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



SDS No.: 153749
V005.0
LOCTITE LB 8009
Revision: 23.03.2021
printing date: 24.09.2021
Replaces version from: 07.06.2019

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

**1.1. Product identifier**
LOCTITE LB 8009

**1.2. Relevant identified uses of the substance or mixture and uses advised against**
Intended use:
Antiseize

**1.3. Details of the supplier of the safety data sheet**
Henkel Ltd
Adhesives
Wood Lane End
HP2 4RQ Hemel Hempstead

Great Britain

Phone: +44 (1442) 278000
Fax-no.: +44 (1442) 278071

ua-productsafety.uk@henkel.com
For Safety Data Sheet updates please visit our website https://mysds.henkel.com/index.html#/appSelection or www.henkel-adhesives.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:**



**Contains** (C10-C16) Alkylbenzenesulfonic acid

| | |
|---|---|
| **Signal word:** | Danger |
| **Hazard statement:** | H315 Causes skin irritation.<br>H318 Causes serious eye damage. |
| **Precautionary statement: Prevention** | P280 Wear eye protection/face 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>P302+P352 IF ON SKIN: Wash with plenty of soap and water. |

**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**

**General chemical description:**
Lubricant

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

| Hazardous components<br>CAS-No. | EC Number<br>REACH-Reg No. | content | Classification |
|---|---|---|---|
| Calcium fluoride<br>7789-75-5 | 232-188-7<br>01-2119491248-30 | 10- < 20 % | |
| (C10-C16) Alkylbenzenesulfonic acid<br>68584-22-5 | 271-528-9 | 1- < 5 % | Eye Dam. 1<br>H318<br>Skin Corr. 1A<br>H314<br>Acute Tox. 4; Oral<br>H302<br>Aquatic Chronic 3<br>H412 |
| Boric acid (HBO2), calcium salt<br>13701-64-9 | 237-224-5 | 1- < 5 % | Skin Irrit. 2; Dermal<br>H315<br>Eye Irrit. 2<br>H319<br>STOT SE 3; Inhalation<br>H335 |
| Calcium dihydroxide<br>1305-62-0 | 215-137-3<br>01-2119475151-45 | 1- < 3 % | Skin Irrit. 2; Dermal<br>H315<br>Eye Dam. 1<br>H318<br>STOT SE 3; Inhalation<br>H335 |

**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.**

## SECTION 4: First aid measures

**4.1. Description of first aid measures**

Inhalation:
Move to fresh air. If symptoms persist, seek medical advice.

Skin contact:
Rinse with running water and soap.
Obtain medical attention if irritation persists.

Eye contact:
Rinse immediately with plenty of running water (for 10 minutes), seek medical attention from a specialist.

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

SKIN: Redness, inflammation.

**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

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

**5.2. Special hazards arising from the substance or mixture**
In the event of a fire, carbon monoxide (CO), carbon dioxide (CO2) and nitrogen oxides (NOx) can be released.

**5.3. Advice for firefighters**
Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear.

**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**
Ensure adequate ventilation.
Wear protective equipment.
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**
For small spills wipe up with paper towel and place in container for disposal.
For large spills absorb onto inert absorbent material and place in sealed container for disposal.
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.
See advice in section 8
Use only in well-ventilated areas.
Vapours should be extracted to avoid inhalation.
Prolonged or repeated skin contact should be avoided

Hygiene measures:
Wash hands before work breaks and after finishing work.
Do not eat, drink or smoke while working.
Good industrial hygiene practices should be observed.

