



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

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SDS No. : 48290
V002.1

BONDERITE C-AK 5520

Revision: 25.05.2015
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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

BONDERITE C-AK 5520

Contains:

Silicic acid, sodium salt $\leq 1,6$, solution

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

Intended use:

Alkaline Cleaner for Industrial Application

1.3. Details of the supplier of the safety data sheet

Henkel & Cie. AG

Adhesive Technologies

Salinenstrasse 61

4133 Pratteln

Switzerland

Phone: +41 (61) 825 7000

Fax-no.: +41 (61) 825 7303

ua-productsafety.uk@uk.henkel.com

1.4. Emergency telephone number

24 Hours Emergency Tel: +44 (0)1442 278497

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (CLP):

Skin corrosion

H314 Causes severe skin burns and eye damage.

Category 1A

2.2. Label elements

Label elements (CLP):

Hazard pictogram:



Signal word:

Danger

Hazard statement:	H314 Causes severe skin burns and eye damage.
Precautionary statement:	P260 Do not breathe mist/spray.
Prevention	P280 Wear protective gloves/protective clothing/eye protection/face protection.
Precautionary statement:	P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.
Response	P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to remove. Continue rinsing.
	P310 Immediately call a POISON CENTER or doctor.

2.3. Other hazards

None if used properly.

The classification as corrosive R35/H314 1A is due to the extreme pH.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Declaration of the ingredients according to CLP (EC) No 1272/2008:

Hazardous components CAS-No.	EC Number REACH-Reg No.	content	Classification
Fatty alcohol, C12-18, ethoxylate BU ether 146340-16-1		0,25- < 2,5 %	Skin Irrit. 2 H315 Aquatic Acute 1 H400 Aquatic Chronic 3 H412
Coco amine ethoxylate 61791-14-8	500-152-2	1- < 5 %	Acute Tox. 4; Oral H302 Eye Irrit. 2 H319
Silicic acid, sodium salt <=1,6, solution 1344-09-8	215-687-4	20- 40 %	Skin Corr. 1B H314

For full text of the H - statements and other abbreviations see section 16 "Other information".
Substances without classification may have community workplace exposure limits available.

Declaration of ingredients according to Detergent Regulation 648/2004/EC

< 5 % non-ionic surfactants

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation:

Fresh air, oxygen supply, warmth; seek specialist medical attention.

Skin contact:

Rinse with running water and soap. Apply replenishing cream. Change all contaminated clothing.
Seek medical advice.

Eye contact:

Immediately flush eyes with soft jet of water or eye rinse solution for at least 15 minutes. Hold eyelid wide-open. Seek a doctor/hospital, eye flushing should continue during transportation to a doctor.

Ingestion:

Rinse out mouth, drink 1-2 glasses of water, do not induce vomiting.
Immediate medical treatment necessary.

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

Causes burns.

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

See section: Description of first aid measures

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

All common extinguishing agents are suitable.

Extinguishing media which must not be used for safety reasons:

None known

5.2. Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in fires.

5.3. Advice for firefighters

Wear self-contained breathing apparatus.

Wear protective equipment.

Additional information:

Cool endangered containers with water spray jet.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid contact with skin and eyes.

Wear protective equipment.

6.2. Environmental precautions

Do not empty into drains / surface water / ground water.

6.3. Methods and material for containment and cleaning up

Remove with liquid-absorbing material (sand, peat, sawdust).

Dispose of contaminated material as waste according to Section 13.

6.4. Reference to other sections

See advice in section 8

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid skin and eye contact.

When diluting, always stir slowly the product into standing water.

See advice in section 8

Hygiene measures:

Keep away from food, beverages and animal feed.

Do not eat, drink or smoke while working.

Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Store frost-free.

Keep container tightly sealed.

Do not store together with strong acids.

7.3. Specific end use(s)

Alkaline Cleaner for Industrial Application

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

Valid for
Great Britain

None

Biological Exposure Indices:

None

8.2. Exposure controls:

Engineering controls:
Ensure good ventilation/suction at the workplace.
Avoid generation and inhalation of aerosols.

Respiratory protection:

In case of aerosol formation, we recommend wearing of appropriate respiratory protection equipment with ABEK P2 filter.
This recommendation should be matched to local conditions.

