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



SDS No. : 304659
V004.3

LOCTITE LB 8014 known as 8014, Food Grade

Revision: 20.10.2016
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Replaces version from: 12.06.2015

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

**1.1. Product identifier**
LOCTITE LB 8014 known as 8014, Food Grade

**Contains:**
Calcium dihydroxide

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

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

Great Britain

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

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 irritation | Category 2 |
| H315 Causes skin irritation. | |
| Serious eye damage | Category 1 |
| H318 Causes serious eye damage. | |
| Chronic hazards to the aquatic environment | Category 3 |
| H412 Harmful to aquatic life with long lasting effects. | |

**2.2. Label elements**

**Label elements (CLP):**

**Hazard pictogram:**

| | |
|---|---|
| **Signal word:** | Danger |
| **Hazard statement:** | H315 Causes skin irritation.<br>H318 Causes serious eye damage.<br>H412 Harmful to aquatic life with long lasting effects. |
| **Precautionary statement:**<br>**Prevention** | P273 Avoid release to the environment.<br>P280 Wear eye protection/face protection. |
| **Precautionary statement:**<br>**Response** | P302+P352 IF ON SKIN: Wash with plenty of water.<br>P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |

**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 dihydroxide<br>1305-62-0 | 215-137-3<br>01-2119475151-45 | 10- < 20 % | Skin Irrit. 2; Dermal<br>H315<br>Eye Dam. 1<br>H318<br>STOT SE 3; Inhalation<br>H335 |
| zinc oxide<br>1314-13-2 | 215-222-5<br>01-2119463881-32 | 0,25- < 2,5 % | Aquatic Acute 1<br>H400<br>Aquatic Chronic 1<br>H410 |

**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.
Seek medical advice.

Eye contact:
Rinse immediately with plenty of running water (for 10 minutes). Seek medical attention if necessary.

Ingestion:
Rinse out mouth, drink 1-2 glasses of water, do not induce vomiting.
Seek medical advice.

**4.2. Most important symptoms and effects, both acute and delayed**
EYE: Irritation, conjunctivitis.

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:**
None known

**5.2. Special hazards arising from the substance or mixture**
Oxides of carbon, oxides of nitrogen, irritating organic vapors.
Sulphur oxides

**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**
Avoid contact with skin and eyes.
Wear protective equipment.
Ensure adequate ventilation.

**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.

**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

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

**7.2. Conditions for safe storage, including any incompatibilities**
Store in original containers at 8-21°C (46.4-69.8°F) and do not return residual materials to containers as contamination may reduce the shelf life of the bulk product.

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

## 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 dihydroxide<br>1305-62-0<br>[CALCIUM HYDROXIDE] | | 5 | Time Weighted Average (TWA): | | EH40 WEL |
| Calcium dihydroxide<br>1305-62-0<br>[CALCIUM DIHYDROXIDE] | | 5 | Time Weighted Average (TWA): | Indicative | ECTLV |
| Talc (Mg3H2(SiO3)4)<br>14807-96-6<br>[TALC, RESPIRABLE DUST] | | 1 | Time Weighted Average (TWA): | | EH40 WEL |

**Occupational Exposure Limits**

Valid for
Ireland

| Ingredient [Regulated substance] | ppm | mg/m³ | Value type | Short term exposure limit category / Remarks | Regulatory list |
|---|---|---|---|---|---|
| White mineral oil (petroleum)<br>8042-47-5<br>[MINERAL OIL USED IN METAL WORKING, INHALABLE FRACTION] | | 0,2 | Time Weighted Average (TWA): | | IR_OEL |
| White mineral oil (petroleum)<br>8042-47-5<br>[MINERAL OIL, PURE, HIGHLY & SEVERELY REFINED, INHALABLE FRACTION] | | 5 | Time Weighted Average (TWA): | | IR_OEL |
| Calcium dihydroxide<br>1305-62-0<br>[CALCIUM HYDROXIDE] | | 5 | Time Weighted Average (TWA): | | IR_OEL |
| Calcium dihydroxide<br>1305-62-0<br>[CALCIUM DIHYDROXIDE] | | 5 | Time Weighted Average (TWA): | Indicative | ECTLV |
| Talc (Mg3H2(SiO3)4)<br>14807-96-6<br>[TALC, RESPIRABLE DUST] | | 0,8 | Time Weighted Average (TWA): | | IR_OEL |
| Talc (Mg3H2(SiO3)4)<br>14807-96-6<br>[TALC, TOTAL INHALABLE DUST] | | 10 | Time Weighted Average (TWA): | | IR_OEL |
| Zinc oxide<br>1314-13-2<br>[ZINC OXIDE, FUME (RESPIRABLE FRACTION)] | | 2 | Time Weighted Average (TWA): | | IR_OEL |
| Zinc oxide<br>1314-13-2<br>[ZINC OXIDE, FUME (RESPIRABLE FRACTION)] | | 10 | Short Term Exposure Limit (STEL): | | IR_OEL |

