

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

Jokisch Fosia Clean Uni ; Jokisch Luxan Clean Uni

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P321

Specific treatment (see Hazard statements on this label).

2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients**3.2. Mixtures****Relevant ingredients**

CAS No	Chemical name	Quantity		
	EC No	Index No	REACH No	
	Classification (Regulation (EC) No 1272/2008)			
111-76-2	2-butoxyethanol; ethyleneglycol monobutyl ether; butyl cellosolve			2.5 - < 5 %
	203-905-0	603-014-00-0	01-2119475108-36	
	Acute Tox. 3, Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2; H331 H302 H315 H319			
26468-86-0	2-Ethylhexanoethoxylat			2.5 - < 5 %
	Eye Irrit. 2; H319			
54549-24-5	C6 Alkylglucosid			2.5 - < 5 %
	259-217-6		01-2119492545-29	
	Eye Dam. 1; H318			
10213-79-3	disodium metasilicate			1 - < 2.5 %
	229-912-9	014-010-00-8	01-2119449811-37	
	Met. Corr. 1, Skin Corr. 1B, STOT SE 3; H290 H314 H335			

Full text of H and EUH statements: see section 16.

Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity	
	Specific Conc. Limits, M-factors and ATE			
111-76-2	203-905-0	2-butoxyethanol; ethyleneglycol monobutyl ether; butyl cellosolve	2.5 - < 5 %	
	inhalation: ATE 3 mg/l (vapours); oral: ATE 1200 mg/kg			
26468-86-0		2-Ethylhexanoethoxylat	2.5 - < 5 %	
	inhalation: LC50 = 20 mg/l (vapours); dermal: LD50 = > 2000 - 5000 mg/kg; oral: LD50 = > 2000 - 5000 mg/kg			
54549-24-5	259-217-6	C6 Alkylglucosid	2.5 - < 5 %	
	dermal: LD50 = > 2000 mg/kg; oral: LD50 = > 2000 mg/kg			

SECTION 4: First aid measures**4.1. Description of first aid measures****General information**

In all cases of doubt, or when symptoms persist, seek medical advice.

After inhalation

Provide fresh air. Move victim to fresh air. Put victim at rest and keep warm.

After contact with skinAfter contact with skin, wash immediately with: Water. Change contaminated clothing.
Rub greasy ointment into the skin. If skin irritation occurs: Get medical advice/attention.**After contact with eyes**

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

After ingestion

If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain



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immediate medical attention.

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

Causes skin irritation. Causes serious eye irritation.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings.

Suitable extinguishing media: Water. Foam. Extinguishing powder. Carbon dioxide (CO₂). Sand. Nitrogen.

Unsuitable extinguishing media

High power water jet.

5.2. Special hazards arising from the substance or mixture

Non-flammable. Vapours can form explosive mixtures with air. No information available.

5.3. Advice for firefighters

Do not inhale explosion and combustion gases. Wear a self-contained breathing apparatus and chemical protective clothing.

Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

Use water spray jet to protect personnel and to cool endangered containers. Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General advice

Special danger of slipping by leaking/spilling product.

See protective measures under point 7 and 8.

For non-emergency personnel

Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes.

For emergency responders

Use personal protection equipment.

6.2. Environmental precautions

Do not allow to enter into surface water or drains. Do not allow to enter into surface water or drains. Prevent spread over a wide area (e.g. by containment or oil barriers).

6.3. Methods and material for containment and cleaning up

Other information

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal. Suitable material for taking up: Sand, Universal binding agent. Treat the recovered material as prescribed in the section on waste disposal. Clean contaminated articles and floor according to the environmental legislation.

6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

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Advice on safe handling

When using do not eat, drink or smoke.

Keep container tightly closed.

Keep/Store only in original container. Protect against: frost.

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray.

Advice on protection against fire and explosion

Usual measures for fire prevention.

Advice on general occupational hygiene

Change contaminated clothing. Wash hands before breaks and after work. When using do not eat or drink.

Do not put any product-impregnated cleaning rags into your trouser pockets. Avoid contact with skin, eyes and clothes.

Further information on handling

High slip hazard because of leaking or spilled product.

7.2. Conditions for safe storage, including any incompatibilities**Requirements for storage rooms and vessels**

Keep container tightly closed. Keep the packing dry and well sealed to prevent contamination and absorption of humidity.

Recommended storage temperature: 5-40 °C

Maximum period of storage (time): 1 year

Hints on joint storage

Keep away from food, drink and animal feedingstuffs.

