



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

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LOCTITE LB 8013 ANTI-SIEZE known as Metal Free N-7000
High Purity

SDS No. : 153754
V005.1

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

1.1. Product identifier

LOCTITE LB 8013 ANTI-SIEZE known as Metal Free N-7000 High Purity

Contains:

Calcium oxide

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. H318 Causes serious eye damage. H412 Harmful to aquatic life with long lasting effects. |
| Precautionary statement: Prevention | P273 Avoid release to the environment. P280 Wear eye protection/face protection. |
| Precautionary statement: Response | P302+P352 IF ON SKIN: Wash with plenty of water. 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.

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 CAS-No. | EC Number REACH-Reg No. | content | Classification |
|----------------------------------|---|---------------|--|
| Calcium oxide 1305-78-8 | 215-138-9 01-2119475325-36 | 10- 20 % | Skin Irrit. 2; Dermal H315 Eye Dam. 1 H318 STOT SE 3; Inhalation H335 |
| Butyl hydroxytoluene 128-37-0 | 204-881-4 01-2119480433-40 01-2119555270-46 01-2119565113-46 | 0,25- < 2,5 % | Aquatic Acute 1 H400 Aquatic Chronic 1 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.
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

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 skin and eye contact.

6.2. Environmental precautions

Do not let product enter drains.

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

Use only in well-ventilated areas.

Avoid skin and eye contact.

Prolonged or repeated skin contact should be avoided to minimise any risk of sensitisation.

See advice in section 8

Hygiene measures:

Good industrial hygiene practices should be observed.

Wash hands before work breaks and after finishing work.

Do not eat, drink or smoke while working.

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/m ³ | Value type | Short term exposure limit category / Remarks | Regulatory list |
|--|-----|-------------------|------------------------------|--|-----------------|
| Calcium oxide 1305-78-8 [CALCIUM OXIDE] | | 2 | Time Weighted Average (TWA): | | EH40 WEL |
| Graphite 7782-42-5 [GRAPHITE, INHALABLE DUST] | | 10 | Time Weighted Average (TWA): | | EH40 WEL |
| Graphite 7782-42-5 [GRAPHITE, RESPIRABLE DUST] | | 4 | Time Weighted Average (TWA): | | EH40 WEL |
| 2,6-di-tert-Butyl-p-cresol 128-37-0 [2,6-DI-TERT-BUTYL-P-CRESOL] | | 10 | Time Weighted Average (TWA): | | EH40 WEL |

Predicted No-Effect Concentration (PNEC):

| Name on list | Environmental Compartment | Exposure period | Value | | | | Remarks |
|--|------------------------------|-----------------|-------|-----|-------|---------------|---------|
| | | | mg/l | ppm | mg/kg | others | |
| Calcium oxide 1305-78-8 | aqua (freshwater) | | | | | 0,37 mg/L | |
| Calcium oxide 1305-78-8 | aqua (marine water) | | | | | 0,24 mg/L | |
| Calcium oxide 1305-78-8 | aqua (intermittent releases) | | | | | 0,37 mg/L | |
| Calcium oxide 1305-78-8 | STP | | | | | 2,27 mg/L | |
| Calcium oxide 1305-78-8 | soil | | | | | 817,4 mg/kg | |
| 2,6-Di-tert-butyl-p-cresol 128-37-0 | soil | | | | | 47,69 µg/kg | |
| 2,6-Di-tert-butyl-p-cresol 128-37-0 | STP | | | | | 0,17 mg/L | |
| 2,6-Di-tert-butyl-p-cresol 128-37-0 | sediment (freshwater) | | | | | 99,6 µg/kg | |
| 2,6-Di-tert-butyl-p-cresol 128-37-0 | oral | | | | | 8,33 mg/kg | |
| 2,6-Di-tert-butyl-p-cresol 128-37-0 | aqua (marine water) | | | | | 0,0199 µg/L | |
| 2,6-Di-tert-butyl-p-cresol 128-37-0 | aqua (intermittent releases) | | | | | 0,00199 mg/L | |
| 2,6-Di-tert-butyl-p-cresol 128-37-0 | aqua (freshwater) | | | | | 0,000199 mg/L | |
| 2,6-Di-tert-butyl-p-cresol 128-37-0 | sediment (marine water) | | | | | 9,96 µg/kg | |

