

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**ATTILA DER KRUSTENBRECHER**

Revision date: 26.03.2018

Product code: 70705\_CLP

Page 1 of 11

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

ATTILA DER KRUSTENBRECHER

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

Cleaning agent, alkaline  
Reserved for industrial and professional use.

**Uses advised against**

No information available.

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

Company name:	DR.SCHNELL GmbH & Co. KGaA	
Street:	Tanusstraße 19	
Place:	D-80807 München	
Telephone:	+49/89/350608-0	Telefax: +49/89/350608-47
e-mail:	info@dr-schnell.de	
Contact person:	Josef Feuerstein	Telephone: +49/89/350608-46
e-mail:	sdb@dr-schnell.de	
Internet:	www.dr-schnell.de	
Responsible Department:	Labor	

**1.4. Emergency telephone number:**

Emergency CONTACT (24-Hour-Number) international:  
GBK GmbH +49 (0) 61 32 - 8 44 63

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Regulation (EC) No. 1272/2008**

Hazard categories:  
Skin corrosion/irritation: Skin Corr. 1A  
Serious eye damage/eye irritation: Eye Dam. 1  
Hazard Statements:  
Causes severe skin burns and eye damage.  
Causes serious eye damage.

**2.2. Label elements****Regulation (EC) No. 1272/2008****Hazard components for labelling**

2-(2-Butoxyethoxy)ethanol  
2-amino-2-methylpropanol  
caustic potash, potassium hydroxide  
3-butoxypropan-2-ol

**Signal word:** Danger**Pictograms:****Hazard statements**

H314 Causes severe skin burns and eye damage.

**Precautionary statements**

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### ATTILA DER KRUSTENBRECHER

Revision date: 26.03.2018

Product code: 70705\_CLP

Page 2 of 11

P280	Wear protective gloves/protective clothing/eye protection/face protection.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER/doctor.

#### 2.3. Other hazards

The components in this formulation do not meet the criteria for classification as PBT or vPvB. High pH value can damage water.

### SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

##### Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification according to Regulation (EC) No. 1272/2008 [CLP]			
112-34-5	2-(2-Butoxyethoxy)ethanol			5 - < 10 %
	203-961-6	603-096-00-8		
	Eye Irrit. 2; H319			
124-68-5	2-amino-2-methylpropanol			1 - < 5 %
	204-709-8	603-070-00-6		
	Eye Irrit. 2, Skin Irrit. 2, Aquatic Chronic 3; H319 H315 H412			
1310-58-3	caustic potash, potassium hydroxide			1 - < 5 %
	215-181-3	019-002-00-8	01-2119487136-33	
	Met. Corr. 1, Acute Tox. 4, Skin Corr. 1A; H290 H302 H314			
5131-66-8	3-butoxypropan-2-ol			1 - < 5 %
	225-878-4		01-2119475527-28	
	Skin Irrit. 2, Eye Irrit. 2; H315 H319			
11138-66-2	Xanthan Gum			< 1 %
	234-394-2			

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

#### Further Information

Regulation (EC) No. 648/2004 (Detergents regulation)  
<5% amphoteric surfactants, nonionic surfactants

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

##### After inhalation

Move victim out of danger zone. Provide fresh air.  
In all cases of doubt, or when symptoms persist, seek medical advice.

##### After contact with skin

After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water. In case of skin irritation, seek medical treatment.

##### After contact with eyes

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

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### ATTILA DER KRUSTENBRECHER

Revision date: 26.03.2018

Product code: 70705\_CLP

Page 3 of 11

Remove contact lenses, if present and easy to do. Continue rinsing.  
Call a physician immediately. To be accompanied by MSDS.

#### **After ingestion**

Do NOT induce vomiting.  
Rinse mouth immediately and drink plenty of water.  
Call a physician immediately.

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

If applicable, delayed symptoms and effects can be found in section 11. , i.e. under section 4.1 for absorption methods.

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

No special measures are necessary.

### SECTION 5: Firefighting measures

#### **5.1. Extinguishing media**

##### **Suitable extinguishing media**

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

##### **Unsuitable extinguishing media**

No information available.

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

Hazardous combustion products  
Oxides of carbon  
Nitrogen oxides (NOx).  
Pyrolysis products, toxic.

#### **5.3. Advice for firefighters**

In case of fire and/or explosion do not breathe fumes.  
In case of fire: Wear self-contained breathing apparatus.  
If necessary Full protective suit.

