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Safety Data Sheet

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

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1. Identification of the substance/preparation and of the company/undertaking

Product name LOCTITE LB 8013 ANTI-SIEZE known as Metal Free N-7000 High Purity
Other names LOCTITE N-7000 1LB EN

Suggestion application & limitation of use: Lubricant

Company information, address, tel No.:

Henkel Taiwan Ltd
5F., No. 132, Section 3, Minsheng East Road
23586 Songshan Dist., Taipei City
Taiwan

Phone: +886 (2) 8978-9788
Fax-no.: +886 (2) 2226-8699

Emergency phone No./Fax No.: Henkel Taiwan Ltd. Emergency No.:
+886-2-8978-9713 (24hr)

2. Hazards identification

Product hazard classification:

Hazard Class	Hazard Category
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 1

GHS label content:

Hazard pictogram:



Signal word: Danger

Hazard statement:
H315 Causes skin irritation.
H318 Causes serious eye damage.

Precautionary Statement (Prevention):
P264 Wash skin thoroughly after handling.
P280 Wear protective gloves, eye protection, and face protection.

Precautionary Statement (Response):
P302+P352 IF ON SKIN: Wash with plenty of water.
P305+P351+P338+P315 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to remove. Continue rinsing. Get immediate medical advice/attention.
P332+P313 If skin irritation occurs: Get medical advice/attention.
P362+P364 Take off contaminated clothing and wash it before reuse.

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Other hazards Not available.

3. Composition / information on ingredients

Pure substance/ Mixture: Mixture

Chemical properties:		
Traditional Chinese name /English name for the hazardous compositions:	**CAS-No.**	**Percentage/Conc.**
氧化鈣 Calcium oxide	1305-78-8	>= 10 - < 20 %
石墨 Graphite	7782-42-5	>= 10 - < 20 %

According to the "Regulations for the Labeling and Hazard Communication of Hazardous Chemicals", only hazardous ingredients are included in this table.

4. First aid measures

First aid measure for different exposure ways:

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.

Most serious symptoms and hazard effects: Not available.

Advise on first aid personnel protection: Not available.

For doctor information: Not available.

5. Fire fighting measures

Proper extinguishing agent: **Carbon dioxide, foam, powder**

Decomposition products in case of fire: Oxides of carbon, oxides of nitrogen, irritating organic vapors.
Sulphur oxides

Special fire-fighting procedure information: In case of fire, keep containers cool with water spray.

Special protect devices of fire-fighting team: Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear.

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6. Accidental release measures

Personal precautions: Avoid skin and eye contact.

Environmental precautions: Do not let product enter drains.

Clean method: 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.

7. Handling and storage

Safety 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

Storage: 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.

8. Exposure controls / personal protection

Engineering control: Ensure adequate ventilation.

Ingredient [Regulated substance]	Value type	ppm	mg/m^3	Form of exposure	Remarks
CALCIUM OXIDE 1305-78-8	Time Weighted Average (TWA):		5		TW OEL
CALCIUM OXIDE 1305-78-8	Short-term exposure limit:		10		TW OEL
NUISANCE DUST (TOTAL DUST) 7782-42-5	Time Weighted Average (TWA):		10	Total dust.	TW OEL
NUISANCE DUST (RESPIRABLE DUST) 7782-42-5	Time Weighted Average (TWA):		5	Respirable dust.	TW OEL
NUISANCE DUST (TOTAL DUST) 7782-42-5	Short-term exposure limit:		15	Total dust.	TW OEL
NUISANCE DUST (RESPIRABLE DUST) 7782-42-5	Short-term exposure limit:		10	Respirable dust.	TW OEL

Biological Exposure Indices: None

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Personal protect equipment:

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; >= 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.

Skin and body protection: Wear suitable protective clothing.

Hygiene control: Avoid contact with skin and eyes. Remove soiled or soaked clothing immediately. Wash off any contamination that gets onto the skin with plenty of water and soap, skin care.
Do not eat, drink, smoke or take snuff while working.
Wash thoroughly after handling.
Keep absolute tidiness at the working place.

9. Physical and chemical properties

Appearance:	paste grey
Odor:	characteristic
Odor threshold:	Not available.
pH:	Not available.
Melting point:	Not applicable, Product is a liquid
Boiling point/range:	Not available.
Density:	1.12 - 1.14 g/cm3 20 °C
Vapor pressure:	Not available.
Vapor density:	Not available.
Flammability (Solid/ Gaseous), then Flammability (Solid/ Gaseous):	non flammable
Flash point:	218 °CMeasure method:
Decomposition point:	Not available.
Explosion limit:	Not available.
Auto-ignition temperature:	Not available.
Solubility in water	Not available.
Octanol / water distribution coefficient:	Not available.
Evaporation rate:	Not available.

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10. Stability and reactivity

Stability: Stable under recommended storage conditions.

Possible hazardous reactions under specific conditions: Not available.

Incompatible materials: Reaction with strong acids.
Reacts with strong oxidants.

Condition to avoid: Stable

Hazardous decomposition material: Oxides of carbon.

11. Toxicological information

General toxicological information:
No laboratory animal data available.

Routes of exposure:

Refer to SDS section 4 of First aid measures

Symptoms:
Refer to SDS section 4 of First aid measures

Carcinogenicity

No data available.