Derived No-Effect Level (DNEL):

| Name on list | Application Area | Route of Exposure | Health Effect | Exposure Time | Value | Remarks |
|--|--------------------|-------------------|---|---------------|------------------------|---------|
| Calcium oxide 1305-78-8 | Workers | Inhalation | Acute/short term exposure - local effects | | 4 mg/m ³ | |
| Calcium oxide 1305-78-8 | Workers | Inhalation | Long term exposure - local effects | | 1 mg/m ³ | |
| Calcium oxide 1305-78-8 | general population | Inhalation | Acute/short term exposure - local effects | | 4 mg/m ³ | |
| Calcium oxide 1305-78-8 | general population | Inhalation | Long term exposure - local effects | | 1 mg/m ³ | |
| 2,6-Di-tert-butyl-p-cresol 128-37-0 | Workers | inhalation | Long term exposure - systemic effects | | 3,5 mg/m ³ | |
| 2,6-Di-tert-butyl-p-cresol 128-37-0 | Workers | Dermal | Long term exposure - systemic effects | | 0,5 mg/kg bw/day | |
| 2,6-Di-tert-butyl-p-cresol 128-37-0 | general population | inhalation | Long term exposure - systemic effects | | 0,86 mg/m ³ | |
| 2,6-Di-tert-butyl-p-cresol 128-37-0 | general population | Dermal | Long term exposure - systemic effects | | 0,25 mg/kg bw/day | |
| 2,6-Di-tert-butyl-p-cresol 128-37-0 | general population | oral | Long term exposure - systemic effects | | 0,25 mg/kg bw/day | |

Biological Exposure Indices:

None

8.2. Exposure controls:

Engineering controls:

Ensure adequate ventilation.

Respiratory protection:

Use only in well-ventilated areas.

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

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; \geq 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; \geq 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.

Skin protection:

Wear suitable protective clothing.

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

| | |
|--|------------------------------------|
| Appearance | paste paste grey |
| Odor | characteristic |
| Odour threshold | No data available / Not applicable |
| pH | No data available / Not applicable |
| Initial boiling point | No data available / Not applicable |
| Flash point | 218 °C (424.4 °F) |
| Decomposition temperature | No data available / Not applicable |
| Vapour pressure | No data available / Not applicable |
| Density (ρ) | 1,12 - 1,14 g/cm ³ |
| Bulk density | No data available / Not applicable |
| Viscosity | No data available / Not applicable |
| Viscosity (kinematic) | No data available / Not applicable |
| Explosive properties | No data available / Not applicable |
| Solubility (qualitative) (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 1272/2008/EC. 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 CAS-No. | Value type | Value | Route of application | Exposure time | Species | Method |
|----------------------------------|---------------|---------------|-------------------------|------------------|---------|---|
| Calcium oxide 1305-78-8 | LD50 | > 2.000 mg/kg | oral | | rat | OECD Guideline 425 (Acute Oral Toxicity: Up-and-Down Procedure) |
| Butyl hydroxytoluene 128-37-0 | LD50 | > 5.000 mg/kg | oral | | rat | OECD Guideline 401 (Acute Oral Toxicity) |

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.

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 oxide 1305-78-8 | LC50 | 1.070 mg/l | Fish | 96 h | Cyprinus carpio | OECD Guideline 203 (Fish, Acute Toxicity Test) |
| Butyl hydroxytoluene 128-37-0 | EC50 | 0,48 mg/l | Daphnia | 48 h | Daphnia magna | OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) |
| Butyl hydroxytoluene 128-37-0 | NOEC | 0,316 mg/l | chronic Daphnia | 21 d | Daphnia magna | OECD 211 (Daphnia magna, Reproduction Test) |

12.2. Persistence and degradability**Persistence and Biodegradability:**

The product is not biodegradable.

| Hazardous components CAS-No. | Result | Route of application | Degradability | Method |
|---------------------------------|--------|-------------------------|---------------|--------|
|---------------------------------|--------|-------------------------|---------------|--------|

| | | | | |
|----------------------------------|--|---------|-------|---|
| Butyl hydroxytoluene 128-37-0 | | aerobic | 4,5 % | OECD Guideline 301 C (Ready Biodegradability: Modified MITI Test (I)) |
|----------------------------------|--|---------|-------|---|

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

Cured adhesives are immobile.

Bioaccumulative potential:

No data available for the product.

| Hazardous components CAS-No. | LogKow | Bioconcentration factor (BCF) | Exposure time | Species | Temperature | Method |
|----------------------------------|--------|----------------------------------|------------------|-----------------|-------------|--|
| Butyl hydroxytoluene 128-37-0 | | 330 - 1.800 | 8 weeks | Cyprinus carpio | | OECD Guideline 305 C (Bioaccumulation: Test for the Degree of Bioconcentration in Fish) |
| Butyl hydroxytoluene 128-37-0 | 5,1 | | | | | |

12.5. Results of PBT and vPvB assessment

| Hazardous components CAS-No. | PBT/vPvB |
|----------------------------------|---|
| Calcium oxide 1305-78-8 | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria. |
| Butyl hydroxytoluene 128-37-0 | 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:

Cured adhesive: Dispose of as water insoluble non-toxic solid chemical in authorised landfill or incinerate under controlled conditions.

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

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. Packaging 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 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 < 3 %
(1999/13/EC)

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.

Label elements (DPD):

Xi - Irritant



Risk phrases:

- R41 Risk of serious damage to eyes.
- R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety phrases:

- S25 Avoid contact with eyes.
- S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- S39 Wear eye/face protection.
- S61 Avoid release to the environment. Refer to special instructions/Safety data sheets.

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.