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



SDS No. : 378483
V003.4
Revision: 23.05.2017
printing date: 14.03.2019
Replaces version from: 26.03.2014

BONDERITE C-MC X MAINTENANCE CLEANER known as P3-X

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

**1.1. Product identifier**
BONDERITE C-MC X MAINTENANCE CLEANER known as P3-X

**Contains:**
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts
Sodium silicate

**1.2. Relevant identified uses of the substance or mixture and uses advised against**
Intended use:
Cleaners for Industrial Application

**1.3. Details of the supplier of the safety data sheet**
Henkel Nederland
Brugwal 11
3431 NZ Nieuwegein

Netherlands

Phone: +31 (60) 73 911
Fax-no.: +31 (6047) 039

ua-productsafety.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 irritation — Category 2
H315 Causes skin irritation.
Serious eye damage — Category 1
H318 Causes serious eye damage.

**2.2. Label elements**

**Label elements (CLP):**

**Hazard pictogram:**

**Signal word:** Danger

| | |
|---|---|
| **Hazard statement:** | H315 Causes skin irritation.<br>H318 Causes serious eye damage. |
| **Precautionary statement: Prevention** | P280 Wear protective gloves/eye protection. |
| **Precautionary statement: Response** | P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.<br>P310 Immediately call a POISON CENTER or doctor. |

**2.3. Other hazards**
None if used properly.
Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.

## SECTION 3: Composition/information on ingredients

**3.2. Mixtures**

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

| Hazardous components<br>CAS-No. | EC Number<br>REACH-Reg No. | content | Classification |
|---|---|---|---|
| Sodium carbonate<br>497-19-8 | 207-838-8<br>01-2119485498-19 | 20- 40 % | Eye Irrit. 2<br>H319 |
| Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts<br>68411-30-3 | 270-115-0<br>01-2119489428-22 | 5- < 10 % | Acute Tox. 4; Oral<br>H302<br>Skin Irrit. 2<br>H315<br>Eye Dam. 1<br>H318<br>Aquatic Chronic 3<br>H412 |
| Sodium silicate<br>1344-09-8 | 215-687-4<br>01-2119448725-31 | 5- < 10 % | Skin Irrit. 2<br>H315<br>Eye Dam. 1<br>H318<br>STOT SE 3; Inhalation<br>H335 |
| Alcohols, C12-18, ethoxylated<br>68213-23-0 | 500-201-8 | 1- < 5 % | Acute Tox. 4<br>H302<br>Eye Dam. 1<br>H318<br>Aquatic Chronic 3<br>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<br>phosphonates<br>polycarboxylates |
| contains | Perfumes |
| Allergenic fragrance ingredients >=100 ppm: | Hexyl Cinnamal, Limonene, Butylphenyl Methylpropional |

## SECTION 4: First aid measures

**4.1. Description of first aid measures**

Inhalation:
Remove person from dust-contaminated zone, seek medical advice if necessary.

Skin contact:
IF ON SKIN: Wash with plenty of soap and water.
In case of adverse health effects seek medical advice.

Eye contact:
Immediately flush eyes with soft jet of water or eye rinse solution for at least 5 minutes. If pains remain (intensive smarting, sensitivity to light, visual disturbance) continue flushing and contact/seek doctor or hospital.

Ingestion:
Rinse mouth, drink 1-2 glasses of water, do not induce vomiting, consult a doctor.

**4.2. Most important symptoms and effects, both acute and delayed**
SKIN: Redness, inflammation.

After eye contact: Corrosive, may cause permanent damage to eyes (impairment of vision).

**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:**
Carbon dioxide, foam, powder
Water spray jet

**Extinguishing media which must not be used for safety reasons:**
High pressure waterjet

**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:**
The product itself does not burn. Any fire extinguishing action should be appropriate to the surroundings.

## SECTION 6: Accidental release measures

**6.1. Personal precautions, protective equipment and emergency procedures**
Avoid contact with skin and eyes.
Avoid dust formation.

**6.2. Environmental precautions**
Do not empty into drains / surface water / ground water.

**6.3. Methods and material for containment and cleaning up**
Remove mechanically.
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.
Avoid dust formation.
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.
Take off contaminated clothing and wash 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.

