

# Safety Data Sheet

according to Regulation (EC) No 1907/2006



## KRÄNZLE PLUS (412721, 412722)

Revision date: 07.04.2021

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

#### 1.1. Product identifier

KRÄNZLE PLUS (412721, 412722)

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

##### Use of the substance/mixture

EuPCS: PC-CLN-2 All-purpose (or multi-purpose) non-abrasive cleaners

Process categories [PROC] 8, 10, 11

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

Company name: Josef Kränzle GmbH & Co. KG

Street: Rudolf-Diesel-Straße 20

Place: D-89257 Illertissen

Telephone: 0049 (0)7303 9605 250

e-mail: [vertrieb@kraenzle.com](mailto:vertrieb@kraenzle.com)

Contact person: [vertrieb@kraenzle.com](mailto:vertrieb@kraenzle.com)

Internet: [www.kraenzle.com](http://www.kraenzle.com)

1.4. Emergency telephone number: +49 (0) 8331 930-6 (08:00 - 16:00 h)

### SECTION 2: Hazards identification

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

The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

#### 2.2. Label elements

##### Regulation (EC) No. 1272/2008

##### Special labelling of certain mixtures

EUH210 Safety data sheet available on request.

#### 2.3. Other hazards

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

The inhalation of dust/mist or aerosols causes irritation of the respiratory tract.

### SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

##### Hazardous components

CAS No	Chemical name	Quantity		
	EC No	Index No	REACH No	
	GHS Classification			
1569-02-4	1-ethoxy-2-propanol			1 - < 5 %
	216-374-5	603-177-00-8	01-2119462792-32	
	Flam. Liq. 3, STOT SE 3; H226 H336			
26183-52-8	fatty alcohol polyethoxilate			1 - < 5 %
	Acute Tox. 4, Eye Dam. 1; H302 H318			
112-34-5	2-(2-butoxyethoxy)ethanol, diethylene glycol monobutyl ether			1 - < 5 %
	203-961-6	603-096-00-8	01-2119475104-44	
	Eye Irrit. 2; H319			

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

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### Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
		Specific Conc. Limits, M-factors and ATE	
1569-02-4	216-374-5	1-ethoxy-2-propanol	1 - < 5 %
		inhalation: LC50 = >10000 mg/l (vapours); dermal: LD50 = 8100 mg/kg; oral: LD50 = >5000 mg/kg	
26183-52-8		fatty alcohol polyethoxilate	1 - < 5 %
		inhalation: LC50 = >5 mg/l (dusts or mists); dermal: LD50 = >2000 mg/kg; oral: LD50 = 500 mg/kg Eye Dam. 1; H318: >= 20 - 100	
112-34-5	203-961-6	2-(2-butoxyethoxy)ethanol, diethylene glycol monobutyl ether	1 - < 5 %
		inhalation: LC50 = >20 mg/l (vapours); dermal: LD50 = >2000 mg/kg; oral: LD50 = >2000 mg/kg	

### Labelling for contents according to Regulation (EC) No 648/2004

< 5 % non-ionic surfactants, < 5 % polycarboxylates, perfumes.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### After inhalation

Provide fresh air.

#### After contact with skin

Take off contaminated clothing and wash it before reuse.

#### After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water.

#### After ingestion

Rinse mouth immediately and drink plenty of water.

Do NOT induce vomiting.

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

No information available.

### 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

Water spray jet  
alcohol resistant foam  
Carbon dioxide  
Extinguishing powder

#### Unsuitable extinguishing media

Full water jet

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

Hazardous combustion products:

Carbon dioxide  
Carbon monoxide

### 5.3. Advice for firefighters

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

### Additional information

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

## SECTION 6: Accidental release measures

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

#### General measures

Use personal protection equipment.  
Avoid contact with skin, eyes and clothes.

### 6.2. Environmental precautions

Do not allow to enter into surface water or drains.  
Do not allow to enter into soil/subsoil.

