

SAFETY DATA SHEET

according to 1907/2006/EC, Article 1

Revision: 23.05.2015

Printing date: 19.06.2015

Version number 002.1

**SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE
AND OF THE COMPANY/UNDERTAKING****1.1. Product identifier**

Trade name BONDERITE C-MC 3000 known as P3-grato 3000
Index number SDS No. : 585498

Contains

Sodium hydroxide

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

Cleaners for Industrial Application

Details of the supplier of the safety data sheet**Manufacturer/Supplier:**

Henkel Belgium N.V.
Havenlaan 16
1080 Brussels
Belgium
Phone: +32 (2) 421 2711
Fax-no.: +32 (2) 420 7025
ua-productsafety.de@henkel.com

Emergency telephone number:

The Henkel information service also provides an around-the-clock telephone service
on phone no.+49-(0)211-797-3350 for exceptional cases.

SECTION 2: HAZARDS IDENTIFICATION**2.1 Classification of the substance or mixture****Classification (CLP):**

Skin corrosion

Category 1A

H314

Causes severe skin burns and eye damage.

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2.2 Label elements / 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.
Response	Rinse skin with water/ shower. 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**

Base substances of preparation:

- alkalis
- non-ionic surfactants
- complexing agent

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

Hazardous components CAS-No.	EC Number REACH-Reg No.	content	Classification
Alcohols, C12-14, ethoxylated, sulfates, sodium salts 68891-38-3	500-234-8 500-234-8 01-2119488639-16	5- 10 %	Skin Irrit. 2; Dermal H315 Eye Dam. 1 H318 Aquatic Chronic 3 H412
Sodium hydroxide 1310-73-2	215-185-5 01-2119457892-27	1- < 5 %	Met. Corr. 1 H290 Skin Corr. 1A H314
Alcohols C13, branched ethoxylated 69011-36-5	500-241-6	1- < 5 %	Eye Dam. 1 H318 Aquatic Chronic 3 H412

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 - 15 % anionic surfactants
< 5 % non-ionic surfactants
contains Perfumes

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

Inhalation:

Move to fresh air, consult doctor if complaint persists.

Skin contact:

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

Immediate medical treatment necessary.

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.

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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.

Additional information:

In case of fire, keep containers cool with water spray.

SECTION 6: ACCIDENTAL RELEASE MEASURES**6.1. Personal precautions, protective equipment and emergency procedures**

Avoid contact with skin and eyes.

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).

Wash away residue with plenty of water.

Dispose of contaminated material as waste according to Section 13.

6.4. Reference to other sections

See advice in section 8

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SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

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

Avoid skin and eye contact.

Ensure that workrooms are adequately ventilated.

See advice in section 8

Hygiene measures:

Wash hands before work breaks and after finishing work.

Do not eat, drink or smoke while working.

Wash contaminated clothing before reuse.

The workplace should be equipped with an emergency shower and eye-rinsing facility.

7.2. Conditions for safe storage, including any incompatibilities

Store in sealed original container.

Avoid strictly temperatures below + 5 °C and above + 50 °C.

7.3. Specific end use(s)

Cleaners for Industrial Application.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Occupational Exposure Limits

Valid for Germany

None

Predicted No-Effect Concentration (PNEC):

Name on list	Environmental Compartment	Exposure period	Value				Remarks
			mg/l	ppm	mg/kg	others	
Alcohols, C12-14, sulfates, sodium salt, 2EO 68891-38-3	aqua (freshwater)					0,24 mg/L	
Alcohols, C12-14, sulfates, sodium salt, 2EO 68891-38-3	aqua (marine water)					0,024 mg/L	
Alcohols, C12-14, sulfates, sodium salt, 2EO 68891-38-3	aqua (intermittent releases)					0,071 mg/L	
Alcohols, C12-14, sulfates, sodium salt, 2EO 68891-38-3	sediment (freshwater)				5,45 mg/kg		
Alcohols, C12-14, sulfates, sodium salt, 2EO 68891-38-3	soil				0,946 mg/kg		
Alcohols, C12-14, sulfates, sodium salt, 2EO 68891-38-3	sediment (marine water)				0,545 mg/kg		
Alcohols, C12-14, sulfates, sodium salt, 2EO 68891-38-3	STP					10000 mg/L	