**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
Great Britain

| Ingredient [Regulated substance] | ppm | mg/m$^3$ | Value type | Short term exposure limit category / Remarks | Regulatory list |
|---|---|---|---|---|---|
| DUSTS, NON-SPECIFIC, RESPIRABLE FRACTION [DUST, INHALABLE DUST] | | 10 | Time Weighted Average (TWA): | | EH40 WEL |
| DUSTS, NON-SPECIFIC, RESPIRABLE FRACTION [DUST, RESPIRABLE DUST] | | 4 | Time Weighted Average (TWA): | | EH40 WEL |

**Occupational Exposure Limits**

Valid for
Ireland

| Ingredient [Regulated substance] | ppm | mg/m$^3$ | Value type | Short term exposure limit category / Remarks | Regulatory list |
|---|---|---|---|---|---|
| DUSTS, NON-SPECIFIC, RESPIRABLE FRACTION [DUSTS, NON-SPECIFIC, RESPIRABLE] | | 4 | Time Weighted Average (TWA): | | IR_OEL |
| DUSTS, NON-SPECIFIC, RESPIRABLE FRACTION [DUSTS, NON-SPECIFIC, TOTAL INHALABLE] | | 10 | Time Weighted Average (TWA): | | IR_OEL |

**Predicted No-Effect Concentration (PNEC):**

| Name on list | Environmental Compartment | Exposure period | Value | | | | Remarks |
|---|---|---|---|---|---|---|---|
| | | | mg/l | ppm | mg/kg | others | |
| Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts 68411-30-3 | aqua (freshwater) | | 0,268 mg/l | | | | |
| Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts 68411-30-3 | aqua (marine water) | | 0,0268 mg/l | | | | |
| Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts 68411-30-3 | aqua (intermittent releases) | | 0,0167 mg/l | | | | |
| Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts 68411-30-3 | sewage treatment plant (STP) | | 3,43 mg/l | | | | |
| Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts 68411-30-3 | sediment (freshwater) | | | | 8,1 mg/kg | | |
| Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts 68411-30-3 | sediment (marine water) | | | | 6,8 mg/kg | | |
| Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts 68411-30-3 | soil | | | | 35 mg/kg | | |

**Derived No-Effect Level (DNEL):**

| Name on list | Application Area | Route of Exposure | Health Effect | Exposure Time | Value | Remarks |
|---|---|---|---|---|---|---|
| Sodium carbonate 497-19-8 | Workers | inhalation | Long term exposure - local effects | | 10 mg/m3 | |
| Sodium carbonate 497-19-8 | General population | inhalation | Acute/short term exposure - local effects | | 10 mg/m3 | |
| Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts 68411-30-3 | Workers | inhalation | Long term exposure - systemic effects | | 6 mg/m3 | |
| Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts 68411-30-3 | Workers | inhalation | Long term exposure - local effects | | 6 mg/m3 | |
| Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts 68411-30-3 | Workers | dermal | Long term exposure - systemic effects | | 85 mg/kg | |
| Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts 68411-30-3 | General population | inhalation | Long term exposure - systemic effects | | 1,5 mg/m3 | |
| Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts 68411-30-3 | General population | inhalation | Long term exposure - local effects | | 1,5 mg/m3 | |
| Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts 68411-30-3 | General population | dermal | Long term exposure - systemic effects | | 42,5 mg/kg | |
| Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts 68411-30-3 | General population | oral | Long term exposure - systemic effects | | 0,425 mg/kg | |

**Biological Exposure Indices:**
None

**8.2. Exposure controls:**

Engineering controls:
Thorough dedusting.

Respiratory protection:
In case of dust formation, we recommend wearing of appropriate respiratory protection equipment with particle filter P (EN 14387).
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.
Protective eye equipment should conform to EN166.

Skin protection:
Suitable protective clothing
Protective clothing should conform to EN 14605 for liquid splashes or to EN 13982 for dusts.

Advices to personal protection equipment:

The information provided on personal protective equipment is for guidance purposes only. A full risk assessment should be conducted prior to using this product to determine the appropriate personal protective equipment to suit local conditions. Personal protective equipment should conform to the relevant EN standard.