**7.2. Conditions for safe storage, including any incompatibilities**
Refer to Technical Data Sheet

**7.3. Specific end use(s)**
Antiseize

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

**Occupational Exposure Limits**

Valid for
Great Britain

| Ingredient [Regulated substance] | ppm | mg/m³ | Value type | Short term exposure limit category / Remarks | Regulatory list |
|---|---|---|---|---|---|
| Calcium fluoride<br>7789-75-5<br>[FLOURIDE (INORGANIC, ASF)] | | 2,5 | Time Weighted Average (TWA): | | EH40 WEL |
| Calcium fluoride<br>7789-75-5<br>[FLUORIDES, INORGANIC] | | 2,5 | Time Weighted Average (TWA): | Indicative | ECTLV |
| Graphite<br>7782-42-5<br>[GRAPHITE, INHALABLE DUST] | | 10 | Time Weighted Average (TWA): | | EH40 WEL |
| Graphite<br>7782-42-5<br>[GRAPHITE, RESPIRABLE DUST] | | 4 | Time Weighted Average (TWA): | | EH40 WEL |
| Calcium dihydroxide<br>1305-62-0<br>[CALCIUM HYDROXIDE] | | 5 | Time Weighted Average (TWA): | | EH40 WEL |
| Calcium dihydroxide<br>1305-62-0<br>[CALCIUM DIHYDROXIDE (RESPIRABLE FRACTION)] | | 4 | Short Term Exposure Limit (STEL): | Indicative | ECTLV |
| Calcium dihydroxide<br>1305-62-0<br>[CALCIUM DIHYDROXIDE (RESPIRABLE FRACTION)] | | 1 | Time Weighted Average (TWA): | Indicative | ECTLV |
| Calcium dihydroxide<br>1305-62-0<br>[CALCIUM HYDROXIDE (RESPIRABLE FRACTION)] | | 1 | Time Weighted Average (TWA): | | EH40 WEL |
| Calcium dihydroxide<br>1305-62-0<br>[CALCIUM HYDROXIDE (RESPIRABLE FRACTION)] | | 4 | Short Term Exposure Limit (STEL): | 15 minutes | EH40 WEL |

**Occupational Exposure Limits**

Valid for
Ireland

| Ingredient [Regulated substance] | ppm | mg/m³ | Value type | Short term exposure limit category / Remarks | Regulatory list |
|---|---|---|---|---|---|
| Distillates (petroleum), solvent-dewaxed heavy paraffinic<br>64742-65-0<br>[MINERAL OILS THAT HAVE BEEN USED BEFORE IN INTERNAL COMBUSTION ENGINES TO LUBRICATE AND COOL THE MOVING PARTS WITHIN THE ENGINE] | | | | Included in the regulation but with no data values. See regulation for further details | IR_OEL |
| Distillates (petroleum), solvent-dewaxed heavy paraffinic<br>64742-65-0<br>[MINERAL OILS THAT HAVE BEEN USED BEFORE IN INTERNAL COMBUSTION ENGINES TO LUBRICATE AND COOL THE MOVING PARTS WITHIN THE ENGINE] | | | Skin designation: | Can be absorbed through the skin. | IR_OEL |
| Distillates (petroleum), solvent-dewaxed heavy paraffinic<br>64742-65-0<br>[MINERAL OIL PURE, HIGHLY & SEVERELY REFINED] | | 5 | Time Weighted Average (TWA): | | IR_OEL |
| Calcium fluoride<br>7789-75-5 | | 2,5 | Time Weighted Average (TWA): | Indicative OELV | IR_OEL |

