	Description
ERC 8a	Wide dispersive indoor use of processing aids in open systems
ERC 8b	Wide dispersive indoor use of reactive substances in open systems

▼ EuPCS

PC-DET-3.2 / Automatic dishwashing detergents - professional or industrial use

Uses advised against

None known.

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

Company and address

**Jysk Kemi Service A/S**

Gl. Struervej 50

7500 Holstebro

Denmark

+45 9740 3133

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www.jyskkemi.dk

Contact person

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Revision

25/10/2023

SDS Version

2.0

Date of previous version

04/11/2022 (1.0)

According to REACH Regulation (EC) No 1907/2006, as retained and amended SI 2019/758 and SI 2020/1577

#### 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

Classified according to Regulation (EC) No. 1272/2008 (CLP) as retained and amended in UK law.

#### 2.1. Classification of the substance or mixture

Skin Corr. 1A; H314, Causes severe skin burns and eye damage.  
Eye Dam. 1; H318, Causes serious eye damage.

#### 2.2. Label elements

Hazard pictogram(s)



Signal word

Danger

Hazard statement(s)

Causes severe skin burns and eye damage. (H314)

Precautionary statement(s)

General

-

##### ▼ Prevention

Do not breathe vapour/mist. (P260)

Response

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. (P303+P361+P353)

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing. (P305+P351+P338)

Immediately call a POISON CENTER/doctor. (P310)

Storage

-

##### ▼ Disposal

Dispose of contents/container in accordance with local regulation (P501)

##### ▼ Hazardous substances

sodium hydroxide

disodium metasilicate

Additional labelling

UFI: 065F-52TT-100X-3JX3

#### 2.3. Other hazards

Additional warnings

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

This product does not contain any substances considered to be endocrine disruptors in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

### SECTION 3: Composition/information on ingredients

#### 3.1. ▼ Substances

Not applicable. This product is a mixture.

#### 3.2. ▼ Mixtures

Product/substance	Identifiers	% w/w	Classification	Note
sodium hydroxide	CAS No.: 1310-73-2 EC No.: 215-185-5 UK-REACH: Index No.: 011-002-00-6	10-15%	Skin Corr. 1A, H314 Skin Corr. 1B, H314 (SCL: 2.00 %) Skin Irrit. 2, H315 (SCL: 0.50 %) Eye Irrit. 2, H319 (SCL: 0.50 %)	
disodium metasilicate	CAS No.: 10213-79-3 EC No.: 600-279-4	1-3%	Skin Corr. 1A, H314 Eye Dam. 1, H318	

UK-REACH:  
Index No.:

STOT SE 3, H335

See full text of H-phrases in section 16. Occupational exposure limits are listed in section 8, if these are available.

#### Other information

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### 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. 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

Upon breathing difficulties or irritation of the respiratory tract: Bring the person into fresh air and stay with him/her.

##### Skin contact

Flush exposed area with water for a long time - at least 30 minutes. It may be necessary to flush for several hours. Use a comfortable water temperature (20-30 °C). Contact Poison Information/doctor/hospital for further advice on follow-up and treatment.

Remove contaminated clothing and shoes immediately. Ensure to wash exposed skin thoroughly with water and soap. Skin cleanser can be used. DO NOT use solvents or thinners.

If skin irritation occurs: Get medical advice/attention.

##### ▼ Eye contact

If in eyes: Flush eyes with plenty of water or salt water (20-30 °C) for at least 30 minutes and continue until irritation stops. Remove contact lenses. Make sure you flush under the upper and lower eyelids. Seek medical assistance immediately and continue flushing during transport.

##### ▼ Ingestion

In the case of ingestion, contact a doctor immediately. If the person is conscious, give them water. DO NOT try to induce vomiting unless this is recommended by a doctor. Hold head facing down to prevent vomit from returning to the mouth and throat. Prevent shock by keeping the injured person warm and calm. Initiate immediate resuscitation if breathing stops. If unconscious, roll the injured person into recovery position. Call an ambulance.

##### Burns

Not applicable.