## SECTION 9: Physical and chemical properties

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

| | |
|---|---|
| Appearance | powder<br>powder<br>white |
| Odor | perfumed |
| Odour threshold | No data available / Not applicable |
| pH<br>(20 °C (68 °F); Conc.: 10 g/l; Solvent: Demineralised water) | 9,5 - 10,5 |
| Melting point | No data available / Not applicable |
| Solidification temperature | No data available / Not applicable |
| Initial boiling point | No data available / Not applicable |
| Flash point | Not applicable |
| Evaporation rate | No data available / Not applicable |
| Flammability | No data available / Not applicable |
| Explosive limits | No data available / Not applicable |
| Vapour pressure | No data available / Not applicable |
| Relative vapour density: | No data available / Not applicable |
| Density | No data available / Not applicable |
| Bulk density | 480,0 - 560,0 g/ml |
| Solubility | No data available / Not applicable |
| Solubility (qualitative)<br>(20 °C (68 °F); Solvent: Water) | Soluble |
| Partition coefficient: n-octanol/water | No data available / Not applicable |
| Auto-ignition temperature | No data available / Not applicable |
| Decomposition temperature | 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 |
| Oxidising properties | No data available / Not applicable |

**9.2. Other information**

No data available / Not applicable

## SECTION 10: Stability and reactivity

**10.1. Reactivity**
Reaction with acids: production of heat and carbon dioxide.

**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 (EC) No 1272/2008. Relevant available health/ecological information for the substances listed under Section 3 is provided in the following.

**Skin irritation:**
Causes skin irritation.

**Eye irritation:**
Causes serious eye damage.

**Acute oral toxicity:**

| Hazardous components<br>CAS-No. | Value type | Value | Route of application | Exposure time | Species | Method |
|---|---|---|---|---|---|---|
| Sodium carbonate<br>497-19-8 | LD50 | 2.800 mg/kg | oral | | rat | not specified |
| Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts<br>68411-30-3 | LD50 | 1.080 mg/kg | oral | | rat | OECD Guideline 401 (Acute Oral Toxicity) |
| Sodium silicate<br>1344-09-8 | LD50 | 3.400 mg/kg | oral | | rat | OECD Guideline 401 (Acute Oral Toxicity) |
| Alcohols, C12-18, ethoxylated<br>68213-23-0 | LD50 | 1.700 mg/kg | oral | | rat | not specified |

**Acute inhalative toxicity:**

| Hazardous components<br>CAS-No. | Value type | Value | Route of application | Exposure time | Species | Method |
|---|---|---|---|---|---|---|

**Acute dermal toxicity:**

| Hazardous components<br>CAS-No. | Value type | Value | Route of application | Exposure time | Species | Method |
|---|---|---|---|---|---|---|
| Sodium carbonate<br>497-19-8 | LD50 | > 2.000 mg/kg | dermal | | rabbit | EPA 16 CFR 1500.40 (Method of testing toxic substances) |
| Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts<br>68411-30-3 | LD50 | > 2.000 mg/kg | dermal | | rat | OECD Guideline 402 (Acute Dermal Toxicity) |
| Sodium silicate<br>1344-09-8 | LD50 | > 5.000 mg/kg | dermal | | rat | EPA OPPTS 870.1200 (Acute Dermal Toxicity) |

**Skin corrosion/irritation:**

| Hazardous components<br>CAS-No. | Result | Exposure time | Species | Method |
|---|---|---|---|---|
| Sodium carbonate<br>497-19-8 | not irritating | 4 h | rabbit | OECD Guideline 404 (Acute Dermal Irritation / Corrosion) |
| Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts<br>68411-30-3 | Category 2 (irritant) | 4 h | rabbit | OECD Guideline 404 (Acute Dermal Irritation / Corrosion) |
| Sodium silicate<br>1344-09-8 | irritating | 4 h | rabbit | OECD Guideline 404 (Acute Dermal Irritation / Corrosion) |
| Alcohols, C12-18, ethoxylated<br>68213-23-0 | moderately irritating | 4 h | rabbit | OECD Guideline 404 (Acute Dermal Irritation / Corrosion) |

**Serious eye damage/irritation:**

| Hazardous components<br>CAS-No. | Result | Exposure time | Species | Method |
|---|---|---|---|---|
| Sodium carbonate<br>497-19-8 | irritating | | rabbit | not specified |
| Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts<br>68411-30-3 | Category 1 (irreversible effects on the eye) | 30 s | rabbit | OECD Guideline 405 (Acute Eye Irritation / Corrosion) |
| Sodium silicate<br>1344-09-8 | highly irritating | | rabbit | In vitro |
| Alcohols, C12-18, ethoxylated<br>68213-23-0 | highly irritating | 24 h | rabbit | OECD Guideline 405 (Acute Eye Irritation / Corrosion) |