#### **Additional information**

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.  
Dispose of waste according to applicable legislation.

### SECTION 6: Accidental release measures

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

Provide adequate ventilation.  
Avoid contact with eyes and skin.  
Avoid breathing dust/fume/gas/mist/vapours/spray.  
If necessary Caution, slippery

#### **6.2. Environmental precautions**

Prevent spread over a wide area (e.g. by containment or oil barriers).  
Do not allow to enter into surface water or drains.  
Leakage into waters, ground or the drainage system, the appropriate authorities must be informed.

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

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).  
Treat the recovered material as prescribed in the section on waste disposal.  
Neutralisation possible by an expert.

#### **6.4. Reference to other sections**

For personal protective equipment see Section 8 and for disposal instructions see Section 13.

### SECTION 7: Handling and storage

#### **7.1. Precautions for safe handling**

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### ATTILA DER KRUSTENBRECHER

Revision date: 26.03.2018

Product code: 70705\_CLP

Page 4 of 11

#### Advice on safe handling

In addition to the information contained in this section, relevant information can also be found in sections 8 and 6.1.

#### Further information on handling

Provide adequate ventilation.  
 Avoid contact with eyes and skin.  
 When using do not eat, drink or smoke.  
 Observe instructions for use.  
 Notice the directions for use on the label.  
 Working methods should be applied according to operating instructions.  
 General hygiene measures for the handling of chemicals are applicable.  
 Wash hands before breaks and after work.  
 Keep away from food, drink and animal feedingstuffs.  
 Contaminated work clothing should not be allowed out of the workplace.

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

##### Requirements for storage rooms and vessels

Store product closed and only in original packing.  
 Not to be stored in gangways or stair wells.  
 storage temperature: at room temperature

##### Advice on storage compatibility

Do not store together with: acid.

#### 7.3. Specific end use(s)

No information available.

### 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
1310-58-3	Potassium hydroxide	-	-		TWA (8 h)	WEL
		-	2		STEL (15 min)	WEL

#### 8.2. Exposure controls

##### Appropriate engineering controls

Provide adequate ventilation.  
 This can be achieved by local exhaust ventilation or general ventilation.  
 When exceeding the occupational exposure limit (OEL):  
 Use appropriate respiratory protection.  
 Applies only if maximum permissible exposure values are listed here.

##### Protective and hygiene measures

General hygiene measures for the handling of chemicals are applicable.  
 Wash hands before breaks and after work.  
 Keep away from food, drink and animal feedingstuffs.  
 Contaminated work clothing should not be allowed out of the workplace.

##### Eye/face protection

Tightly sealed safety glasses. (EN 166)  
 If necessary Wear face protection. (EN 166)

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**ATTILA DER KRUSTENBRECHER**

Revision date: 26.03.2018

Product code: 70705\_CLP

Page 5 of 11

**Hand protection**

Suitable gloves type: CR (polychloroprenes, Chloroprene rubber), Permeation time (penetration time) in minutes: 240

Protective gloves of nitrile (EN 374), Permeation time (penetration time) in minutes: 480

Manufacturer: KCL GmbH, D-36124 Eichenzell, e-mail [vertrieb@kcl.de](mailto:vertrieb@kcl.de)

Specification No.: 717 NitroPen, 730 Camatril Velours

Hand lotion are recommended.

No tests have been carried out.

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**

Protective working garments (e.g. safety shoes EN ISO 20345, long-sleeved protective working garments)

**Respiratory protection**

With correct and proper use, and under normal conditions, breathing protection is not required.

When exceeding the occupational exposure limit (OEL): A P filter (EN 14387)

Observe the wear time limits according GefStoffV in combination with the rules for using respiratory protection apparatus (BGR 190).

**Environmental exposure controls**

No information available.

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

Physical state:	liquid	
Colour:	light yellow	
Odour:	characteristic	
pH-Value:		13,5

**Changes in the physical state**

Melting point:	not determined
Initial boiling point and boiling range:	~100 °C
Flash point:	not determined

**Flammability**

Solid:	not determined
Gas:	not determined

**Explosive properties**

not determined

Lower explosion limits:	not determined
Upper explosion limits:	not determined
Ignition temperature:	not determined

**Auto-ignition temperature**

Solid:	not determined
Gas:	not determined

**Oxidizing properties**

not determined

Vapour pressure:	not determined
Vapour pressure:	not determined
Density:	not determined
Bulk density:	not determined

# Safety Data Sheet

according to Regulation (EC) No 1907/2006

**ATTILA DER KRUSTENBRECHER**

Revision date: 26.03.2018

Product code: 70705\_CLP

Page 6 of 11

Water solubility: easily soluble.

