Safety Data Sheet
according to Regulation (EC) No 1907/2006

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

1.1 Product identifier
Wretex A67

1.2 Relevant identified uses of the substance or mixture and uses advised against Use of the substance/mixture
Cleaning agent. Intense cleaner. Alkaline, demulsifying, concentrate. Restricted to professional users.

1.3 Details of the supplier of the safety data sheet

Company name:	Wrede Technologies GmbH
Street:	Leunastrasse 67 a
City:	22761 Hamburg, Germany
Telephone:	+49 40 881 6745-22
e-mail:	info@wretec.com
Internet:	www.wretec.com

1.4 Emergency telephone number
24-hours-emergency: +49 - 551 19240 (German, English)

2 Hazards Identification

2.1 Classification of the substance or mixture
Regulation (EC) No. 1272/2008

Hazard categories:

Skin corrosion/irritation: Skin Corr. 1 B

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

Sodium hydroxide; caustic soda

Phosphoric acid ester, sodium-salt

Signal word Danger

Pictograms

Hazard statements

H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.

Precautionary statements

P260	Do not breathe dust/fume/gas/mist/vapors/spray.
P264+P265	Wash hands and equipment thoroughly after handling. Do not touch eyes.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P302+P361+P354	IF ON SKIN: Take off Immediately all contaminated clothing. Immediately rinse with water for several minutes.
P337+P317	If skin irritation or rash occurs: Get medical help.
P305+P354+P338	IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Get emergency medical help.

3 Composition/information on ingredients

3.1 Substances

Not applicable

3.2 Mixtures

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification according to Regulation (EC) No. 1272/2008 [CLP]			
7732-18-5	**Water**			**70-80 %**
	213-791-2			
527-07-1	**Sodium gluconate**			**<5,0 %**
	208-407-7		*1	
1310-73-2	**Sodium hydroxide; caustic soda**			**<5,0 %**
	215-185-5	011-002-00-6	01-2119457892-27	
	Skin Corr. 1A; H314			
100085-64-1	**Cocobetainamido Amphopropionate**			**<5,0 %**
	309-206-8		*	
	Skin Irrit. 2, Eye Irrit. 2, Aquatic Acute 1; H315 H319 H400			
112-34-5	**2-(2-butoxyethoxy)ethanol, diethylene glycol monobutyl ether**			**<5,0 %**
	203-961-6		01-2119475104-4	
	Eye Irrit. 2; H319			
111798-26-6	**Phosphoric acid ester, sodium-salt**			**<2,0 %**
	601-122-2		*	
	Skin Irrit. 2, Eye Dam. 1; H315 H318			
51981-21-6	**N,N-bis(carboxylatomethyl)-L-glutamate, Sodium salt**			**<1,0 %**
	257-573-7		01-2119493601-38	

Hazardous components
Full text of Hand EUH statements: see section 16.

Further Information

*Polymer
*1 Exempted from registration (Annex IV listed)

4 First aid measures

4.1 Description of first aid measures

General information

Read carefully and follow all instructions.

If medical advice is needed, have product container, label, or this Safety data sheet at hand.

Take off immediately all contaminated clothing. Wash clothes prior to next use.

After inhalation

In case of inhalation of aerosols/spray mist/splash spots: Consult physician. Provide fresh air.

After contact with skin

After contact with skin, wash immediately with water and soap. In case of skin irritation, seek medical treatment.

After contact with eyes

Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Consult an opthalmologist.

After ingestion

Rinse mouth immediately and drink large quantities of water. Do not induce vomiting. Consult physician.

4.2 Most important symptoms and effects, both acute and delayed

No symptoms known up to now.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

5 Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media: Water. Foam. Atomized water.

Unsuitable extinguishing media: High power water jet.

5.2 Special hazards arising from the substance or mixture

Can be released in case of fire: Nitrogen oxides (NOx). Carbon dioxide (C02).

5.3 Advice for firefighters

Special protective equipment for fire-fighters: Use appropriate respiratory protection. In case of fire and/or explosion do not breathe fumes.

5.4 Additional information

Material is not combustible. Extinguishing materials should be selected according to the surrounding area.

6 Accidental release measures

6.1 Personal precautions, protective eguipment and emergency procedures

Keep away from unprotected people and children. Keep upwind. Wear respiratory protection when in the presence of vapour, dust, and aerosols. Guide people to safety.

6.2 Environmental precautions

Do not empty into drains or the aquatic environment. Prevent spreading over great surfaces (e.g. by damming or installing oil booms).
Avoid spillage.

6.3 Methods and material for containment and cleaning up

Clean contaminated articles and floor according to the environmental legislation. Treat the assimilated material according to the section on waste disposal. Suitable absorbing material: Sand Universal binding agent. Earth. Sawdust.

6.4 Reference to other sections

See protective measures under point 7 and 8.

7 Handling and storage

7.1 Precautions for safe handling

Advice on safe handling

It is recommended to organise all working processes in order to exclude the following: Skin contact. Eye contact.