Hand protection:

Chemical-resistant protective gloves (EN 374). Suitable materials for short-term contact or splashes (recommended: at least protection index 2, corresponding to > 30 minutes permeation time as per EN 374): Polychloroprene (CR; ≥ 1 mm thickness) or natural rubber (NR; ≥ 1 mm thickness) Suitable materials for longer, direct contact (recommended: protection index 6, corresponding to > 480 minutes permeation time as per EN 374): Polychloroprene (CR; ≥ 1 mm thickness) or natural rubber (NR; ≥ 1 mm thickness) This information is based on literature references and on information provided by glove manufacturers, or is derived by analogy with similar substances. Please note that in practice the working life of chemical-resistant protective gloves may be considerably shorter than the permeation time determined in accordance with EN 374 as a result of the many influencing factors (e.g. temperature). If signs of wear and tear are noticed then the gloves should be replaced.

Eye protection:

Goggles which can be tightly sealed.
The workplace should be equipped with an emergency shower and eye-rinsing facility.

Skin protection:

Protective clothing that covers arms and legs.

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

Appearance	liquid clear slightly yellowish
Odor	no valuation
Odour threshold	No data available / Not applicable
pH (20 °C (68 °F); Conc.: 1 % product; Solvent: Demineralised water)	12,3 - 12,9
Initial boiling point	> 100 °C (> 212 °F)
Flash point	No flash point up to 100°C. Aqueous preparation.
Decomposition temperature	No data available / Not applicable
Vapour pressure	(aqueous solution)
Density (20 °C (68 °F))	1,2700 - 1,3300 g/cm ³
Bulk density	No data available / Not applicable
Viscosity	No data available / Not applicable
Viscosity (kinematic)	No data available / Not applicable
Explosive properties	No data available / Not applicable

Solubility (qualitative) (20 °C (68 °F); Solvent: Water)	fully miscible
Solidification temperature	No data available / Not applicable
Melting point	No data available / Not applicable
Flammability	No data available / Not applicable
Auto-ignition temperature	No data available / Not applicable
Explosive limits	No data available / Not applicable
Partition coefficient: n-octanol/water	No data available / Not applicable
Evaporation rate	No data available / Not applicable
Vapor density	No data available / Not applicable
Oxidising properties	No data available / Not applicable

9.2. Other information

No data available / Not applicable

SECTION 10: Stability and reactivity

10.1. Reactivity

Reacts with acids: Heat released.

10.2. Chemical stability

Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

See section reactivity

10.4. Conditions to avoid

No decomposition if used according to specifications.

10.5. Incompatible materials

See section reactivity

10.6. Hazardous decomposition products

None if used for intended purpose.

In case of fire toxic gases can be released.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

General toxicological information:

The mixture is classified based on the available hazard information for the ingredients as defined in the classification criteria for mixtures for each hazard class or differentiation in Annex I to Regulation 1272/2008/EC. Relevant available health/ecological information for the substances listed under Section 3 is provided in the following.

The classification as corrosive R35/H314 1A is due to the extreme pH.

Skin irritation:

Causes severe skin burns and eye damage.

Acute oral toxicity:

Hazardous components CAS-No.	Value type	Value	Route of application	Exposure time	Species	Method
Coco amine ethoxylate 61791-14-8	LD50	1.000 mg/kg	oral		rat	OECD Guideline 401 (Acute Oral Toxicity)

Skin corrosion/irritation:

Hazardous components CAS-No.	Result	Exposure time	Species	Method
Coco amine ethoxylate 61791-14-8	not irritating	2 h	rabbit	
Silicic acid, sodium salt <=1,6, solution 1344-09-8	corrosive	4 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

SECTION 12: Ecological information**General ecological information:**

Locally harmful for aquatic and landliving organisms because of high pH and corrosive properties.

The mixture is classified based on the available hazard information for the ingredients as defined in the classification criteria for mixtures for each hazard class or differentiation in Annex I to Regulation 1272/2008/EC. Relevant available health/ecological information for the substances listed under Section 3 is provided in the following.

Other adverse effects:

If acidic or alkaline products are discharged into wastewater installations care must be taken that the discharged wastewater has a pH in the range pH 6 - 10, as pH variations could cause disorders in wastewater channels and biological sewage treatment plants. The local discharge regulations take precedence.

12.1. Toxicity**Ecotoxicity:**

Do not empty into drains / surface water / ground water.