Further information on storage conditions

Protect from sunlight. Store in a well-ventilated place.

7.3. Specific end use(s)

Washing and cleaning products (including solvent based products)

SECTION 8: Exposure controls/personal protection**8.1. Control parameters****Occupational exposure limits**

CAS No	Substance	ppm	mg/m ³	fib/cm ³	Category	Origin
111-76-2	2-Butoxyethanol (EGBE)	20	98		TWA (8 h)	
		50	246		STEL (15 min)	

Biological limit values

CAS No	Substance	Parameter	Value	Test material	Sampling time
111-76-2	2-Butoxyethanol	BAA	200 mg/g	Creatinine	End of shift

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DNEL/DMEL values

CAS No	Substance	Exposure route	Effect	Value
111-76-2	2-butoxyethanol; ethyleneglycol monobutyl ether; butyl cellosolve			
Worker DNEL, long-term		inhalation	systemic	98 mg/m ³
Worker DNEL, acute		inhalation	systemic	1091 mg/m ³
Worker DNEL, acute		inhalation	local	246 mg/m ³
Worker DNEL, long-term		dermal	systemic	125 mg/kg bw/day
Worker DNEL, acute		dermal	systemic	89 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	59 mg/m ³
Consumer DNEL, acute		inhalation	systemic	426 mg/m ³
Consumer DNEL, long-term		dermal	systemic	75 mg/kg bw/day
Consumer DNEL, acute		dermal	systemic	89 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	6,3 mg/kg bw/day
Consumer DNEL, acute		oral	systemic	26,7 mg/kg bw/day
Consumer DNEL, long-term		inhalation	local	147 mg/m ³
54549-24-5	C6 Alkylglucosid			
Worker DNEL, long-term		dermal	systemic	595000 mg/kg bw/day
Worker DNEL, long-term		inhalation	systemic	420 mg/m ³
Consumer DNEL, long-term		dermal	systemic	357000 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	124 mg/m ³
Consumer DNEL, long-term		oral	systemic	35,7 mg/kg bw/day
10213-79-3	disodium metasilicate			
Worker DNEL, long-term		inhalation	systemic	6,22 mg/m ³
Worker DNEL, long-term		dermal	systemic	1,49 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	1,55 mg/m ³
Consumer DNEL, long-term		dermal	systemic	0,74 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	0,74 mg/kg bw/day

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PNEC values

CAS No	Substance	Value
Environmental compartment		
111-76-2	2-butoxyethanol; ethyleneglycol monobutyl ether; butyl cellosolve	
Freshwater		8,8 mg/l
Marine water		0,88 mg/l
Freshwater sediment		34,6 mg/kg
Marine sediment		3,46 mg/kg
Secondary poisoning		20 mg/kg
Soil		2,33 mg/kg
54549-24-5	C6 Alkylglucosid	
Freshwater		0,176 mg/l
Marine water		0,018 mg/l
Freshwater sediment		0,722 mg/kg
Marine sediment		0,072 mg/kg
Soil		0,654
10213-79-3	disodium metasilicate	
Freshwater		7,5 mg/l
Marine water		1 mg/l

8.2. Exposure controls



Appropriate engineering controls

If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means.

Individual protection measures, such as personal protective equipment

Eye/face protection

Suitable eye protection: EN 166

Hand protection

Protect skin by using skin protective cream.

Wash hands before breaks and after work.

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Skin protection

Chemical resistant safety shoes.

Take off immediately all contaminated clothing.

Thorough skin-cleansing after handling the product.

Set out skin protection guidelines.

Respiratory protection

Respiratory protection necessary at: exceeding exposure limit values

Respiratory protection: DIN EN 141 Typ A

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SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Physical state:	liquid
Colour:	light red
Odour:	like: Solvent
Odour threshold:	not determined

Test method

Melting point/freezing point:	not determined
Boiling point or initial boiling point and boiling range:	not determined
Lower explosion limits:	not determined
Upper explosion limits:	not determined
Flash point:	> 60 °C
pH-Value (at 20 °C):	11,4 DIN 51369
Viscosity / kinematic: (at 20 °C)	,
Water solubility:	easily soluble
Partition coefficient n-octanol/water:	not determined
Vapour pressure:	not determined
Density (at 20 °C):	1,03 g/cm ³
Relative vapour density:	not determined

9.2. Other information**Information with regard to physical hazard classes**

Explosive properties

The product is not: Explosive.