Advice on protection against fire and explosion

Product is not: Oxidizing. Flammable. Explosive.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Store only in original container.
Store locked up.
Keep away from food, drinks and animal feeding stuffs.
Keep out of reach of children.

7.3 Specific end use(s)

Cleaning of painted surfaces

8 Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

CAS No	Substance	ppm	mg/m³	fib/cm³	Category	Origin
112-34-5	2-(2-Butoxyethoxy)ethanol	10	67.5		TWA (8 h)	
		15	101.2		STEL (15 min)	
1310-73-2	Sodium hydroxide	-	-		TWA (8 h)	
		-	2		STEL (15 min)	

DNEL/DMEL values

CAS No	Substance			
DNEL type		Exposure route	Effect	Value
1310-73-2	Sodium hydroxide; caustic soda			
Worker DNEL, long-term		inhalation	local	1 mg/m³
Consumer DNEL, long-term		inhalation	local	1 mg/m³
112-34-5	2-(2-butoxyethoxy)ethanol, diethylene glycol monobutyl ether			
Consumer DNEL, long-term		oral	systemic	1,25 mg/kg bw/day
Worker DNEL, long-term		dermal	systemic	20 mg/kg bw/day

8.2 Exposure controls

Appropriate engineering controls

Refer to chapter 7. No further action is necessary.

Protective and hygiene measures

Do not eat, drink, smoke or sneeze at the workplace.
Take off immediately all contaminated clothing.
Wash hands before breaks and at the end of work.

Eye/face protection

Wear eye/face protection.

Hand protection

Suitable material: PE (polyethylene). CR (polychloroprenes, Chloroprene rubber). NBR (Nitrile rubber). Butyl rubber. FKM (Fluoroelastomer (Viton)).
penetration time (maximum wearing period): >480 min. Breakthrough times and swelling characteristics of the material must be taken into consideration.
Recommended protective gloves brand: Camapren 722, Manufacturer: KCL, or comparable makes from other companies.

Skin protection

Lab apron.

Respiratory protection

Respiratory protection not required.

9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state:	liquid
Colour:	clear yellow
Odour:	characteristic
Density (at 20 °C):	1,09 g/cm³ DIN 12791
Water solubility (at 20 °C):	completely miscible
pH-Value (at 20 °C):	13,5 (conc.) 11,9 (1 %); Test method: DGF H-III 1

Changes in the physical state

Melting point:	-9 °C
Initial boiling point and boiling range:	100 °C
Flash point:	---

Explosive properties

not Explosive.

Oxidizing properties

not oxidizing.

9.2 Other Information

May increase aluminium corrosion

10 Stability and reactivity

10.1 Reactivity

Exothermic reactions with acid, concentrated.

10.2 Chemical stability

The product is chemically stable under normal ambient conditions.

10.3 Possibility of hazardous reactions

None, in case of proper use.

10.4 Conditions to avoid

Thermal decomposition can lead to the escape of irritating gases and vapors.

10.5 Incompatible materials

acid, concentrated. Reducing agents.

10.6 Hazardous decomposition products

None, in case of proper use.

Further information

Do not mix with other products.

11 Toxicological information

11.1 Information on toxicological effects

Acute toxicity

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

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
1310-73-2	Sodium hydroxide; caustic soda				
	oral	LD50 2000 mg/kg	Rat		
100085-64-1	Cocobetainamido Amphopropionate				
	oral	LD50 >2000 mg/kg	Rat	OECD 401	
	dermal	LD50 >2000 mg/kg	Rat	OECD 402	
112-34-5	2-(2-butoxyethoxy)ethanol, diethylene glycol monobutyl ether				
	oral	LD50 3305 mg/kg	Rat		
	dermal	LD50 2764 mg/kg	Rabbit		
111798-26-6	Phosphoric acid ester, sodium-salt				
	oral	LD50 >2000 mg/kg	Rat		
51981-21-6	N,N-bis(carboxylatomethyl)-L-glutamate, Sodium salt				
	oral	LD50 >2000 mg/kg		EC B.1	
	dermal	LD50 >2000 mg/kg		OECD 402	
	inhalative (4 h) vapour	LC50 4,2 mg/l		OECD 403	

Irritation and corrosivity

Causes severe skin burns and eye damage.
Irritant effect on the skin: corrosive. Irritant effect on the eye: corrosive.

Sensitising effects

Based on available data, the classification
criteria are not met.
No danger of sensitization.

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.

11.2 Information on other hazards

No data avaible

12 Ecological information

12.1 Toxicity

Technically correct releases of minimal concentrations to adapted biological sewage treatment facility, will not disturb the biodegradability of activated sludge. due to the alkaline character of the product, usually, it has to be neutralized before contaminated effluents are introduced into the wastewater treatment system.