| | | | | | |
|---|---|---|---|---|---|
| [FLUORIDES, INORGANIC] | | | | | |
| Calcium fluoride<br>7789-75-5<br>[FLUORIDES, INORGANIC] | | 2,5 | Time Weighted Average (TWA): | Indicative | ECTLV |
| Calcium fluoride<br>7789-75-5<br>[FLUORIDE] | | 2,5 | Time Weighted Average (TWA): | | IR_OEL |
| Graphite<br>7782-42-5<br>[GRAPHITE (ALL FORMS EXCEPT FIBRES) (RESPIRABLE FRACTION)] | | 2 | Time Weighted Average (TWA): | | IR_OEL |
| Graphite<br>7782-42-5<br>[GRAPHITE (ALL FORMS EXCEPT FIBRES)] | | 2 | Time Weighted Average (TWA): | | IR_OEL |
| Calcium distearate<br>1592-23-0<br>[STEARATES (EXCEPT LEAD STEARATE)] | | 10 | Time Weighted Average (TWA): | | IR_OEL |
| Distillates (petroleum), hydrotreated heavy naphthenic<br>64742-52-5<br>[MINERAL OILS THAT HAVE BEEN USED BEFORE IN INTERNAL COMBUSTION ENGINES TO LUBRICATE AND COOL THE MOVING PARTS WITHIN THE ENGINE] | | | Skin designation: | Can be absorbed through the skin. | IR_OEL |
| Distillates (petroleum), hydrotreated heavy naphthenic<br>64742-52-5<br>[MINERAL OIL PURE, HIGHLY & SEVERELY REFINED] | | 5 | Time Weighted Average (TWA): | | IR_OEL |
| Distillates (petroleum), hydrotreated heavy naphthenic<br>64742-52-5<br>[MINERAL OILS THAT HAVE BEEN USED BEFORE IN INTERNAL COMBUSTION ENGINES TO LUBRICATE AND COOL THE MOVING PARTS WITHIN THE ENGINE] | | | | Included in the regulation but with no data values. See regulation for further details | IR_OEL |
| Distillates (petroleum), hydrotreated light naphthenic < 3% DMSO<br>64742-53-6<br>[MINERAL OILS THAT HAVE BEEN USED BEFORE IN INTERNAL COMBUSTION ENGINES TO LUBRICATE AND COOL THE MOVING PARTS WITHIN THE ENGINE] | | | Skin designation: | Can be absorbed through the skin. | IR_OEL |
| Distillates (petroleum), hydrotreated light naphthenic < 3% DMSO<br>64742-53-6<br>[MINERAL OIL PURE, HIGHLY & SEVERELY REFINED] | | 5 | Time Weighted Average (TWA): | | IR_OEL |
| Distillates (petroleum), hydrotreated light naphthenic < 3% DMSO<br>64742-53-6<br>[MINERAL OILS THAT HAVE BEEN USED BEFORE IN INTERNAL COMBUSTION ENGINES TO LUBRICATE AND COOL THE MOVING PARTS WITHIN THE ENGINE] | | | | Included in the regulation but with no data values. See regulation for further details | IR_OEL |
| Diboron calcium tetraoxide<br>13701-64-9<br>[BORATE COMPOUNDS INORGANIC] | | 2 | Time Weighted Average (TWA): | | IR_OEL |
| Calcium dihydroxide<br>1305-62-0<br>[CALCIUM DIHYDROXIDE (RESPIRABLE FRACTION)] | | 4 | Short Term Exposure Limit (STEL): | Indicative | ECTLV |
| Calcium dihydroxide<br>1305-62-0<br>[CALCIUM DIHYDROXIDE (RESPIRABLE FRACTION)] | | 1 | Time Weighted Average (TWA): | Indicative | ECTLV |
| Calcium dihydroxide<br>1305-62-0<br>[CALCIUM DIHYDROXIDE (RESPIRABLE FRACTION)] | | 4 | Short Term Exposure Limit (STEL): | 15 minutes<br>Indicative OELV | IR_OEL |

| | | | | | |
|---|---|---|---|---|---|
| Calcium dihydroxide<br>1305-62-0<br>[CALCIUM DIHYDROXIDE (RESPIRABLE FRACTION)] | | 1 | Time Weighted Average (TWA): | Indicative OELV | IR_OEL |
| Calcium dihydroxide<br>1305-62-0<br>[CALCIUM DIHYDROXIDE] | | 4 | Short Term Exposure Limit (STEL): | 15 minutes<br>Indicative OELV | IR_OEL |
| Calcium dihydroxide<br>1305-62-0<br>[CALCIUM DIHYDROXIDE] | | 1 | Time Weighted Average (TWA): | Indicative OELV | IR_OEL |

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

| **Name on list** | **Environmental Compartment** | **Exposure period** | **Value** | | | | **Remarks** |
|---|---|---|---|---|---|---|---|
| | | | **mg/l** | **ppm** | **mg/kg** | **others** | |
| Calcium fluoride<br>7789-75-5 | aqua (freshwater) | | 0,9 mg/l | | | | |
| Calcium fluoride<br>7789-75-5 | sewage treatment plant (STP) | | 51 mg/l | | | | |
| Calcium fluoride<br>7789-75-5 | Soil | | | | 11 mg/kg | | |
| Calcium dihydroxide<br>1305-62-0 | aqua (freshwater) | | 0,49 mg/l | | | | |
| Calcium dihydroxide<br>1305-62-0 | aqua (marine water) | | 0,32 mg/l | | | | |
| Calcium dihydroxide<br>1305-62-0 | aqua (intermittent releases) | | 0,49 mg/l | | | | |
| Calcium dihydroxide<br>1305-62-0 | sewage treatment plant (STP) | | 3 mg/l | | | | |
| Calcium dihydroxide<br>1305-62-0 | Soil | | | | 1080 mg/kg | | |

