



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

1.1. Product identifier

Name of product Bio-Universalreiniger

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

Identified uses

Sector of uses [SU]

SU22 - Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

SU3 - Industrial uses: Uses of substances as such or in preparations at industrial sites

Recommended intended purpose(s)

Cleaner and degreaser

1.3. Details of the supplier of the safety data sheet

Manufacturer/distributor

joke Technology GmbH
Asselborner Weg 14-16, D-51429 Bergisch Gladbach
Phone +49 (0) 22 04 – 8 39 - 0, Fax +49 (0) 22 04 – 8 39 - 60
E-Mail info@joke.de
Internet www.joke.de

Advice

Markus Abstoss
Phone +49 (0) 22 04 – 8 39 - 577
Fax +49 (0) 22 04 – 8 39 - 60
E-mail (competent person):
m.abstoss@joke.de

1.4. Emergency telephone number

Emergency advice

Vergiftungs-I-Z. Freiburg
Phone +49 (0)761 19240
REACH and CLP UK CA Help Desk; Telephone: +44
171 635 9191

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Hazard statements for physical hazards

No data available

Hazard statements for health hazards

No data available

Hazard statements for environmental hazards

No data available

Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]

Additional hints

The substance is not classified as hazardous according to Directive 67/548/EEC.

2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008 [CLP/GHS]



Hazard statements for physical hazards

No data available

Hazard statements for health hazards

No data available

Hazard statements for environmental hazards

No data available

2.3. Other hazards

Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

SECTION 3: Composition/ information on ingredients

3.1. Substances

not applicable

3.2. Mixtures

Hazardous ingredients

CAS No	EC No	Name	[% weight]	Classification according to Regulation (EC) No 1272/2008 [CLP/ GHS]
111-76-2	203-905-0	butylcellosolve	1 < 5	Acute Tox. 4, H332 / Acute Tox. 4, H312 / Acute Tox. 4, H302 / Eye Irrit. 2, H319 / Skin Irrit. 2, H315
120313-48-6		Fettalkoholalkoxylat	1 < 5	Skin Irrit. 2, H315 /

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Take affected person into fresh air.

Keep immobile and cover..

In case of inhalation

Remove the casualty into fresh air and keep him immobile.

Ensure of fresh air.

In case of skin contact

In case of contact with skin wash off immediately with plenty of water.

Remove contaminated clothing immediately, even underwear and shoes.

In case of eye contact

In case of contact with eyes rinse thoroughly with plenty of water and seek medical advice.

In case of ingestion

Silence.

If swallowed give water to drink.

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

Physician's information / possible symptoms

No data available

Physician's information / possible dangers

No data available



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

Treatment (Advice to doctor)

Treat symptoms.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Fire-extinguishing activities according to surrounding.

Unsuitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

Carbon dioxide (CO₂)

Sulfur oxide

5.3. Advice for firefighters

Special protective equipment for fire-fighters

Use breathing apparatus with independent air supply.

Additional information

Cool endangered containers with water spray jet.

Collect contaminated firefighting water separately, must not be discharged into the drains.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Ensure adequate ventilation.

Remove persons to safety.

Use personal protective clothing.

Keep away sources of ignition.

High risk of slipping due to leakage/spillage of product.

6.2. Environmental precautions

Do not discharge into the drains or bodies of water..

Prevent spread over a wide area (e.g. by containment or oil barriers).

6.3. Methods and material for containment and cleaning up

Take up with absorbent material (e.g. sand, kieselguhr, acid binder, general-purpose binder, sawdust).

Clean contaminated objects and floor thoroughly under consideration of environment regulations.

Take up mechanically and send for disposal.

Additional Information

Informations for safe handling see chapter 7.

Informations for personal protective equipment see chapter 8.

Informations for disposal see chapter 13.

6.4. Reference to other sections

Safe handling: see section 7

Disposal: see section 13

Personal protection equipment: see section 8

Emergency telephone number: see section 1



SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Use only in well-ventilated areas.
Take the usual precautions when handling with chemicals.

General protective measures

No data available

Hygiene measures

Clean skin thoroughly after working.
At work do not eat, drink and smoke.
Wash hands before breaks and after work.
Use barrier skin cream.

Advice on protection against fire and explosion

Pay attention to general rules of internal fire prevention.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep in closed original container.

Advice on storage compatibility

Do not store with oxidizing agents.
Do not store together with animal feedstuffs.
Do not store together with food.

Further information on storage conditions

Keep container dry and tightly closed.
Store at 5 to 40°C (=41 to 104°F).

Information on storage stability

Storage stability 12 months maximum.

Storage group 12

7.3. Specific end use(s)

Recommendation(s) for intended use

No data available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Indicative occupational exposure limit values (91/322/EEC, 2000/39/EC, 2004/37/EC, 2006/15/EC or 2009/161/EU)

CAS No	Name	Code	[mg/m ³]	[ppm]	Remark
111-76-2	2-butoxyethanol	8 hours	98	20	skin
		Short-term	246	50	

biological limits (TRGS 903)

CAS No	Name	Parameter	BGW	Examination material	Test date
111-76-2	2-butoxyethanol	Butoxyessigsäure (nach Hydrolyse)	150 mg/g Kreatinin	U	b, c



8.2. Exposure controls

Respiratory protection

Breathing apparatus in the event of high concentrations.