**Respiratory or skin sensitization:**

| Hazardous components<br>CAS-No. | Result | Test type | Species | Method |
|---|---|---|---|---|
| Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts<br>68411-30-3 | not sensitising | Guinea pig maximisation test | guinea pig | OECD Guideline 406 (Skin Sensitisation) |
| Sodium silicate<br>1344-09-8 | not sensitising | Mouse local lymphnode assay (LLNA) | mouse | OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay) |

**Germ cell mutagenicity:**

| Hazardous components CAS-No. | Result | Type of study / Route of administration | Metabolic activation / Exposure time | Species | Method |
|---|---|---|---|---|---|
| Sodium carbonate 497-19-8 | negative | bacterial reverse mutation assay (e.g Ames test) | with | | Ames Test |
| Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts 68411-30-3 | negative | bacterial reverse mutation assay (e.g Ames test) | with and without | | EU Method B.13/14 (Mutagenicity) |
| | negative | in vitro mammalian chromosome aberration test | without | | OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test) |
| | negative | mammalian cell gene mutation assay | with and without | | OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test) |
| Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts 68411-30-3 | negative | oral: gavage | | mouse | OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test) |
| | negative | oral: feed | | mouse | not specified |
| Sodium silicate 1344-09-8 | negative | in vitro mammalian chromosome aberration test | with and without | | OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test) |
| | negative | mammalian cell gene mutation assay | with and without | | OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test) |
| | negative | bacterial reverse mutation assay (e.g Ames test) | with and without | | OECD Guideline 471 (Bacterial Reverse Mutation Assay) |
| Sodium silicate 1344-09-8 | negative | oral: feed | | mouse | OECD Guideline 475 (Mammalian Bone Marrow Chromosome Aberration Test) |

**Reproductive toxicity:**

| Hazardous substances CAS-No. | Result / Classification | Species | Exposure time | Species | Method |
|---|---|---|---|---|---|
| Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts 68411-30-3 | NOAEL P = 350 mg/kg<br>NOAEL F1 = 350 mg/kg<br>NOAEL F2 = 350 mg/kg | three-generation study oral: feed | 2 y | rat | not specified |
| Sodium silicate 1344-09-8 | NOAEL P = > 159 mg/kg | multigeneration study oral: drinking water | 12 w | rat | not specified |

**Repeated dose toxicity**

| Hazardous components CAS-No. | Result | Route of application | Exposure time / Frequency of treatment | Species | Method |
|---|---|---|---|---|---|
| Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts 68411-30-3 | NOAEL=125 mg/kg | oral: gavage | 28 ddaily | rat | not specified |
| Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts 68411-30-3 | LOAEL=250 mg/kg | oral: gavage | 28 ddaily | rat | not specified |
| Sodium silicate 1344-09-8 | NOAEL=2.400 mg/kg | oral: feed | 4 wdaily | rat | OECD Guideline 407 (Repeated Dose 28-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 (EC) No 1272/2008. 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.