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

Tissue-damaging effects: This product contains substances with skin corrosive properties. Inhaled vapour or aerosols may produce adverse effects to lungs, irritations and burns in the respiratory organs as well as coughing. Dermal contact and contact with the eye cause irreversible effects.

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

IF exposed or concerned:

Get immediate medical advice/attention.

#### Information to medics

Bring this safety data sheet or the label from this product.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

Not applicable.

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

Fire will result in dense smoke. Exposure to combustion products may harm your health. 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.

If the product is exposed to high temperatures, e.g. in the event of fire, dangerous decomposition compounds are produced. These are:

Some metal oxides

#### 5.3. ▼ Advice for firefighters

Wear self-contained breathing apparatus and protective clothing to prevent contact. Upon direct exposure contact

According to REACH Regulation (EC) No 1907/2006, as retained and amended SI 2019/758 and SI 2020/1577

The National Poisons Information Service (dial 111, 24 h service) in order to obtain further advice.  
Hazchem Code: 2X

## SECTION 6: Accidental release measures

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

Avoid direct contact with spilled substances.  
Ensure adequate ventilation, especially in confined areas.  
Contaminated areas may be slippery.

### 6.2. Environmental precautions

Avoid discharge to lakes, streams, sewers, etc.  
Keep unauthorized persons away from the spill

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

Limit spillage and collect using granular absorbent or similar materials, and dispose of it in accordance with the regulations on dangerous waste.  
Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations.  
Wherever possible cleaning should be performed with normal cleaning agents. Avoid use of solvents.

### 6.4. Reference to other sections

See section 13 "Disposal considerations" on handling of waste.  
See section 8 "Exposure controls/personal protection" for protective measures.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Avoid direct contact with the product.  
Smoking, drinking and consumption of food is not allowed in the work area.  
See section 8 "Exposure controls/personal protection" for information on personal protection.

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

Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

▼ Recommended storage material  
Keep only in original packaging.

Storage temperature  
> 0°C

▼ Incompatible materials  
Aluminum

### 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

sodium hydroxide  
Short term exposure limit (15 minutes) (mg/m<sup>3</sup>): 2

The Control of Substances Hazardous to Health Regulations 2002. SI 2002/2677 The Stationery Office 2002.  
EH40/2005 Workplace exposure limits (Fourth Edition 2020).

#### ▼ DNEL

disodium metasilicate

Duration:	Route of exposure:	DNEL:
Long term	Dermal	1,49 mg/kg uge/dag
Long term	Inhalation	6,22 mg/m <sup>3</sup>

sodium hydroxide

Duration:	Route of exposure:	DNEL:
Long term – Local effects - General population	Inhalation	1 mg/m <sup>3</sup>
Long term – Local effects - Workers	Inhalation	1 mg/m <sup>3</sup>

According to REACH Regulation (EC) No 1907/2006, as retained and amended SI 2019/758 and SI 2020/1577

Short term – Local effects - Workers	Inhalation	1 mg/m <sup>3</sup>
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#### PNEC

No data available.

#### 8.2. ▼ Exposure controls

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

##### General recommendations

Smoking, drinking and consumption of food is not allowed in the work area.

##### Exposure scenarios

There are no exposure scenarios implemented for this product.

##### Exposure limits

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

##### ▼ Appropriate technical measures

The formation of vapours must be kept at a minimum and below current limit values (see above). Installation of a local exhaust system if normal air flow in the work room is not sufficient is recommended. Ensure eyewash and emergency showers are clearly marked.

Ensure that eyewash stations and safety showers are located within easy reach.

Apply standard precautions during use of the product. Avoid inhalation of vapours.

##### 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

Keep damming materials near the workplace. If possible, collect spillage during work.

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

##### Generally

Use only UKCA marked protective equipment.