Hand protection

Protective gloves

Angaben zum Handschuhmaterial [Art/Typ, Dicke, Durchdringzeit/Tragedauer, Benetzungstärke]: level 6, >480 Minuten, Dicke 0,9-1 mm, EN 374 Kat III

Eye protection

safety goggles with side protection

Other protection measures

chemical resistant clothing recommended

Limitation and surveillance of the environment

Product related measures to prevent exposure

Take appropriate protective measures to limit or prevent emissions.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

liquid

Colour

colourless

Odour

characteristic

Odour threshold

No data available

Important health, safety and environmental information

	Value	Temperature	at	Method	Remark
pH value	12,5	20 °C		DIN 51369	
Boiling temperature / boiling range	not applicable				
Melting point / Freezing point	not applicable				
Flash point	not applicable				
Vapourisation rate	not applicable				
Flammable (solid)	not applicable				
Flammability (gas)	not applicable				
Ignition temperature	not applicable				
Self ignition temperature	not applicable				
Lower explosion limit	not applicable				
Upper explosion limit	not applicable				



	Value	Temperature	at	Method	Remark
Vapour pressure	not applicable				
Relative density	1 g/cm ³	20 °C		DIN EN ISO 12185	
Bulk density	not applicable				
Vapour density	not applicable				
Solubility in water	not applicable				
Solubility/other	not applicable				
Partition coefficient n-octanol/water (log P O/W)	not applicable				
Decomposition temperature	not applicable				
Viscosity	3,24 mm ² /s	20 °C		ASTM D 7042	
Solvent separation test	not applicable				
Solvent content	not applicable				
Water content	not applicable				
Solids content	not applicable				
Combustion value	No data available				
Sensitiveness to impact	No data available				
Oxidising properties	No data available				
Explosive properties	No data available				
9.2. Other information	No information available.				

SECTION 10: Stability and reactivity

10.1. Reactivity

No information available.

10.2. Chemical stability

No information available.

10.3. Possibility of hazardous reactions

No information available.



10.4. Conditions to avoid

No information available.

10.5. Incompatible materials

Substances to avoid

Oxidising agent, strong

10.6. Hazardous decomposition products

no

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity/Irritation/Sensitization

	Value/Validation	Species	Method	Remark
LD50 acute oral	470 mg/kg	rat	LD50	
LD50 acute dermal	1100 mg/kg	rat	ATE (acute toxicity estimate)	
LC50 acute inhalation	11 mg/l ()	rat	ATE	
Skin irritation	No data available			
Eye irritation	No data available			
Skin sensitization	No data available			
Sensitization respiratory system	No data available			

Subacute Toxicity - Carcinogenicity

	Value	Species	Method	Validation
Subacute Toxicity				No data available
Subchronic Toxicity				No data available
Chronic Toxicity				No data available
Mutagenicity				No data available
Reproduction-Toxicity				No data available
Carcinogenicity				No data available



Specific target organ toxicity (single exposure)

No data available

Specific target organ toxicity (repeated exposure)

No data available

Aspiration hazard

No data available

Toxicity test (Additional information)

No data available

Experiences made from practice

No data available

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicological effects

	Value	Species	Method	Validation
Fish	1490 mg/l (96 h)	Lepomis macrochirus	LC50	

12.2. Persistence and degradability

	Elimination rate	Method of analysis	Method	Validation
Physico-chemical degradability				No data available
Biological degradability				Biodegradable
Degradability				Biodegradable
Biological eliminability				No data available
Degradability according to WRMG				Biodegradable

12.3. Bioaccumulative potential

Because of its consistency the product cannot be dispersed in the environment. Adverse ecological effects are therefore unlikely on the basis of current knowledge.

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6. Other adverse effects

No data available

Behaviour in sewage plant

No data available



SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste code No.	Name of waste
07 06 01*	aqueous washing liquids and mother liquors
15 01 02	plastic packaging

Wastes marked with an asterisk are considered to be hazardous waste pursuant to Directive 2008/98/EC on hazardous waste.

Recommendations for the product

Remove in accordance with local official regulations.

Recommendations for packaging

Totally emptied packaging may be taken for recycling.

Recommended cleansing agent

water

SECTION 14: Transport information

	ADR/RID	IMDG	IATA-DGR
14.1. UN number	-	-	-
14.2. UN proper shipping name	-	-	-
14.3. Transport hazard class(es)	-	-	-
14.4. Packing group	-	-	-
14.5. Environmental hazards	-	-	-

14.6. Special precautions for user

No data available

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

No data available

Land and inland navigation transport ADR/RID

No dangerous goods as defined by these transport regulations.

Marine transport IMDG

No dangerous goods as defined by these transport regulations.

Air transport ICAO/IATA-DGR

No dangerous goods as defined by these transport regulations.

Transport/further information

No dangerous goods as defined by the transport regulations - ADR/RID, IMDG, ICAO/IATA-DGR.



SECTION 15: Regulatory information

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

Authorizations

The product is not subject to labeling.

Application restrictions

No data available

Other regulations (EU)

Regulation (EC) No 648/2004 (Detergents regulation).

National regulations

Restriction of occupation

No data available

Other regulations, restrictions and prohibition regulations

No data available

Water hazard class	1	VwVwS v. 27.05.2005 slightly hazardous to water
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15.2. Chemical Safety Assessment

No data available

SECTION 16: Other information

Training advice

no

Recommended uses and restrictions

National and local regulations concerning chemicals shall be observed.

Further information

The information contained herein is based on the state of our knowledge. It characterizes the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properties of the product.

Sources of key data used

Europäische Chemikalienagentur, <http://echa.europa.eu/>.

H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.