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h] | [d]	Species	Source	Method
1310-73-2	Sodium hydroxide; caustic soda					
	Acute fish toxicity	LC50 125	96 h	Gambusia affinis	SDB supplier	
	Acute crustacea toxicity	EC50 40,4 mg/l	48 h	Ceriodaphnia	ECHA	
100085-64-1	Cocobetainamido Amphopropionate					
	Acute fish toxicity	LC50 15 mg/l	96 h	Rainbow trout	OECD 203	
	Acute algae toxicity	ErC50 0,15 mg/l	72 h	Selenastrum capricornutum	OECD 201	
	Acute crustacea	EC50 4,4 mg/l	48 h	Daphnia magna	OECD 202	
	Acute bacteria toxicity	(>100 mg/l)		Activated sludge	OECD 209	
111798-26-6	Phosphoric acid ester, sodium-salt					
	Acute fish toxicity	LC50 >10	96 h			
	Acute crustacea toxicity	EC50 >100 mg/l	48 h	Daphnia magna		
51981-21-6	N,N-bis(carboxylatomethyl)-L-glutamate, Sodium salt					
	Acute fish toxicity	LC50 >100 mg/l	96 h	Oncorhynchus mykiss	OECD 203	
	Acute algae toxicity	ErC50 >100 mg/l	72 h	Desmodesmus subspicatus	OECD 201	
	Acute crustacea toxicity	EC50 >100 mg/l	48 h	Daphnien	OECD 202	
	Acute bacteria toxicity	--- g O2/g (--- mg/l)			OECD 209	

12.2 Persistence and degradability

The surfactants contained in this preparation 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.

CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
100085-64-1	Cocobetainamido Amphopropionate			
	OECD 301A	>70 %	28	
	easily biodegradable			

12.3 Bioaccumulative potential

Based on existing data about disposal/decomposition and bio-accumulation potential, long term environmental damage is unlikely.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
51981-21-6	N,N-bis(carboxylatomethyl)-L-glutamate, Sodium salt	<0

BCF

CAS No	Chemical name	BCF	Species	Source
112-34-5	2-(2-butoxyethoxy)ethanol, diethylene glycol monobutyl	<100		

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

not applicable

12.6 Endocrine disrupting properties

None (see 2.3)

12.7 Other adverse effects

No data available

13 Disposal considerations

13.1 Waste treatment methods

Advice on disposal

According to EAKV, allocation of waste identity numbers/waste descriptions must be carried out in a specific way for every industry and process.

Waste disposal number of waste from residues/unused products

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 used products

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

Contaminated packaging

Completely emptied and rinsed containers can be re-cycled.

14 Transport information

Land transport (ADR/RID)

14.1.	**UN number:**	UN1824
14.2.	**UN proper shipping name:**	SODIUM HYDROXIDE SOLUTION
14.3.	**Transport hazard class(es):**	8
14.4.	**Packing group:**	III
	Hazard label:	8
	Special Provisions:	A3 A803
	Classification code:	C5
	Limited quantity:	5 L
	Transport category:	3
	Hazard No:	80
	Tunnel restriction code:	E

Marine transport (IMDG)

14.1.	**UN number:**	UN1824
14.2.	**UN proper shipping name:**	SODIUM HYDROXIDE SOLUTION
14.3.	**Transport hazard class(es):**	8
14.4.	**Packing group:**	III
	Hazard label:	8
	Marine pollutant:	no
	Special Provisions:	223
	Limited quantity:	5 L
	EmS:	F-A, S-B

Other applicable information (marine transport): Excepted Quantity: E1

Air transport (ICAO-TI/IATA-DGR)

14.1.	**UN number:**	UN1824
14.2.	**UN proper shipping name:**	SODIUM HYDROXIDE SOLUTION
14.3.	**Transport hazard class(es):**	8
14.4.	**Packing group:**	III
	Hazard label:	8
	Special Provisions:	A3 A803
	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 Quantity: E1
Passenger-LQ: Y841

14.1 Environmental hazards

Transport of the mixture in tankers on inland waterways not foreseen.

14.2 Special precautions for user

No special precautions needed

14.3 Maritime transport in bulk according to IMO instruments

Not applicable – no transport in bulk is forseen

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, diethylene glycol monobutyl ether

2004/42/EC (VOC):	8,5 % (92,65 g/l)

National regulatory information

Water contaminating class (D):	1 - slightly water contaminating

15.2 Chemical safety assessment

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

16 Other information

Changes: -
Data changed from previous versions: 1.2, 2.2, 4.1, 6.1, 7.2, 12.3, 16

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

Classification	Classification procedure
Skin Corr. 1B; H314	Calculation method
Eye Dam. 1; H318	Calculation method

Relevant H and EUH statements (number and full text)

H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H400	Very toxic to aquatic life.

Further Information

Training instructions: Notice the directions for use on the label.

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

Identified uses

No	Short title	LCS	SU	PC	PROC	ERC	AC	TF	Specification
1	WRETEX A67	IS, PW	0	35	8a, 9, 13	8a	0	26	

LCS: Life cycle stages
SU: Sectors of use
PC: Product categories
PROC: Process categories
ERC: Environmental release categories
AC: Article categories
TF: Technical functions

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