### 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.

### 6.4. Reference to other sections

Personal protection equipment: see section 8  
Disposal: see section 13

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

#### Advice on safe handling

Avoid contact with skin, eyes and clothes.  
Do not mix with other chemicals.  
Use personal protection equipment.  
When using do not eat, drink or smoke.  
If extensively sprayed or used with high pressure equipment:  
Do not breathe gas/fumes/vapour/spray.  
Use only in well-ventilated areas.

#### Advice on protection against fire and explosion

No special fire protection measures are necessary.

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

#### Requirements for storage rooms and vessels

Keep container tightly closed.

#### Hints on joint storage

No special measures are necessary.

### 7.3. Specific end use(s)

There are no data available on the mixture itself.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Exposure limits (EH40)

CAS No	Substance	ppm	mg/m <sup>3</sup>	fibres/ml	Category	Origin
112-34-5	2-(2-Butoxyethoxy)ethanol	10	67.5		TWA (8 h)	WEL
		15	101.2		STEL (15 min)	WEL

### 8.2. Exposure controls

#### Protective and hygiene measures

Take off contaminated clothing.  
Wash hands before breaks and after work.  
When using do not eat, drink or smoke.

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### Eye/face protection

Eye protection: not required.

### Hand protection

Use of protective gloves:

A survey of suitable brands with detailed information on breakthrough times is available upon request.

Protective gloves may be waived, if equivalent measures allowing for an increased skin stress because of wet work are implemented (e. g. application of suitable skin protecting creams).

### Skin protection

Wear suitable work clothing.

### Respiratory protection

If extensively sprayed or used with high pressure equipment: combination filter A1/P2 (EN 143, EN 14387).

## SECTION 9: Physical and chemical properties

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

Physical state:	Liquid
Colour:	pink
Odour:	Perfumes, fragrances

#### Test method

pH-Value (at 20 °C):	10,3 - 11,0
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#### Changes in the physical state

Melting point:	approx. 0 °C
Boiling point or initial boiling point and boiling range:	approx. 100 °C
Flash point:	> 60 °C

#### Flammability

Solid/liquid:	not applicable
Gas:	not applicable
Lower explosion limits:	not determined
Upper explosion limits:	not determined

#### Self-ignition temperature

Solid:	not applicable
Gas:	not applicable
Decomposition temperature:	not determined

#### Oxidizing properties

Not oxidising.

Vapour pressure:	not determined
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Density (at 25 °C):	1,01 g/cm <sup>3</sup>
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Water solubility:	completely miscible
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#### Solubility in other solvents

not determined

Partition coefficient n-octanol/water:	not determined
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Viscosity / dynamic: (at 25 °C)	<10 mPa·s 50 1/s
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Relative vapour density:	not determined
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Evaporation rate:	not determined
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### 9.2. Other information

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Solid content:

not determined

### 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 stable under storage at normal ambient temperatures.

#### 10.3. Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

#### 10.4. Conditions to avoid

The product is stable under storage at normal ambient temperatures.

#### 10.5. Incompatible materials

No information available.

#### 10.6. Hazardous decomposition products

No known hazardous decomposition products.

### 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.

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
1569-02-4	1-ethoxy-2-propanol				
	oral	LD50 mg/kg	>5000	Rat	
	dermal	LD50 mg/kg	8100	Rabbit	
	inhalation (4 h) vapour	LC50 mg/l	>10000	Rat	
26183-52-8	fatty alcohol polyethoxilate				
	oral	LD50 mg/kg	500	Rat	ATE
	dermal	LD50 mg/kg	>2000	Rat	ATE
	inhalation aerosol	LC50	>5 mg/l	Rat	ATE
112-34-5	2-(2-butoxyethoxy)ethanol, diethylene glycol monobutyl ether				
	oral	LD50 mg/kg	>2000	Rat	ATE
	dermal	LD50 mg/kg	>2000	Rat	ATE
	inhalation vapour	LC50	>20 mg/l	Rat	ATE

##### Irritation and corrosivity

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

##### Sensitising effects

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

##### Carcinogenic/mutagenic/toxic effects for reproduction

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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.