##### Respiratory Equipment

No specific requirements

##### Skin protection

Recommended	Type/Category	Standards
No special when used as intended	-	-

##### Hand protection

Material	Glove thickness (mm)	Breakthrough time (min.)	Standards
Nitrile - Discard immediately after use	0.2	> 240	EN374-2, EN374-3, EN388



##### Eye protection

Type	Standards

## SECTION 9: Physical and chemical properties

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

#### Physical state

Liquid

#### Colour

Clear

#### Odour / Odour threshold

Faint

#### pH

14

#### ▼ pH in solution

(0,25%)

#### ▼ Density (g/cm<sup>3</sup>)

1.14 (20 °C)

According to REACH Regulation (EC) No 1907/2006, as retained and amended SI 2019/758 and SI 2020/1577

- Kinematic viscosity
    - No data available
  - Particle characteristics
    - Not applicable - product is a liquid
  - Phase changes
    - Melting point/Freezing point (°C)
      - No data available
    - Softening point/range (waxes and pastes) (°C)
      - Does not apply to liquids.
    - Boiling point (°C)
      - 100
    - Vapour pressure
      - No data available
    - Relative vapour density
      - No data available
    - Decomposition temperature (°C)
      - No data available
  - Data on fire and explosion hazards
    - Flash point (°C)
      - No data available
    - Flammability (°C)
      - Not applicable
    - Auto-ignition temperature (°C)
      - Not applicable
    - Lower and upper explosion limit (% v/v)
      - Not applicable
  - Solubility
    - Solubility in water
      - Completely soluble
    - n-octanol/water coefficient
      - Testing not relevant or not possible due to the nature of the product.
    - Solubility in fat (g/L)
      - Testing not relevant or not possible due to the nature of the product.
- 9.2. Other information
- Evaporation rate (n-butylacetate = 100)
    - No data available
  - ▼ Oxidizing properties
    - Not applicable
  - Other physical and chemical parameters
    - 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 section 7 "Handling and storage".
- 10.3. Possibility of hazardous reactions
  - None known.
- 10.4. ▼ Conditions to avoid
  - Frost
- 10.5. ▼ Incompatible materials
  - Aluminum
- 10.6. ▼ Hazardous decomposition products
  - Thermal decomposition may produce corrosive vapours.

## SECTION 11: Toxicological information

- 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008 as retained and amended in UK law

According to REACH Regulation (EC) No 1907/2006, as retained and amended SI 2019/758 and SI 2020/1577

#### ▼ Acute toxicity

Product/substance sodium hydroxide  
 Species: Rat  
 Route of exposure: Oral  
 Test: LD50  
 Result: 325 mg/kg ·

Product/substance disodium metasilicate  
 Species: Rat  
 Route of exposure: Dermal  
 Test: LD50  
 Result: >5000 mg/kg

Product/substance disodium metasilicate  
 Species: Rat  
 Route of exposure: Dermal  
 Test: LD50  
 Result: > 5000 mg/kg ·

#### ▼ Skin corrosion/irritation

Product/substance disodium metasilicate  
 Test method: OECD 404  
 Species: Rabbit  
 Result: Adverse effect observed (Corrosive)

Causes severe skin burns and eye damage.

#### ▼ Serious eye damage/irritation

Product/substance disodium metasilicate  
 Species: Rabbit  
 Result: Adverse effect observed (Corrosive)

Causes serious eye damage.

#### Respiratory sensitisation

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

#### ▼ Skin sensitisation

Product/substance sodium hydroxide  
 Species: Rabbit  
 Result: Adverse effect observed (sensitising)

Product/substance disodium metasilicate  
 Test method: OECD 429  
 Species: Mouse  
 Result: No adverse effect observed (not sensitising)

#### ▼ Germ cell mutagenicity

Product/substance disodium metasilicate  
 Conclusion: No adverse effect observed

#### ▼ Carcinogenicity

Product/substance disodium metasilicate  
 Conclusion: No adverse effect observed

#### ▼ Reproductive toxicity

Product/substance disodium metasilicate  
 Species: Rat, Sprague-Dawley, female  
 Result: >159 mg/kg bw/day  
 Conclusion: No adverse effect observed

#### ▼ STOT-single exposure

Product/substance disodium metasilicate  
 Route of exposure: Inhalation  
 Conclusion: Adverse effect observed

#### ▼ STOT-repeated exposure

Product/substance disodium metasilicate  
 Conclusion: No adverse effect observed

#### Aspiration hazard

According to REACH Regulation (EC) No 1907/2006, as retained and amended SI 2019/758 and SI 2020/1577

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

## 11.2. Information on other hazards

### ▼ Long term effects

Tissue-damaging effects: This product contains substances with skin corrosive properties. Inhaled vapour or aerosols may produce adverse effects to lungs, irritations and burns in the respiratory organs as well as coughing. Dermal contact and contact with the eye cause irreversible effects.