Sustained combustibility:

No data available

Self-ignition temperature

Solid:

not applicable

Gas:

not applicable

Other safety characteristics

Evaporation rate:

not determined

Solid content:

not determined

Viscosity / dynamic:

not determined

Flow time:

not determined

Further Information

No information available.

SECTION 10: Stability and reactivity**10.1. Reactivity**

No hazardous reaction when handled and stored according to provisions.

10.2. Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

10.3. Possibility of hazardous reactions

No known hazardous reactions.

10.4. Conditions to avoid

frost.

10.5. Incompatible materials

Acids.

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10.6. Hazardous decomposition products

No information available.

SECTION 11: Toxicological information**11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008****Acute toxicity**

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

ATEmix calculated

ATE (oral) > 5000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 50 mg/l; ATE (inhalation dust/mist) > 5 mg/l

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
111-76-2	2-butoxyethanol; ethyleneglycol monobutyl ether; butyl cellosolve				
	oral	ATE 1200 mg/kg			
	inhalation vapour	ATE 3 mg/l			
26468-86-0	2-Ethylhexanoethoxylat				
	oral	LD50 > 2000 - 5000 mg/kg	Rat		
	dermal	LD50 > 2000 - 5000 mg/kg	Kaninchen		
	inhalation (4 h) vapour	LC50 20 mg/l	Ratte		
54549-24-5	C6 Alkylglucosid				
	oral	LD50 > 2000 mg/kg	Rat		
	dermal	LD50 > 2000 mg/kg	Rabbit		

Irritation and corrosivity

Skin corrosion/irritation: Causes skin irritation.

Serious eye damage/eye irritation: Causes serious eye damage.

Sensitising effects

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

Carcinogenic/mutagenic/toxic effects for reproduction

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

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

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

STOT-single exposure

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

STOT-repeated exposure

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

Aspiration hazard

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

Additional information on tests

No risks worthy of mention. Practical experience.

The statement is derived from the properties of the single components.

The classification was undertaken in accordance with the calculation method governed by the Preparations Directive (1999/45/EC).

11.2. Information on other hazards

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Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

Other information

Has de-greasing effect on the skin.

SECTION 12: Ecological information**12.1. Toxicity**

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

According to the present state of knowledge negative ecological effects are not expected.

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h] [d]	Species	Source	Method
111-76-2	2-butoxyethanol; ethyleneglycol monobutyl ether; butyl cellosolve					
	Acute fish toxicity	LC50 mg/l	1490	96 h	Lepomis macrochirus	
26468-86-0	2-Ethylhexanoethoxylat					
	Acute fish toxicity	LC50 mg/l	> 100	96 h	Oncorhynchus mykiss	
	Acute algae toxicity	ErC50 mg/l	> 100	72 h	Scenedesmus quadricauda	
	Acute crustacea toxicity	EC50 mg/l	> 100	48 h	Daphnia magna	
54549-24-5	C6 Alkylglucosid					
	Acute fish toxicity	LC50 mg/l	> 100	96 h	Oncorhynchus mykiss	
	Acute algae toxicity	ErC50 mg/l	> 100	72 h	Scenedesmus quadricauda	
	Acute crustacea toxicity	EC50 mg/l	> 100	48 h	Daphnia magna	
	Algae toxicity	NOEC mg/l	> 100	72 d		
	Crustacea toxicity	NOEC mg/l	> 1 - 100	21 d	Daphnia magna	

12.2. Persistence and degradability

The product has not been tested.

12.3. Bioaccumulative potential

The product has not been tested.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
111-76-2	2-butoxyethanol; ethyleneglycol monobutyl ether; butyl cellosolve	0,81 (25°C)
54549-24-5	C6 Alkylglucosid	1,75

12.4. Mobility in soil

in delivery condition: liquid

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. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.



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12.7. Other adverse effects

Avoid release to the environment.

Further information

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Do not allow to enter into surface water or drains. Dispose of waste according to applicable legislation.
Completely emptied packings can be re-cycled. Dispose of waste according to applicable legislation.

List of Wastes Code - residues/unused products

070601 WASTES FROM ORGANIC CHEMICAL PROCESSES; wastes from the MFSU of fats, grease, soaps, detergents, disinfectants and cosmetics; aqueous washing liquids and mother liquors; hazardous waste

List of Wastes Code - used product

070601 WASTES FROM ORGANIC CHEMICAL PROCESSES; wastes from the MFSU of fats, grease, soaps, detergents, disinfectants and cosmetics; aqueous washing liquids and mother liquors; hazardous waste

List of Wastes Code - contaminated packaging

150102 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); plastic packaging

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number or ID number: No dangerous good in sense of these transport regulations.