**Solubility in other solvents**

not determined

Partition coefficient: not determined

Viscosity / dynamic: not determined

Viscosity / kinematic: not determined

Vapour density: not determined

Solvent content: not determined

**9.2. Other information**

Mixability: not determined

Fat solubility (g/l): not determined

Conductivity: not determined

Surface tension: not determined

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

See also Subsection 10.2 to 10.6.

The product has not been tested.

**10.2. Chemical stability**

See also Subsection 10.1 to 10.6.

Stable with proper storage and handling.

**10.3. Possibility of hazardous reactions**

See also Subsection 10.1 to 10.6.

No decomposition when used as directed.

**10.4. Conditions to avoid**

See also section 7.

**10.5. Incompatible materials**

See also section 7.

Avoid contact with strong acids.

Avoid contact with strong oxidants

**10.6. Hazardous decomposition products**

See also Subsection 10.1 to 10.5.

Also refer to section 5.3.

No decomposition when used as directed.

**SECTION 11: Toxicological information****11.1. Information on toxicological effects****Toxicokinetics, metabolism and distribution**

Possibly more information on health effects, see Section 2.1 (classification).

**Acute toxicity**

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

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**ATTILA DER KRUSTENBRECHER**

Revision date: 26.03.2018

Product code: 70705\_CLP

Page 7 of 11

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
112-34-5	2-(2-Butoxyethoxy)ethanol				
	oral	LD50 mg/kg	5660	Rat	
	dermal	LD50 mg/kg	4120	Rabbit	
124-68-5	2-amino-2-methylpropanol				
	oral	LD50 mg/kg	2900	Ratte	IUCLID
	dermal	LD50 mg/kg	> 2000	Kaninchen	IUCLID
1310-58-3	caustic potash, potassium hydroxide				
	oral	LD50 mg/kg	273	Ratte	RTECS
11138-66-2	Xanthan Gum				
	oral	LD50 mg/kg	>5000	Rat	

**Irritation and corrosivity**

Causes severe skin burns and eye damage.

**Sensitising effects**

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

**Carcinogenic/mutagenic/toxic effects for reproduction**

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**

See section 2.1 (rating) for potentially additional information concerning environmental effects.

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### ATTILA DER KRUSTENBRECHER

Revision date: 26.03.2018

Product code: 70705\_CLP

Page 8 of 11

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h]   [d]	Species	Source	Method
112-34-5	2-(2-Butoxyethoxy)ethanol					
	Acute algae toxicity	ErC50 mg/l	> 100		Scenedesmus sp.	
	Acute crustacea toxicity	EC50 mg/l	> 100	48 h	Daphnia magna	
124-68-5	2-amino-2-methylpropanol					
	Acute fish toxicity	LC50	190 mg/l	96 h	Lepomis macrochirus	IUCLID
	Acute algae toxicity	ErC50	520 mg/l	72 h	Desmodesmus subspicatus	
1310-58-3	caustic potash, potassium hydroxide					
	Acute fish toxicity	LC50	80 mg/l	96 h	Gambusia affinis	IUCLID
11138-66-2	Xanthan Gum					
	Acute fish toxicity	LC50	490 mg/l	96 h	Oncorhynchus mykiss (Rainbow trout)	
	Acute crustacea toxicity	EC50	980 mg/l	48 h	Daphnia magna	

#### **12.2. Persistence and degradability**

The surfactant contained in this mixture complies 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.

#### **12.3. Bioaccumulative potential**

No data available

#### **Partition coefficient n-octanol/water**

CAS No	Chemical name	Log Pow
112-34-5	2-(2-Butoxyethoxy)ethanol	0,56 (25°C)
124-68-5	2-amino-2-methylpropanol	-0,74

#### **12.4. Mobility in soil**

No data available

#### **12.5. Results of PBT and vPvB assessment**

No data available

#### **12.6. Other adverse effects**

No data available

### SECTION 13: Disposal considerations

#### **13.1. Waste treatment methods**

##### **Advice on disposal**

Dispose of waste according to applicable legislation.

For example: designated incinerator

E.g. dispose at suitable refuse site.