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

| Name on list | Environmental Compartment | Exposure period | Value | | | | Remarks |
|---|---|---|---|---|---|---|---|
| | | | mg/l | ppm | mg/kg | others | |
| Calcium dihydroxide 1305-62-0 | aqua (freshwater) | | | | | 0,49 mg/L | |
| Calcium dihydroxide 1305-62-0 | aqua (marine water) | | | | | 0,32 mg/L | |
| Calcium dihydroxide 1305-62-0 | aqua (intermittent releases) | | | | | 0,49 mg/L | |
| Calcium dihydroxide 1305-62-0 | sewage treatment plant (STP) | | | | | 3 mg/L | |
| Calcium dihydroxide 1305-62-0 | soil | | | | 1080 mg/kg | | |
| zinc oxide 1314-13-2 | aqua (freshwater) | | | | | 20,6 µg/L | |
| zinc oxide 1314-13-2 | aqua (marine water) | | | | | 6,1 µg/L | |
| zinc oxide 1314-13-2 | sewage treatment plant (STP) | | | | | 100 µg/L | |
| zinc oxide 1314-13-2 | sediment (freshwater) | | | | 117,8 mg/kg | | |
| zinc oxide 1314-13-2 | sediment (marine water) | | | | 56,5 mg/kg | | |
| zinc oxide 1314-13-2 | soil | | | | 35,6 mg/kg | | |

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

| Name on list | Application Area | Route of Exposure | Health Effect | Exposure Time | Value | Remarks |
|---|---|---|---|---|---|---|
| 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 | |
| zinc oxide 1314-13-2 | Workers | Inhalation | Long term exposure - systemic effects | | 5 mg/m3 | |
| zinc oxide 1314-13-2 | Workers | dermal | Long term exposure - systemic effects | | 83 mg/kg bw/day | |
| zinc oxide 1314-13-2 | Workers | inhalation | Long term exposure - local effects | | 0,5 mg/m3 | |
| zinc oxide 1314-13-2 | General population | Inhalation | Long term exposure - systemic effects | | 2,5 mg/m3 | |
| zinc oxide 1314-13-2 | General population | dermal | Long term exposure - systemic effects | | 83 mg/kg bw/day | |
| zinc oxide 1314-13-2 | General population | oral | Long term exposure - systemic effects | | 0,83 mg/kg bw/day | |

**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>paste<br>white |
| Odor | mild |
| Odour threshold | No data available / Not applicable |
| pH | No data available / Not applicable |
| Initial boiling point | No data available / Not applicable |
| Flash point | 154 °C (309.2 °F); calculated |
| Decomposition temperature | No data available / Not applicable |
| Vapour pressure | No data available / Not applicable |
| Density | No data available / Not applicable |
| 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)<br>(Solvent: Water) | Insoluble |

| | |
|---|---|
| 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**
Reaction with strong acids.
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**
Oxides of carbon.

## 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.

**Oral toxicity:**
May cause irritation to the digestive tract.

**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 |
|---|---|---|---|---|---|---|
| Calcium dihydroxide<br>1305-62-0 | LD50 | > 7.340 mg/kg | oral | | rat | OECD Guideline 401 (Acute Oral Toxicity) |
| zinc oxide<br>1314-13-2 | LD50 | > 5.000 mg/kg | oral | | rat | OECD Guideline 401 (Acute Oral Toxicity) |

**Acute inhalative toxicity:**

| Hazardous components CAS-No. | Value type | Value | Route of application | Exposure time | Species | Method |
|---|---|---|---|---|---|---|
| zinc oxide 1314-13-2 | LC50 | > 5,7 mg/l | aerosol | 4 h | rat | OECD Guideline 403 (Acute Inhalation Toxicity) |

**Acute dermal toxicity:**

| Hazardous components CAS-No. | Value type | Value | Route of application | Exposure time | Species | Method |
|---|---|---|---|---|---|---|
| Calcium dihydroxide 1305-62-0 | LD50 | > 2.500 mg/kg | dermal | | rat | OECD Guideline 402 (Acute Dermal Toxicity) |