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Derived No-Effect Level (DNEL):

Name on list	Application Area	Route of Exposure	Health Effect	Exposure Time	Value	Remarks
Alcohols, C12-14, sulfates, sodium salt, 2EO 68891-38-3	Workers	Dermal	Long term exposure - systemic effects		2750 mg/kg bw/day	
Alcohols, C12-14, sulfates, sodium salt, 2EO 68891-38-3	Workers	Inhalation	Long term exposure - systemic effects		175 mg/m3	
Alcohols, C12-14, sulfates, sodium salt, 2EO 68891-38-3	general population	Dermal	Long term exposure - systemic effects		1650 mg/kg bw/day	
Alcohols, C12-14, sulfates, sodium salt, 2EO 68891-38-3	general population	Inhalation	Long term exposure - systemic effects		52 mg/m3	
Alcohols, C12-14, sulfates, sodium salt, 2EO 68891-38-3	general population	oral	Long term exposure - systemic effects		15 mg/kg bw/day	
Sodium hydroxide 1310-73-2	Workers	Inhalation	Long term exposure - local effects		1 mg/m3	
Sodium hydroxide 1310-73-2	general population	Inhalation	Long term exposure - local effects		1 mg/m3	

Biological Exposure Indices:

None

8.2. Exposure controls

Engineering controls

Ensure good ventilation/extraction.

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.

Skin protection

Protective clothing that covers arms and legs.

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**9.1. Information on basic physical and chemical properties**

Appearance	liquid / clear / Colorless to yellow
Odor	Solvent
Odour threshold	No data available / Not applicable
pH (20 °C (68 °F); Conc.: 1 %; Solvent: De-ionized water)	11,4 - 12,2 12,8
pH (20 °C (68 °F); Conc.: 100 %)	
Initial boiling point	> 100 °C (> 212 °F)
Flash point	> 100 °C (> 212 °F); no method
Decomposition temperature	No data available / Not applicable
Vapour pressure	No data available / Not applicable
Density (20 °C (68 °F))	1,068 g/cm3
Bulk density	No data available / Not applicable
Viscosity	No data available / Not applicable
Viscosity (kinematic) (20 °C (68 °F);)	3,67 mm2/s
Explosive properties	No data available / Not applicable
Solubility (qualitative) (20 °C (68 °F); Solvent: Water)	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

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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
Sodium hydroxide 1310-73-2	LDLo	500 mg/kg	oral		rabbit	

Acute inhalative toxicity:

Hazardous components CAS-No.	Value type	Value	Route of application	Exposure time	Species	Method
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Acute dermal toxicity:

Hazardous components CAS-No.	Value type	Value	Route of application	Exposure time	Species	Method
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Skin corrosion/irritation:

Hazardous components CAS-No.	Result	Exposure time	Species	Method
Alcohols, C12-14, ethoxylated, sulfates, sodium salts 68891-38-3	irritating	4 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

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Serious eye damage/irritation:

Hazardous components CAS-No.	Result	Exposure time	Species	Method
Alcohols, C12-14, ethoxylated, sulfates, sodium salts 68891-38-3	highly irritating	24 h	rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
Sodium hydroxide 1310-73-2	corrosive		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)

Respiratory or skin sensitization:

Hazardous components CAS-No.	Result	Test type	Species	Method
Alcohols, C12-14, ethoxylated, sulfates, sodium salts 68891-38-3	not sensitising	Guinea pig maximisation test	guinea pig	OECD Guideline 406 (Skin Sensitisation)
Sodium hydroxide 1310-73-2	not sensitising	Patch-Test	human	

Germ cell mutagenicity:

Hazardous components CAS-No.	Result	Type of study / Route of administration	Metabolic activation / Exposure time	Species	Method
Alcohols, C12-14, ethoxylated, sulfates, sodium salts 68891-38-3	negative	oral: gavage		mouse	OECD Guideline 475 (Mammalian Bone Marrow Chromosome Aberration Test)
Sodium hydroxide 1310-73-2	negative	bacterial reverse mutation assay (e.g. Ames test)	no data		

Repeated dose toxicity

Hazardous components CAS-No.	Result	Route of application	Exposure time / Frequency of treatment	Species	Method
Alcohols, C12-14, ethoxylated, sulfates, sodium salts 68891-38-3	NOAEL=225 mg/kg	oral: gavage	90 days once daily, 5 times a week	rat	OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)

SECTION 12: ECOLOGICAL INFORMATION

General ecological 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.