**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 |
|---|---|---|---|---|---|---|
| Sodium carbonate 497-19-8 | LC50 | 300 mg/l | Fish | 96 h | Lepomis macrochirus | OECD Guideline 203 (Fish, Acute Toxicity Test) |
| Sodium carbonate 497-19-8 | EC50 | 200 - 227 mg/l | Daphnia | 48 h | Ceriodaphnia sp. | OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) |
| Sodium carbonate 497-19-8 | EC50 | 137 mg/l | Algae | 5 d | Nitzschia sp. | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| Sodium carbonate 497-19-8 | EC 50 | 300 mg/l | Bacteria | 30 min | | not specified |
| Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts 68411-30-3 | NOEC | > 0,43 - 0,89 mg/l | Fish | 28 d | Salmo gairdneri (new name: Oncorhynchus mykiss) | OECD Guideline 210 (fish early lite stage toxicity test) |
| | LC50 | 1,67 mg/l | Fish | 96 h | Lepomis macrochirus | OECD Guideline 203 (Fish, Acute Toxicity Test) |
| | NOEC | 1 mg/l | Fish | 28 d | Lepomis macrochirus | OECD Guideline 204 (Fish, Prolonged Toxicity Test: 14-day Study) |
| Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts 68411-30-3 | EC50 | 2,9 mg/l | Daphnia | 48 h | Daphnia magna | OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) |
| Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts 68411-30-3 | EC50 | 127,9 mg/l | Algae | 72 h | Scenedesmus subspicatus (new name: Desmodesmus subspicatus) | not specified |
| | NOEC | 2,4 mg/l | Algae | 72 h | Scenedesmus subspicatus (new name: Desmodesmus subspicatus) | not specified |
| Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts 68411-30-3 | EC0 | 26 mg/l | Bacteria | 16 h | | not specified |
| Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts 68411-30-3 | NOEC | 1,18 mg/l | chronic Daphnia | 21 day | Daphnia magna | OECD 211 (Daphnia magna, Reproduction Test) |
| Sodium silicate 1344-09-8 | LC50 | > 100 mg/l | Fish | 96 h | Brachydanio rerio (new name: Danio rerio) | not specified |
| Alcohols, C12-18, ethoxylated 68213-23-0 | LC50 | 1,2 mg/l | Fish | 48 h | Leuciscus idus | DIN 38412-15 |
| | NOEC | 0,32 mg/l | Fish | 28 d | Oncorhynchus mykiss | OECD Guideline 204 (Fish, Prolonged Toxicity Test: 14-day Study) |
| Alcohols, C12-18, ethoxylated 68213-23-0 | EC50 | 3 mg/l | Daphnia | 24 h | Daphnia magna | not specified |
| Alcohols, C12-18, ethoxylated 68213-23-0 | EC50 | 3,1 mg/l | Algae | 72 h | Scenedesmus subspicatus (new name: Desmodesmus subspicatus) | DIN 38412-09 |
| Alcohols, C12-18, ethoxylated 68213-23-0 | EC0 | 10.000 mg/l | Bacteria | 16 h | | not specified |
| Alcohols, C12-18, ethoxylated 68213-23-0 | NOEC | 0,24 mg/l | chronic Daphnia | | | OECD 211 (Daphnia magna, Reproduction Test) |

### 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<br>CAS-No. | Result | Route of application | Degradability | Method |
|---|---|---|---|---|
| Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts<br>68411-30-3 | readily biodegradable | aerobic | 85 % | OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test) |
| Alcohols, C12-18, ethoxylated<br>68213-23-0 | readily biodegradable | aerobic | 79 % | OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test) |

### 12.3. Bioaccumulative potential / 12.4. Mobility in soil

| Hazardous components<br>CAS-No. | LogPow | Bioconcentration factor (BCF) | Exposure time | Species | Temperature | Method |
|---|---|---|---|---|---|---|
| Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts<br>68411-30-3 | 3,32 | | | | | not specified |

### 12.5. Results of PBT and vPvB assessment

| Hazardous components<br>CAS-No. | PBT/vPvB |
|---|---|
| Sodium carbonate<br>497-19-8 | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria. |
| Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts<br>68411-30-3 | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria. |
| Alcohols, C12-18, ethoxylated<br>68213-23-0 | 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.

Waste code

070601

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.

## SECTION 14: Transport information

**14.1. UN number**

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

**14.2. UN proper shipping name**

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

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

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

**14.4. Packing group**

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

**14.5. Environmental hazards**

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

**14.6. Special precautions for user**

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

**14.7. Transport in bulk according to Annex II of Marpol 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 (2010/75/EU) | 0 % |

**15.2. Chemical safety assessment**

A chemical safety assessment has been carried out.

**National regulations/information (Great Britain):**

| | |
|---|---|
| Remarks | Control of Substances Hazardous to Health Regulations (COSHH), and related guidance, e.g COSHH Essentials.<br>EH40 Occupational Exposure Limits<br>Chemicals (Hazard Information & Packaging for Supply) Regulations.<br>The Personnel Protective Equipment at Work Regulations.<br>The Carriage of Dangerous Goods by Road Regulations.<br>The Health & Safety at Work Act 1974.<br>(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.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
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.

**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.**

## Annex - Exposure Scenarios:

Exposure Scenarios for sodium carbonate can be downloaded under the following link:
http://mymsds.henkel.com/mymsds/.544061..en.ANNEX_DE.24579147.0.DE.pdf
Alternatively they can be accessed on the internet site www.mymsds.henkel.com by entering number 544061.