### ▼ Endocrine disrupting properties

This mixture/product does not contain any substances considered to have hormone-disrupting properties in relation to health.

### Other information

None known.

## SECTION 12: Ecological information

### 12.1. ▼ Toxicity

Product/substance	sodium hydroxide
Species:	Fish
Duration:	7 days
Test:	LC50
Result:	125 mg/l ·

Product/substance	sodium hydroxide
Species:	Daphnia
Duration:	24 hours
Test:	EC50
Result:	145 mg/l ·

Product/substance	sodium hydroxide
Species:	Crustacean
Duration:	15 min
Test:	EC50
Result:	22 mg/l ·

Product/substance	sodium hydroxide
Species:	Daphnia, Ceriodaphnia dubia
Duration:	48 hours
Test:	EC50
Result:	40,4 mg/L

Product/substance	disodium metasilicate
Species:	Fish, Danio rerio
Duration:	96 hours
Test:	LC50
Result:	210 mg/L

Product/substance	disodium metasilicate
Test method:	OECD 202
Species:	Daphnia, Daphnia magna
Duration:	48 hours
Test:	EC50
Result:	1700 mg/L

Product/substance	disodium metasilicate
Test method:	DIN 38412
Species:	Algae, Scenedesmus subspicatus
Duration:	72 hours
Test:	EC50
Result:	> 345,4 mg/L

### 12.2. ▼ Persistence and degradability

The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No 648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.



According to REACH Regulation (EC) No 1907/2006, as retained and amended SI 2019/758 and SI 2020/1577

### 12.3. ▼ Bioaccumulative potential

Product/substance sodium hydroxide  
 Potential bioaccumulation: No  
 LogPow: No data available.  
 BCF: No data available.

Product/substance disodium metasilicate  
 Potential bioaccumulation: No  
 LogPow: No data available.  
 BCF: No data available.

### 12.4. Mobility in soil

No data available.

### 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. ▼ Endocrine disrupting properties

This mixture/product does not contain any substances considered to have endocrine-disrupting properties in relation to the environment.

### 12.7. Other adverse effects

None known.

## SECTION 13: Disposal considerations

### ▼ Waste treatment methods

Product is covered by the regulations on hazardous waste. (\*)

HP 8 – Corrosive

Dispose of contents/container to an approved waste disposal plant.

Regulation (EU) No 1357/2014 of 18 December 2014 on waste as retained and amended in UK law.

### EWC code




20 01 15\* Alkalines

### ▼ Specific labelling

#### Contaminated packing

Packaging containing residues of the product must be disposed of similarly to the product.

## SECTION 14: Transport information

	14.1 UN / ID	14.2 UN proper shipping name	14.3 Hazard class(es)	14.4 PG*	14.5 Env**	Other information:
ADR	UN1760	CORROSIVE LIQUID, N.O.S. (sodium hydroxide)	Transport hazard class: 8 Label: 8 Classification code: C9 	I	No	Limited quantities: 0 Tunnel restriction code: (E) See below for additional information.
IMDG	UN1760	CORROSIVE LIQUID, N.O.S. (sodium hydroxide)	Transport hazard class: 8 Label: 8 Classification code: C9 	I	No	Limited quantities: 0 EmS: F-A S-B See below for additional information.
IATA	UN1760	CORROSIVE LIQUID, N.O.S. (sodium hydroxide)	Transport hazard class: 8 Label: 8 Classification code: C9 	I	No	See below for additional information.