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

| Name on list | Application Area | Route of Exposure | Health Effect | Exposure Time | Value | Remarks |
|---|---|---|---|---|---|---|
| Calcium fluoride 7789-75-5 | Workers | inhalation | Long term exposure - systemic effects | | 5 mg/m3 | |
| Calcium fluoride 7789-75-5 | General population | inhalation | Long term exposure - systemic effects | | 0,5 mg/m3 | |
| Calcium fluoride 7789-75-5 | General population | oral | Long term exposure - systemic effects | | 0,02 mg/kg | |
| Benzenesulfonic acid, C10-16-alkyl derivs. 68584-22-5 | Workers | inhalation | Long term exposure - systemic effects | | 0,66 mg/m3 | |
| Benzenesulfonic acid, C10-16-alkyl derivs. 68584-22-5 | Workers | dermal | Long term exposure - systemic effects | | 3,33 mg/kg | |
| Benzenesulfonic acid, C10-16-alkyl derivs. 68584-22-5 | General population | inhalation | Long term exposure - systemic effects | | 0,33 mg/m3 | |
| Benzenesulfonic acid, C10-16-alkyl derivs. 68584-22-5 | General population | dermal | Long term exposure - systemic effects | | 1,667 mg/kg | |
| Benzenesulfonic acid, C10-16-alkyl derivs. 68584-22-5 | General population | oral | Long term exposure - systemic effects | | 0,833 mg/kg | |
| Calcium dihydroxide 1305-62-0 | Workers | Inhalation | Acute/short term exposure - local effects | | 4 mg/m3 | |
| Calcium dihydroxide 1305-62-0 | Workers | Inhalation | Long term exposure - local effects | | 1 mg/m3 | |
| Calcium dihydroxide 1305-62-0 | General population | Inhalation | Acute/short term exposure - local effects | | 4 mg/m3 | |
| Calcium dihydroxide 1305-62-0 | 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:
Ensure adequate ventilation.
An approved mask or respirator fitted with an organic vapour cartridge should be worn if the product is used in a poorly ventilated area
Filter type: A (EN 14387)

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):
nitrile rubber (NBR; >= 0.4 mm thickness)
Suitable materials for longer, direct contact (recommended: protection index 6, corresponding to > 480 minutes permeation time as per EN 374):
nitrile rubber (NBR; >= 0.4 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:
Safety glasses with sideshields or chemical safety goggles should be worn if there is a risk of splashing.
Protective eye equipment should conform to EN166.

Skin protection:
Wear 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 | paste<br>grey |
| Odor | characteristic |
| Odour threshold | No data available / Not applicable |
| pH | No data available / Not applicable |
| Melting point | No data available / Not applicable |
| Solidification temperature | No data available / Not applicable |
| Initial boiling point | 288 °C (550.4 °F) |
| Flash point | > 93 °C (> 199.4 °F) |
| 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<br>() | 1,1799 g/cm3 |
| Bulk density | No data available / Not applicable |
| Solubility | No data available / Not applicable |
| Solubility (qualitative)<br>(Solvent: Water) | Insoluble |
| 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**
Reacts with strong oxidants.

**10.2. Chemical stability**
Stable under recommended storage conditions.

**10.3. Possibility of hazardous reactions**
See section reactivity

**10.4. Conditions to avoid**
Stable

**10.5. Incompatible materials**
See section reactivity.

**10.6. Hazardous decomposition products**
Irritating organic vapours.

## SECTION 11: Toxicological information

**11.1. Information on toxicological effects**

**Acute oral toxicity:**

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances<br>CAS-No. | Value type | Value | Species | Method |
|---|---|---|---|---|
| Calcium fluoride<br>7789-75-5 | LD0 | > 2.000 mg/kg | rat | OECD Guideline 423 (Acute Oral toxicity) |
| (C10-C16) Alkylbenzenesulfonic acid<br>68584-22-5 | LD50 | 1.080 mg/kg | rat | OECD Guideline 401 (Acute Oral Toxicity) |
| Boric acid (HBO2), calcium salt<br>13701-64-9 | LD50 | > 2.000 mg/kg | rat | not specified |
| Calcium dihydroxide<br>1305-62-0 | LD50 | > 7.340 mg/kg | rat | OECD Guideline 401 (Acute Oral Toxicity) |