14.2. UN proper shipping name: No dangerous good in sense of these transport regulations.

14.3. Transport hazard class(es): No dangerous good in sense of these transport regulations.

14.4. Packing group: No dangerous good in sense of these transport regulations.

Other applicable information (land transport)

Not restricted

Inland waterways transport (ADN)

14.1. UN number or ID number: No dangerous good in sense of these transport regulations.

14.2. UN proper shipping name: No dangerous good in sense of these transport regulations.

14.3. Transport hazard class(es): No dangerous good in sense of these transport regulations.

14.4. Packing group: No dangerous good in sense of these transport regulations.

Other applicable information (inland waterways transport)

Not restricted

Marine transport (IMDG)

14.1. UN number or ID number: No dangerous good in sense of these transport regulations.

14.2. UN proper shipping name: No dangerous good in sense of these transport regulations.

14.3. Transport hazard class(es): No dangerous good in sense of these transport regulations.

14.4. Packing group: -

Other applicable information (marine transport)

Not restricted

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number or ID number: No dangerous good in sense of these transport regulations.

14.2. UN proper shipping name: No dangerous good in sense of these transport regulations.

14.3. Transport hazard class(es): No dangerous good in sense of these transport regulations.

14.4. Packing group: -

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Other applicable information (air transport)

Not restricted

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

14.6. Special precautions for user

Personal protection equipment: see section 8

14.7. Maritime transport in bulk according to IMO instruments

not applicable

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulatory information**

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 75

Directive 2010/75/EU on industrial emissions: 4,9 % (50,47 g/l)

Directive 2004/42/EC on VOC in paints and varnishes: 4,9 % (50,47 g/l)

Information according to Directive 2012/18/EU (SEVESO III): Not subject to 2012/18/EU (SEVESO III)

Additional information

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

National regulatory information

Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

Water hazard class (D): 1 - slightly hazardous to water

15.2. Chemical safety assessment

For this substance a chemical safety assessment has not been carried out.

SECTION 16: Other information**Changes**

This data sheet contains changes from the previous version in section(s): 1,15.

AICS (Australien), DSL (Kanada), IECSC (China), REACH (Europäische Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (Neuseeland), PICCS (Philippinen), TSCA (USA)

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Abbreviations and acronyms

Met. Corr. 1: Corrosive to metals, hazard category 1
 Acute Tox. 3: Acute toxicity, hazard category 3
 Acute Tox. 4: Acute toxicity, hazard category 4
 Skin Corr. 1B: Skin corrosion, sub-category 1B
 Skin Irrit. 2: Skin irritation, hazard category 2
 Eye Dam. 1: Serious eye damage, hazard category 1
 Eye Irrit. 2: Eye irritation, hazard category 2
 STOT SE 3: Specific target organ toxicity - single exposure, hazard category 3
 Repr. - Reproduktionstoxizität
 Asp. Tox. - Aspirationstoxizität
 Acute Tox. - Akute Toxizität
 Aquatic Acute - Akute aquatische Toxizität
 Aquatic Chronic - Chronische aquatische Toxizität
 Eye Dam. - Augenschaden/-reizung
 Eye Irrit. - Augenreizung
 Skin Corr. - Ätzwirkung auf die Haut
 Skin Irrit. - Hautreizung
 Skin Sens. - Hautallergen
 Resp. Sens. - Inhalationsallergen
 STOT SE - Spezifische Zielorgan-Toxizität - einmalige Exposition
 STOT RE - Spezifische Zielorgan-Toxizität - wiederholte Exposition
 VOC - Flüchtige organische Verbindungen

Classification for mixtures and used evaluation method according to Regulation (EC) No 1272/2008 [CLP]

Classification	Classification procedure
Skin Irrit. 2; H315	Calculation method
Eye Dam. 1; H318	Calculation method

Relevant H and EUH statements (number and full text)

H290 May be corrosive to metals.
 H302 Harmful if swallowed.
 H314 Causes severe skin burns and eye damage.
 H315 Causes skin irritation.
 H318 Causes serious eye damage.
 H319 Causes serious eye irritation.
 H331 Toxic if inhaled.
 H335 May cause respiratory irritation.

Further Information

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights.

(The data for the relevant ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)