According to REACH Regulation (EC) No 1907/2006, as retained and amended SI 2019/758 and SI 2020/1577

\* Packing group

\*\* Environmental hazards

▼ Additional information

ADR / See Table A, section 3.2.1 for any information on special provisions, requirements, or warnings in connection with transport. See section 5.4.3, for instructions in writing regarding mitigation of damages in relation to incidents or accidents during transport.

IMDG / See section 3.2.1, for any information on special provisions, requirements, or warnings in connection with transport.

IATA / See Table 4.2 for any information on special provisions, requirements, or warnings in connection with transport.

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

Hazchem Code: 2X

14.6. Special precautions for user

Not applicable.

14.7. Maritime transport in bulk according to IMO instruments

No data available.

## SECTION 15: Regulatory information

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

#### Restrictions for application

Restricted to professional users.

People under the age of 18 shall not be exposed to this product.

#### Demands for specific education

No specific requirements.

#### SEVESO - Categories / dangerous substances

Not applicable.

#### Additional information

Not applicable.

#### Sources

The Management of Health and Safety at Work Regulations 1999.

Regulation (EC) No 648/2004 on detergents as retained and amended in UK law.

Regulation (EU) No 1357/2014 of 18 December 2014 on waste as retained and amended in UK law.

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures (CLP) as retained and amended in UK law.

Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) as retained and amended in UK law.

### 15.2. Chemical safety assessment

No

## SECTION 16: Other information

### ▼ Full text of H-phrases as mentioned in section 3

H314, Causes severe skin burns and eye damage.

H315, Causes skin irritation.

H318, Causes serious eye damage.

H319, Causes serious eye irritation.

H335, May cause respiratory irritation.

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

LCS "PW" = Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

LCS "C" = Consumer uses: Private households (= general public = consumers)

PROC 8a = Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities

PC 35 = Washing and Cleaning Products (including solvent based products)

ERC 8a = Wide dispersive indoor use of processing aids in open systems

ERC 8b = Wide dispersive indoor use of reactive substances in open systems

### Abbreviations and acronyms

ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway

ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road

ATE = Acute Toxicity Estimate

According to REACH Regulation (EC) No 1907/2006, as retained and amended SI 2019/758 and SI 2020/1577

BCF = Bioconcentration Factor  
CAS = Chemical Abstracts Service  
CE = Conformité Européenne (European conformity)  
CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]  
CSA = Chemical Safety Assessment  
CSR = Chemical Safety Report  
DMEL = Derived Minimal Effect Level  
DNEL = Derived No Effect Level  
EINECS = European Inventory of Existing Commercial chemical Substances  
ES = Exposure Scenario  
EUH statement = CLP-specific Hazard statement  
EuPCS = European Product Categorisation System  
EWC = European Waste Catalogue  
GHS = Globally Harmonized System of Classification and Labelling of Chemicals  
IARC = International Agency for Research on Cancer (IARC)  
IATA = International Air Transport Association  
IBC = Intermediate Bulk Container  
IMDG = International Maritime Dangerous Goods  
LogPow = logarithm of the octanol/water partition coefficient  
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)  
OECD = Organisation for Economic Co-operation and Development  
PBT = Persistent, Bioaccumulative and Toxic  
PNEC = Predicted No Effect Concentration  
RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail  
RRN = REACH Registration Number  
SCL = A specific concentration limit  
SVHC = Substances of Very High Concern  
STOT-RE = Specific Target Organ Toxicity - Repeated Exposure  
STOT-SE = Specific Target Organ Toxicity - Single Exposure  
TWA = Time weighted average  
UN = United Nations  
UVBC = Unknown or variable composition, complex reaction products or of biological materials  
VOC = Volatile Organic Compound  
vPvB = Very Persistent and Very Bioaccumulative

#### Additional information

The classification of the substance/mixture in regard of health hazards are in accordance with the calculation methods given by Regulation (EC) No. 1272/2008 (CLP) as retained and amended in UK law.

#### ▼ The safety data sheet is validated by

RH

#### Other

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

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.

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.

Country-language: GB-en