Hazardous components CAS-No.	Value type	Value	Acute Toxicity Study	Exposure time	Species	Method
Fatty alcohol, C12-18, ethoxylate BU ether 146340-16-1	LC50	> 0,1 - 1 mg/l	Fish	96 h	Brachydanio rerio (new name: Danio rerio)	ISO 7346-1 (Determination of the Acute Lethal Toxicity of Substances to a Freshwater Fish [Brachydanio rerio Hamilton- Buchanan (Teleostei, Cyprinidae)] OECD 211 (Daphnia magna, Reproduction Test) DIN 38412-15
Fatty alcohol, C12-18, ethoxylate BU ether 146340-16-1	NOEC	> 0,1 - 1 mg/l	chronic Daphnia	21 d	Daphnia magna	
Coco amine ethoxylate 61791-14-8	LC50	6,4 mg/l	Fish	48 h	Leuciscus idus	
Coco amine ethoxylate 61791-14-8	EC50	27 mg/l	Daphnia	24 h	Daphnia magna	

12.2. Persistence and degradability**Persistence and degradability:****Degradation of surfactants**

The biodegradability of the surfactants contained in the product is in accordance with the requirements of the EU Detergent Regulation (EC/648/2004).

The surfactants contained in the products are primary biodegradable to at least 90% on average.

Hazardous components CAS-No.	Result	Route of application	Degradability	Method
Coco amine ethoxylate 61791-14-8	readily biodegradable	no data	> 60 %	OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)

12.3. Bioaccumulative potential / 12.4. Mobility in soil

Hazardous components CAS-No.	LogKow	Bioconcentration factor (BCF)	Exposure time	Species	Temperature	Method
Coco amine ethoxylate 61791-14-8	1,24					OECD Guideline 107 (Partition Coefficient (n- octanol / water), Shake Flask Method)

12.5. Results of PBT and vPvB assessment

Hazardous components CAS-No.	PBT/vPvB
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Fatty alcohol, C12-18, ethoxylate BU ether 146340-16-1	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.
Coco amine ethoxylate 61791-14-8	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.

12.6. Other adverse effects

No data available.

SECTION 13: Disposal considerations**13.1. Waste treatment methods**

Product disposal:

In consultation with the responsible local authority, must be subjected to special treatment.

Recommended cleaning agents

Clean the packaging with water.

Waste code

The valid EWC waste code numbers are source-related. The manufacturer is therefore unable to specify EWC waste codes for the articles or products used in the various sectors. The EWC codes listed are intended as a recommendation for users. We will be happy to advise you.

EWC/EAK 070608

SECTION 14: Transport information**14.1. UN number**

ADR	1719
RID	1719
ADN	1719
IMDG	1719
IATA	1719

14.2. UN proper shipping name

ADR	CAUSTIC ALKALI LIQUID, N.O.S. (Sodium silicate)
RID	CAUSTIC ALKALI LIQUID, N.O.S. (Sodium silicate)
ADN	CAUSTIC ALKALI LIQUID, N.O.S. (Sodium silicate)
IMDG	CAUSTIC ALKALI LIQUID, N.O.S. (Sodium silicate)
IATA	Caustic alkali liquid, n.o.s. (Sodium silicate)

14.3. Transport hazard class(es)

ADR	8
RID	8
ADN	8
IMDG	8
IATA	8

14.4. Packaging group

ADR	II
RID	II
ADN	II
IMDG	II
IATA	II

14.5. Environmental hazards

ADR	not applicable
RID	not applicable
ADN	not applicable
IMDG	not applicable
IATA	not applicable

14.6. Special precautions for user

ADR	not applicable Tunnelcode: (E)
RID	not applicable
ADN	not applicable
IMDG	not applicable
IATA	not applicable

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

not applicable

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**VOC content 0 %
(1999/13/EC)**15.2. Chemical safety assessment**

A chemical safety assessment has not been carried out.

National regulations/information (Great Britain):

Remarks

Control of Substances Hazardous to Health Regulations (COSHH), and related guidance, e.g COSHH Essentials.
EH40 Occupational Exposure Limits
Chemicals (Hazard Information & Packaging for Supply) Regulations.
The Personnel Protective Equipment at Work Regulations.
The Carriage of Dangerous Goods by Road Regulations.
The Health & Safety at Work Act 1974.
(Note: Use latest editions/amendments of above referenced documents.)

SECTION 16: Other information

The labelling of the product is indicated in Section 2. The full text of all abbreviations indicated by codes in this safety data sheet are as follows:

- H302 Harmful if swallowed.
- H314 Causes severe skin burns and eye damage.
- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H400 Very toxic to aquatic life.
- H412 Harmful to aquatic life with long lasting effects.

Further information:

This information is based on our current level of knowledge and relates to the product in the state in which it is delivered. It is intended to describe our products from the point of view of safety requirements and is not intended to guarantee any particular properties.

Label elements (DPD):

C - Corrosive



Risk phrases:

R35 Causes severe burns.

Safety phrases:

- S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
- S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Contains:

Silicic acid, sodium salt <=1,6, solution

Relevant changes in this safety data sheet are indicated by vertical lines at the left margin in the body of this document. Corresponding text is displayed in a different color on shadowed fields.