**Skin corrosion/irritation:**

| Hazardous components CAS-No. | Result | Exposure time | Species | Method |
|---|---|---|---|---|
| Calcium dihydroxide 1305-62-0 | irritating | 4 h | rabbit | OECD Guideline 404 (Acute Dermal Irritation / Corrosion) |
| zinc oxide 1314-13-2 | not irritating | | rabbit | not specified |

**Serious eye damage/irritation:**

| Hazardous components CAS-No. | Result | Exposure time | Species | Method |
|---|---|---|---|---|
| Calcium dihydroxide 1305-62-0 | Category 1 (irreversible effects on the eye) | | rabbit | OECD Guideline 405 (Acute Eye Irritation / Corrosion) |
| zinc oxide 1314-13-2 | slightly irritating | | rabbit | not specified |

**Respiratory or skin sensitization:**

| Hazardous components CAS-No. | Result | Test type | Species | Method |
|---|---|---|---|---|
| zinc oxide 1314-13-2 | not sensitising | Guinea pig maximisation test | guinea pig | OECD Guideline 406 (Skin Sensitisation) |

**Germ cell mutagenicity:**

| Hazardous components CAS-No. | Result | Type of study / Route of administration | Metabolic activation / Exposure time | Species | Method |
|---|---|---|---|---|---|
| Calcium dihydroxide 1305-62-0 | negative | bacterial reverse mutation assay (e.g Ames test) | with and without | | OECD Guideline 471 (Bacterial Reverse Mutation Assay) |
| zinc oxide 1314-13-2 | negative | bacterial reverse mutation assay (e.g Ames test) | with and without | | not specified |

## 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.

**12.1. Toxicity**

**Ecotoxicity:**
Do not empty into drains / surface water / ground water.
Harmful to aquatic life with long lasting effects.

| Hazardous components CAS-No. | Value type | Value | Acute Toxicity Study | Exposure time | Species | Method |
|---|---|---|---|---|---|---|
| Calcium dihydroxide 1305-62-0 | LC50 | 50,6 mg/l | Fish | 96 h | Oncorhynchus mykiss | OECD Guideline 203 (Fish, Acute Toxicity Test) |
| Calcium dihydroxide 1305-62-0 | EC50 | 49,1 mg/l | Daphnia | 48 h | Daphnia magna | OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) |
| Calcium dihydroxide 1305-62-0 | EC50 | 184,57 mg/l | Algae | 72 h | Pseudokirchnerella subcapitata | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| | NOEC | 48 mg/l | Algae | 72 h | Pseudokirchnerella subcapitata | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| Calcium dihydroxide 1305-62-0 | EC20 | 229,2 mg/l | Bacteria | 3 h | activated sludge of a predominantly domestic sewage | OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test) |
| Calcium dihydroxide 1305-62-0 | NOEC | 32 mg/l | chronic Daphnia | 14 d | Crangon septemspinosa | OECD Guideline 202 (Daphnia sp. Chronic Immobilisation Test) |
| zinc oxide 1314-13-2 | LC50 | > 1.000 mg/l | Fish | | Leuciscus idus | OECD Guideline 203 (Fish, Acute Toxicity Test) |
| zinc oxide 1314-13-2 | NOEC | 0,017 mg/l | Algae | 72 h | Selenastrum capricornutum (new name: Pseudokirchnerella subcapitata) | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| | EC50 | 0,17 mg/l | Algae | 72 h | Selenastrum capricornutum (new name: Pseudokirchnerella subcapitata) | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| zinc oxide 1314-13-2 | NOEC | 500 mg/l | Bacteria | | | not specified |

**12.2. Persistence and degradability**

**Persistence and Biodegradability:**
No data available.

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

**Mobility:**
Cured adhesives are immobile.

**Bioaccumulative potential:**
No data available.

**12.5. Results of PBT and vPvB assessment**

| Hazardous components CAS-No. | PBT/vPvB |
|---|---|
| Calcium dihydroxide 1305-62-0 | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria. |
| zinc oxide 1314-13-2 | 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.
Contribution of this product to waste is very insignificant in comparison to article in which it is used

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.
Disposal must be made according to official regulations.

Waste code

14 06 03 - other solvents and solvent mixtures

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/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:

H315 Causes skin irritation.
H318 Causes serious eye damage.
H335 May cause respiratory irritation.
H400 Very toxic to aquatic life.
H410 Very toxic 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.**