**Acute dermal toxicity:**

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances<br>CAS-No. | Value type | Value | Species | Method |
|---|---|---|---|---|
| (C10-C16) Alkylbenzenesulfonic acid<br>68584-22-5 | LD50 | > 5.000 mg/kg | rabbit | equivalent or similar to OECD Guideline 402 (Acute Dermal Toxicity) |
| Boric acid (HBO2), calcium salt<br>13701-64-9 | LD50 | > 2.000 mg/kg | rabbit | not specified |
| Calcium dihydroxide<br>1305-62-0 | LD50 | > 2.500 mg/kg | rat | OECD Guideline 402 (Acute Dermal Toxicity) |

**Acute inhalative toxicity:**

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances<br>CAS-No. | Value type | Value | Test atmosphere | Exposure time | Species | Method |
|---|---|---|---|---|---|---|
| Calcium fluoride<br>7789-75-5 | LC50 | | dust | 4 h | rat | OECD Guideline 403 (Acute Inhalation Toxicity) |

**Skin corrosion/irritation:**

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances<br>CAS-No. | Result | Exposure time | Species | Method |
|---|---|---|---|---|
| Calcium fluoride<br>7789-75-5 | not irritating | | rabbit | OECD Guideline 404 (Acute Dermal Irritation / Corrosion) |
| (C10-C16) Alkylbenzenesulfonic acid<br>68584-22-5 | corrosive | 4 h | rabbit | Draize Test |
| Calcium dihydroxide<br>1305-62-0 | irritating | 4 h | rabbit | OECD Guideline 404 (Acute Dermal Irritation / Corrosion) |

**Serious eye damage/irritation:**

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances<br>CAS-No. | Result | Exposure time | Species | Method |
|---|---|---|---|---|
| Calcium fluoride<br>7789-75-5 | not irritating | | rabbit | OECD Guideline 405 (Acute Eye Irritation / Corrosion) |
| (C10-C16) Alkylbenzenesulfonic acid<br>68584-22-5 | corrosive | | rabbit | OECD Guideline 405 (Acute Eye Irritation / Corrosion) |
| Calcium dihydroxide<br>1305-62-0 | Category 1 (irreversible effects on the eye) | | rabbit | OECD Guideline 405 (Acute Eye Irritation / Corrosion) |

**Respiratory or skin sensitization:**

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

| Hazardous substances<br>CAS-No. | Result | Test type | Species | Method |
|---|---|---|---|---|
| Calcium fluoride<br>7789-75-5 | not sensitising | Mouse local lymphnode assay (LLNA) | mouse | OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay) |
| (C10-C16) Alkylbenzenesulfonic acid<br>68584-22-5 | not sensitising | Patch-Test | human | Patch Test |

**Germ cell mutagenicity:**

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

| Hazardous substances<br>CAS-No. | Result | Type of study / Route of administration | Metabolic activation / Exposure time | Species | Method |
|---|---|---|---|---|---|
| Calcium fluoride<br>7789-75-5 | negative | in vitro mammalian chromosome aberration test | with and without | | OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test) |
| Calcium fluoride<br>7789-75-5 | negative | bacterial reverse mutation assay (e.g Ames test) | with and without | | OECD Guideline 471 (Bacterial Reverse Mutation Assay) |
| Calcium fluoride<br>7789-75-5 | negative | | with and without | | OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test) |
| (C10-C16) Alkylbenzenesulfonic acid<br>68584-22-5 | negative | bacterial reverse mutation assay (e.g Ames test) | with and without | | OECD Guideline 471 (Bacterial Reverse Mutation Assay) |
| (C10-C16) Alkylbenzenesulfonic acid<br>68584-22-5 | negative | in vitro mammalian chromosome aberration test | with and without | | OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test) |
| (C10-C16) Alkylbenzenesulfonic acid<br>68584-22-5 | negative | mammalian cell gene mutation assay | with and without | | OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test) |
| Calcium dihydroxide<br>1305-62-0 | negative | bacterial reverse mutation assay (e.g Ames test) | with and without | | OECD Guideline 471 (Bacterial Reverse Mutation Assay) |
| (C10-C16) Alkylbenzenesulfonic acid<br>68584-22-5 | negative | intraperitoneal | | mouse | OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test) |

**Carcinogenicity**

No data available.