## SECTION 12: Ecological information

### 12.1. Toxicity

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h]   [d]	Species	Source	Method
1569-02-4	1-ethoxy-2-propanol					
	Acute crustacea toxicity	EC50 mg/l	5,465	48 h	Daphnia magna (Big water flea)	
26183-52-8	fatty alcohol polyethoxilate					
	Acute algae toxicity	ErC50 mg/l	19,6	72 h		OECD 201
	Acute crustacea toxicity	EC50 mg/l	15,0	48 h	Daphnia magna (Big water flea)	OECD 202
112-34-5	2-(2-butoxyethoxy)ethanol, diethylene glycol monobutyl ether					
	Acute fish toxicity	LC50 mg/l	2780	96 h	Pimephales promelas (fathead minnow)	
	Acute algae toxicity	ErC50 mg/l	> 100		Scenedesmus subspicatus	
	Acute crustacea toxicity	EC50 mg/l	4950	48 h	Daphnia magna (Big water flea)	

### 12.2. Persistence and degradability

The surfactants contained in this mixture comply with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents.

CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
1569-02-4	1-ethoxy-2-propanol			
	OECD 301	>70	28	
	Readily biodegradable (according to OECD criteria).			
26183-52-8	fatty alcohol polyethoxilate			
	OECD 301	>60%	28	
	Readily biodegradable (according to OECD criteria).			
112-34-5	2-(2-butoxyethoxy)ethanol, diethylene glycol monobutyl ether			
	OECD 301	>60%	28	
	Readily biodegradable (according to OECD criteria).			

### 12.3. Bioaccumulative potential

No indication of bioaccumulation potential.

### Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
1569-02-4	1-ethoxy-2-propanol	<1
112-34-5	2-(2-butoxyethoxy)ethanol, diethylene glycol monobutyl ether	0,56

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### BCF

CAS No	Chemical name	BCF	Species	Source
1569-02-4	1-ethoxy-2-propanol	3,16		

#### 12.4. Mobility in soil

The product has not been tested.

#### 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.

#### 12.7. Other adverse effects

No information available.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

#### Disposal recommendations

Dispose of waste according to applicable legislation.  
Delivery to an approved waste disposal company.

#### List of Wastes Code - residues/unused products

070699 WASTES FROM ORGANIC CHEMICAL PROCESSES; wastes from the MFSU of fats, grease, soaps, detergents, disinfectants and cosmetics; wastes not otherwise specified

#### 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

#### Contaminated packaging

Non-contaminated packages may be recycled.

## SECTION 14: Transport information

### Land transport (ADR/RID)

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

### Inland waterways transport (ADN)

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

### Marine transport (IMDG)

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

### Air transport (ICAO-TI/IATA-DGR)

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

### 14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

### 14.6. Special precautions for user

No special measures are necessary.

### 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 55

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2010/75/EU (VOC): <30%

### Additional information

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

### National regulatory information

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

### 15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

## SECTION 16: Other information

### Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route  
(European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service

LC50: Lethal concentration, 50%

LD50: Lethal dose, 50%

Process categories according to ECHA guidance on information requirements and chemical safety assessment, chapter R.12:

PROC 1: Use in closed processes.

PROC 2: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions

PROC 4: Chemical production where opportunity for exposure arises

PROC 7: Industrial spraying

PROC 8 (Transfer): Dilution of concentrated products, application of drain cleaners, dosage of textile washing agents.

PROC 9: Transfer of substance or mixture into small containers (dedicated filling line, including weighing)

PROC 10 (Roller application or brushing): Processing without large-scale spraying.

PROC 11 (Spraying outside industrial settings): Processing with large-scale spraying (e. g. high pressure cleaning, foam gun).

PROC 13: Treatment of articles by dipping and pouring

PROC 19 (Hand-mixing with intimate contact): Hand cleaning and disinfection

### Relevant H and EUH statements (number and full text)

H226 Flammable liquid and vapour.

H302 Harmful if swallowed.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

EUH210 Safety data sheet available on request.

### Further Information

Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]: 9 (1)

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.



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