##### **Waste disposal number of waste from 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

##### **Waste disposal number of used product**



## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### ATTILA DER KRUSTENBRECHER

Revision date: 26.03.2018

Product code: 70705\_CLP

Page 9 of 11

200129 MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS; separately collected fractions (except 15 01); detergents containing hazardous substances; hazardous waste

#### Waste disposal number of 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

Dispose of waste according to applicable legislation.

Completely empty containers

Non-contaminated packages must be recycled or disposed of.

Handle contaminated packages in the same way as the substance itself.

### SECTION 14: Transport information

#### Land transport (ADR/RID)

**14.1. UN number:** UN1719

**14.2. UN proper shipping name:** CAUSTIC ALKALI LIQUID, N.O.S.  
(Disodium Trioxosilicate, caustic potash, potassium hydroxide)

**14.3. Transport hazard class(es):** 8

**14.4. Packing group:** III

Hazard label: 8

Classification code: C5

Special Provisions: 274

Limited quantity: 5 L

Transport category: 3

Hazard No: 80

Tunnel restriction code: E

#### Other applicable information (land transport)

Excepted Quantities: E2

Excepted Quantities: E1

#### Inland waterways transport (ADN)

**14.1. UN number:** UN1719

**14.2. UN proper shipping name:** CAUSTIC ALKALI LIQUID, N.O.S.  
(Disodium Trioxosilicate, caustic potash, potassium hydroxide)

**14.3. Transport hazard class(es):** 8

**14.4. Packing group:** III

Hazard label: 8

Classification code: C5

Special Provisions: 274

Limited quantity: 5 L

#### Other applicable information (inland waterways transport)

Excepted Quantities: E1

#### Marine transport (IMDG)

**14.1. UN number:** UN1719

**14.2. UN proper shipping name:** CAUSTIC ALKALI LIQUID, N.O.S.  
(Disodium Trioxosilicate, caustic potash, potassium hydroxide)

**14.3. Transport hazard class(es):** 8

**14.4. Packing group:** III

Hazard label: 8

Special Provisions: 223, 274

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### ATTILA DER KRUSTENBRECHER

Revision date: 26.03.2018

Product code: 70705\_CLP

Page 10 of 11

Limited quantity: 5 L  
EmS: F-A, S-B

#### Other applicable information (marine transport)

Excepted Quantities: E1

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

**14.1. UN number:** UN1719  
**14.2. UN proper shipping name:** CAUSTIC ALKALI LIQUID, N.O.S.  
 (Disodium Trioxosilicate, caustic potash, potassium hydroxide)  
**14.3. Transport hazard class(es):** 8  
**14.4. Packing group:** III  
 Hazard label: 8  
 Special Provisions: A3  
 Limited quantity Passenger: 1 L  
 IATA-packing instructions - Passenger: 852  
 IATA-max. quantity - Passenger: 5 L  
 IATA-packing instructions - Cargo: 856  
 IATA-max. quantity - Cargo: 60 L

#### Other applicable information (air transport)

Excepted Quantities: E1  
 Passenger-LQ: Y841

#### 14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

#### 14.6. Special precautions for user

Persons responsible for the transport of dangerous goods must be trained.  
 Security provisions must be observed by all persons involved.  
 Precautions must be taken to avoid injury

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

Not applicable, as freight is carried as general cargo, not in bulk.

#### Other applicable information

Hazard number and packing code are available on request.

## 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: 2-(2-Butoxyethoxy)ethanol

2004/42/EC (VOC): 3,7 %

#### Additional information

For classification and labelling, see section 2.  
 Observe Chemical Ordinance, ChemO  
 Observe Chemical Risk Reduction Ordinance, ORRChem  
 Observe Air Quality Control regulation

#### National regulatory information

Employment restrictions: Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).  
 Water contaminating class (D): 1 - slightly water contaminating

## SECTION 16: Other information

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**ATTILA DER KRUSTENBRECHER**

Revision date: 26.03.2018

Product code: 70705\_CLP

Page 11 of 11

**Changes**

Revised sections: 1, 16

**Abbreviations and acronyms**

vPvB = very persistent very bioaccumulative

PBT = persistent bioaccumulative toxic

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

Classification	Classification procedure
Skin Corr. 1A; H314	On basis of test data
Eye Dam. 1; H318	On basis of test data

**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.
H319	Causes serious eye irritation.
H412	Harmful to aquatic life with long lasting effects.

**Further Information**

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.

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