**Reproductive toxicity:**

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

| Hazardous substances<br>CAS-No. | Result / Value | Test type | Route of application | Species | Method |
|---|---|---|---|---|---|
| Calcium fluoride<br>7789-75-5 | NOAEL P 250 ppm<br><br>NOAEL F1 250 ppm | two-generation study | oral: drinking water | rat | OECD Guideline 416 (Two-Generation Reproduction Toxicity Study) |
| (C10-C16) Alkylbenzenesulfonic acid<br>68584-22-5 | NOAEL P > 500 mg/kg<br><br>NOAEL F1 > 500 mg/kg | One generation study | oral: gavage | rat | OECD Guideline 415 (One-Generation Reproduction Toxicity Study) |

**STOT-single exposure:**

No data available.

**STOT-repeated exposure::**

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

| Hazardous substances<br>CAS-No. | Result / Value | Route of application | Exposure time / Frequency of treatment | Species | Method |
|---|---|---|---|---|---|
| Calcium fluoride<br>7789-75-5 | | inhalation: aerosol | 28 d<br>6 hours/day, 5 days/week | rat | OECD Guideline 412 (Repeated Dose Inhalation Toxicity: 28/14-Day) |
| (C10-C16) Alkylbenzenesulfonic acid<br>68584-22-5 | NOAEL 500 mg/kg | oral: gavage | 29 d<br>daily | rat | OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity in Rodents) |

**Aspiration hazard:**

No data available.

## SECTION 12: Ecological information

**General ecological information:**
Do not empty into drains / surface water / ground water.

**12.1. Toxicity**

**Toxicity (Fish):**

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances<br>CAS-No. | Value type | Value | Exposure time | Species | Method |
|---|---|---|---|---|---|
| Calcium fluoride<br>7789-75-5 | NOEC | 4 mg/l | 21 d | Oncorhynchus mykiss | OECD Guideline 210 (fish early lite stage toxicity test) |
| (C10-C16) Alkylbenzenesulfonic acid<br>68584-22-5 | NOEC | 1 mg/l | 28 d | Lepomis macrochirus | OECD Guideline 204 (Fish, Prolonged Toxicity Test: 14-day Study) |
| (C10-C16) Alkylbenzenesulfonic acid<br>68584-22-5 | LC50 | 1,67 mg/l | 96 h | Lepomis macrochirus | |
| (C10-C16) Alkylbenzenesulfonic acid<br>68584-22-5 | NOEC | > 0,43 - 0,89 mg/l | 28 d | Salmo gairdneri (new name: Oncorhynchus mykiss) | OECD Guideline 210 (fish early lite stage toxicity test) |
| Calcium dihydroxide<br>1305-62-0 | LC50 | 50,6 mg/l | 96 h | Oncorhynchus mykiss | OECD Guideline 203 (Fish, Acute Toxicity Test) |

**Toxicity (Daphnia):**

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances<br>CAS-No. | Value type | Value | Exposure time | Species | Method |
|---|---|---|---|---|---|
| Calcium fluoride<br>7789-75-5 | EC50 | > 26 - 48 mg/l | 96 h | other: | other guideline: |
| (C10-C16) Alkylbenzenesulfonic acid<br>68584-22-5 | EC50 | 2,9 mg/l | 48 h | Daphnia magna | OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) |
| Calcium dihydroxide<br>1305-62-0 | EC50 | 49,1 mg/l | 48 h | Daphnia magna | OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) |

**Chronic toxicity to aquatic invertebrates**

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances<br>CAS-No. | Value type | Value | Exposure time | Species | Method |
|---|---|---|---|---|---|
| Calcium fluoride<br>7789-75-5 | NOEC | 3,7 mg/l | 21 d | Daphnia magna | other guideline: |
| Calcium dihydroxide<br>1305-62-0 | NOEC | 32 mg/l | 14 d | Crangon septemspinosa | OECD Guideline 202 (Daphnia sp. Chronic Immobilisation Test) |