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

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

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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

Hazardous components CAS-No.	Value type	Value	Acute Toxicity Study	Exposure time	Species	Method
Alcohols, C12-14, ethoxylated, sulfates, sodium salts 68891-38-3	LC50	7,9 mg/l	Fish	48 h	Leuciscus idus	DIN 38412-15
	NOEC	0,1 mg/l	Fish	28 d	Oncorhynchus mykiss	OECD Guideline 204 (Fish, Prolonged Toxicity Test: 14-day Study)
Alcohols, C12-14, ethoxylated, sulfates, sodium salts 68891-38-3	EC50	79 mg/l	Daphnia	24 h	Daphnia magna	
Alcohols, C12-14, ethoxylated, sulfates, sodium salts 68891-38-3	EC50	2,6 mg/l	Algae	96 h	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	DIN 38412-09
Alcohols, C12-14, ethoxylated, sulfates, sodium salts 68891-38-3	NOEC	0,72 mg/l	chronic Daphnia	21 d	Daphnia magna	
Sodium hydroxide 1310-73-2	LC50	189 mg/l	Fish	48 h	Leuciscus idus melanotus	OECD Guideline 203 (Fish, Acute Toxicity Test)
Sodium hydroxide 1310-73-2	EC50	> 100 mg/l	Daphnia		Daphnia sp.	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Alcohols C13, branched ethoxylated 69011-36-5	LC50	4,6 mg/l	Fish		Leuciscus idus	OECD Guideline 203 (Fish, Acute Toxicity Test)
	NOEC	> 0,1 - 1 mg/l	Fish	21 d		OECD 210 (fish early lite stage toxicity test)
Alcohols C13, branched ethoxylated 69011-36-5	EC50	2,4 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Alcohols C13, branched ethoxylated 69011-36-5	EC50	2,9 mg/l	Algae	48 h		OECD Guideline 201 (Alga, Growth Inhibition Test)

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12.2. 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
Alcohols, C12-14, ethoxylated, sulfates, sodium salts 68891-38-3	readily biodegradable	aerobic	77 - 79 %	EU Method C.4-E (Determination of the "Ready" Biodegradability Closed Bottle Test)
Alcohols C13, branched ethoxylated 69011-36-5	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
Alcohols, C12-14, ethoxylated, sulfates, sodium salts 68891-38-3	0,3				23 °C	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
Alcohols, C12-14, ethoxylated, sulfates, sodium salts 68891-38-3	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.
Sodium hydroxide 1310-73-2	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.
Alcohols C13, branched ethoxylated 69011-36-5	Not fulfilling PBT (persistent/bioaccumulative/toxic) criteria

12.6. Other adverse effects

No data available.

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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	1824
RID	1824
ADN	1824
IMDG	1824
IATA	1824

14.2. UN proper shipping name

ADR	SODIUM HYDROXIDE SOLUTION
RID	SODIUM HYDROXIDE SOLUTION
ADN	SODIUM HYDROXIDE SOLUTION
IMDG	SODIUM HYDROXIDE SOLUTION
IATA	Sodium hydroxide solution

14.3. Transport hazard class(es)

ADR	8
RID	8
ADN	8
IMDG	8
IATA	8

CP METAL CHEMICALS B.V.

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www.cp-metal.nl

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TRADEREGISTER KVK 24225479
VAT NL008191402B01

On all transport activities, the General Transportation Conditions for national transport of goods apply, as deposited by the registry of the district counties of Rotterdam and Amsterdam. All transports across borders are subject to the NIWO and CMR conditions. All shipping activities are subject to FENEX conditions. Insurance is never included with the freight. The NOB General Payment Conditions apply to payments of all our activities. The NOB General Payment Conditions can be found on our website.

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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 (Germany):**

WGK: **WGK = 2, water endangering product. Classification according to the mixture rules in German VwVwS regulation annex 4 from 27.July 2005.**

Storage class according to TRGS 510: **8B**

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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:

H290	May be corrosive to metals.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
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:

Sodium hydroxide

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.

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