Acute toxicity:

Hazardous components CAS-No.	Value type	Value	Route of application	Exposure time	Species	Method
Calcium oxide 1305-78-8	LD50 LC50 LD50	> 2,000 mg/kg > 6.04 mg/l > 2,500 mg/kg	oral inhalation dermal	4 h	rat rat rabbit	OECD Guideline 425 (Acute Oral Toxicity: Up-and-Down Procedure) OECD Guideline 436 (Acute Inhalation Toxicity: Acute Toxic Class (ATC) Method) OECD Guideline 402 (Acute Dermal Toxicity)
Graphite 7782-42-5	Acute toxicity estimate (ATE) LC50	> 5,000 mg/kg > 2 mg/l	oral inhalation	4 h	rat	Expert judgement OECD Guideline 403 (Acute Inhalation Toxicity)

Skin corrosion/irritation:

Hazardous components CAS-No.	Result	Exposure time	Species	Method
Calcium oxide 1305-78-8	irritating	4 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
Graphite 7782-42-5	not irritating	4 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

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Serious eye damage/irritation:

Hazardous components CAS-No.	Result	Exposure time	Species	Method
Calcium oxide 1305-78-8	Category 1 (irreversible effects on the eye)		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
Graphite 7782-42-5	not irritating		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)

Respiratory or skin sensitization:

Hazardous components CAS-No.	Result	Test type	Species	Method
Calcium oxide 1305-78-8	not sensitising	Mouse local lymphnode assay (LLNA)	mouse	OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)
Graphite 7782-42-5	not sensitising	Mouse local lymphnode assay (LLNA)	mouse	equivalent or similar to 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
Calcium oxide 1305-78-8	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
Graphite 7782-42-5	negative negative negative	bacterial reverse mutation assay (e.g Ames test) in vitro mammalian chromosome aberration test mammalian cell gene mutation assay	with and without with and without with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay) OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test) OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)

Repeated dose toxicity:

Hazardous components CAS-No.	Result	Route of application	Exposure time / Frequency of treatment	Species	Method
Calcium oxide 1305-78-8	NOAEL=1,000 mg/kg	oral: gavage	up to 48 consecutive daysdaily	rat	OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)
Graphite 7782-42-5	NOAEL=ca. 813 mg/kg	oral: feed	daily	rat	OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)

12. Ecological information

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Ecological toxic information: Do not empty into drains / surface water / ground water.

Toxicity:

Hazardous components CAS-No.	Value type	Value	Acute Toxicity Study	Exposure time	Species	Method
Calcium oxide 1305-78-8	LC50	50.6 mg/l	Fish	96 h	Oncorhynchus mykiss	OECD Guideline 203 (Fish, Acute Toxicity Test)
Calcium oxide 1305-78-8	EC50	49.1 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Calcium oxide 1305-78-8	EC50	184.57 mg/l	Algae	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
Calcium oxide 1305-78-8	NOEC	48 mg/l	Algae	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
Calcium oxide 1305-78-8	EC20	229.2 mg/l	Bacteria	3 h	activated sludge of a predominantly domestic sewage	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)
Graphite 7782-42-5	LC50	Toxicity > Water solubility	Fish	96 h	Danio rerio	OECD Guideline 203 (Fish, Acute Toxicity Test)
Graphite 7782-42-5	EC50	Toxicity > Water solubility	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Graphite 7782-42-5	EC50	Toxicity > Water solubility	Algae	72 h	Raphidocelis subcapitata (new name: Pseudokirchneriella subcapitata)	OECD Guideline 201 (Alga, Growth Inhibition Test)
Graphite 7782-42-5	NOEC	Toxicity > Water solubility	Algae	72 h	Raphidocelis subcapitata (new name: Pseudokirchneriella subcapitata)	OECD Guideline 201 (Alga, Growth Inhibition Test)
Graphite 7782-42-5	EC50	Toxicity > Water solubility	Bacteria	3 h	activated sludge of a predominantly domestic sewage	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)

13. Disposal considerations

Waste disposal of product: Waste disposal with the approval of the responsible local authority.

14. Transport information

Road transport ADR:
Not dangerous goods

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Railroad transport RID:
Not dangerous goods

Marine transport IMDG:
Not dangerous goods

Air transport IATA:
Not dangerous goods

15. Regulatory information

Taiwan Inventory of Existing Chemicals:	All components are listed or are exempt from Inventory of Existing Chemical Substances in Taiwan.

Applicable regulations:

Labor Safety and Health Act

Regulation of Labeling and Hazard Communication of Dangerous and Harmful Substances

Standards on Workplace Atmosphere of Dangerous and Hazardous Materials

Regulations Governing Road Traffic Safety

Methods and Facilities Standards for the Storage, Clearance and Disposal of Industrial Waste

16. Other information

Reference information:

This Safety Data Sheet has been generated in accordance with Taiwan law only. It provides information on the chemical product in the aspects of safety, health, environment, etc, recommending preventive and protective measures and countermeasures in case of emergency. The information contained herein does not constitute a guarantee concerning the properties of the material. No warranty or representation of any kind is given with respect to the substantive or export laws of any other jurisdiction or country. Please confirm that the information provided herein conforms to the substantive export or other law of any other jurisdiction prior to export. Please contact Henkel Product Safety and Regulatory Affairs for additional assistance.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.The data contained herein are furnished for information only and are believed to be reliable. However, Henkel Corporation and its affiliates (“Henkel”) does not assume responsibility for any results obtained by persons over whose methods Henkel has no control. It is the user’s responsibility to determine the suitability of Henkel’s products or any production methods mentioned herein for a particular purpose, and to adopt such precautions as may be advisable for the protection of property and persons against any hazards that may be involved in the handling and use of any Henkel’s products. In light of the foregoing, Henkel specifically disclaims all warranties, express or implied, including warranties of merchantability and fitness for a particular purpose, arising from sale or use of Henkel’s products. Henkel further disclaims any liability for consequential or incidental damages of any kind, including lost profits.

document editor: Product Safety & Regulatory Affairs for Henkel Greater China, phone number: +86 21 28918311

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