**Toxicity (Algae):**

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances<br>CAS-No. | Value type | Value | Exposure time | Species | Method |
|---|---|---|---|---|---|
| (C10-C16) Alkylbenzenesulfonic acid<br>68584-22-5 | NOEC | 2,4 mg/l | 72 h | Scenedesmus subspicatus (new name: Desmodesmus subspicatus) | not specified |
| (C10-C16) Alkylbenzenesulfonic acid<br>68584-22-5 | EC50 | 127,9 mg/l | 72 h | Scenedesmus subspicatus (new name: Desmodesmus subspicatus) | not specified |
| Calcium dihydroxide<br>1305-62-0 | EC50 | 184,57 mg/l | 72 h | Pseudokirchneriella subcapitata | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| Calcium dihydroxide<br>1305-62-0 | NOEC | 48 mg/l | 72 h | Pseudokirchneriella subcapitata | OECD Guideline 201 (Alga, Growth Inhibition Test) |

**Toxicity to microorganisms**

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances<br>CAS-No. | Value type | Value | Exposure time | Species | Method |
|---|---|---|---|---|---|
| Calcium fluoride<br>7789-75-5 | NOEC | 231 mg/l | 16 h | Pseudomonas putida | other guideline: |
| (C10-C16) Alkylbenzenesulfonic acid<br>68584-22-5 | EC0 | 26 mg/l | 16 h | | not specified |
| Calcium dihydroxide<br>1305-62-0 | EC20 | 229,2 mg/l | 3 h | activated sludge of a predominantly domestic sewage | OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test) |

### 12.2. Persistence and degradability

| Hazardous substances<br>CAS-No. | Result | Test type | Degradability | Exposure time | Method |
|---|---|---|---|---|---|
| (C10-C16) Alkylbenzenesulfonic acid<br>68584-22-5 | readily biodegradable | aerobic | 92 % | 28 d | OECD Guideline 301 E (Ready biodegradability: Modified OECD Screening Test) |

### 12.3. Bioaccumulative potential

No data available.

### 12.4. Mobility in soil

No data available.

### 12.5. Results of PBT and vPvB assessment

| Hazardous substances<br>CAS-No. | PBT/ vPvB |
|---|---|
| Calcium fluoride<br>7789-75-5 | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria. |
| Boric acid (HBO2), calcium salt<br>13701-64-9 | According to Annex XIII of regulation (EC) 1907/2006 a PBT and vPvB assessment shall not be conducted for inorganic substances. |
| Calcium dihydroxide<br>1305-62-0 | 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:
Dispose of in accordance with local and national regulations.
Do not empty into drains / surface water / ground water.

Disposal of uncleaned packages:
After use, tubes, cartons and bottles containing residual product should be disposed of as chemically contaminated waste in an authorised legal land fill site or incinerated.

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.
14 06 03 Other solvents and solvent mixtures

## 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**

| | |
|---|---|
| Ozone Depleting Substance (ODS) (Regulation 1005/2009/EC): | Not applicable |
| Prior Informed Consent (PIC) (Regulation 649/2012/EC): | Not applicable |
| Persistent Organic Pollutants (POPs) (Regulation 2019/1021/EC) : | Not applicable |

**EU. REACH, Annex XVII, Marketing and Use Restrictions (Regulation 1907/2006/EC)**: Not applicable

| | |
|---|---|
| VOC content (2010/75/EC) | < 3 % |

**15.2. Chemical safety assessment**
A chemical safety assessment has not been carried out.

## 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.
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 Safety Data Sheet has been produced for sales from Henkel to parties purchasing from Henkel, is based on Regulation (EC) No 1907/2006 and provides information in accordance with applicable regulations of the European Union only. In that respect, no statement, warranty or representation of any kind is given as to compliance with any statutory laws or regulations of any other jurisdiction or territory other than the European Union. When exporting to territories other than the European Union, please consult with the respective Safety Data Sheet of the concerned territory to ensure compliance or liaise with Henkel´s Product Safety and Regulatory Affairs Department (ua-productsafety.de@henkel.com) prior to export to other territories than the European Union.

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.

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**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.**