

(10671)

# Material Safety Data Sheet



Revision Number: 001.1

Issue date: 02/03/2015

## 1. PRODUCT AND COMPANY IDENTIFICATION

**APPROVED MATERIAL**  
JUL 22 2015  
MSDS # 10671  
APPROVED BY *[Signature]*

**Product name:** BONDERITE L-FG 31 GRAPHITE FORGING LUBRICANT ACHESON known as DELTAFOR GE31  
**Product use:** Lubricant

**IDH number:** 1224548

**Company address:**  
Henkel Canada Corporation  
2515 Meadowpine Boulevard  
Mississauga, Ontario L5N 6C3

**Region:** Canada  
**Contact information:**  
Telephone: 905.814.6511  
MEDICAL EMERGENCY Phone: Poison Control Center  
1-877-671-4608 (toll free) or 1-303-592-1711  
TRANSPORT EMERGENCY Phone: CHEMTREC  
1-800-424-9300 (toll free) or 1-703-527-3887  
Internet: www.henkelna.com

## 2. HAZARDS IDENTIFICATION

**EMERGENCY OVERVIEW**  
**Physical state:** Liquid  
**Color:** Black  
**Odor:** Ammonia  
**WHMIS hazard class:** D.2.B  
**WARNING:** CAUSES EYE, SKIN AND RESPIRATORY TRACT IRRITATION.

**Relevant routes of exposure:** Skin, Inhalation, Eyes

### Potential Health Effects

**Inhalation:** This product is irritating to the respiratory system.  
**Skin contact:** This product is irritating to the skin.  
**Eye contact:** This product is irritating to the eyes.  
**Ingestion:** Ingestion can cause gastrointestinal irritation, nausea, vomiting and diarrhea.

**Existing conditions aggravated by exposure:** Eye, skin, and respiratory disorders.

See Section 11 for additional toxicological information.

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous components	CAS NUMBER	%
Graphite	7782-42-5	10 - 30
Sodium silicate	1344-09-8	1 - 5

## 4. FIRST AID MEASURES

**Inhalation:** If inhaled, immediately remove the affected person to fresh air. If symptoms develop and persist, get medical attention.  
**Skin contact:** Immediately wash skin thoroughly with soap and water. If symptoms develop and persist, get medical attention.  
**Eye contact:** Immediately flush eyes with water for at least 15 minutes, while holding eyelids open. Seek medical attention at once.

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**Ingestion:** Get immediate medical attention. Do not induce vomiting.  
**Notes to physician:** Treat symptomatically and supportively.

## 5. FIRE FIGHTING MEASURES

**Flash point:** Not applicable  
**Autoignition temperature:** Not applicable  
**Flammable/Explosive limits - lower:** Not available.  
**Flammable/Explosive limits - upper:** Not available.  
**Extinguishing media:** Water spray (fog), foam, dry chemical or carbon dioxide.  
**Special firefighting procedures:** Wear full protective clothing. Wear self-contained breathing apparatus.  
**Unusual fire or explosion hazards:** Aqueous mixture, ignitable (see flashpoint), with no sustained combustibility - flame will extinguish after ignition. This product is an aqueous mixture which will not burn.  
**Hazardous combustion products:** Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons. Oxides of nitrogen.  
**Sensitivity to Mechanical Impact:** Not available.  
**Sensitivity to static discharge:** Not available.

## 6. ACCIDENTAL RELEASE MEASURES

Use personal protection recommended in Section 8, isolate the hazard area and deny entry to unnecessary and unprotected personnel.

**Environmental precautions:** Prevent further leakage or spillage if safe to do so. Wear appropriate protective equipment and clothing during clean-up. Do not allow product to enter sewer or waterways.

**Clean-up methods:** Absorb spill with inert material. Shovel material into appropriate container for disposal. Dispose of according to Federal, State and local governmental regulations.

## 7. HANDLING AND STORAGE

**Handling:** Wash thoroughly after handling. Avoid breathing vapors or mists of this product. Use only with adequate ventilation. For industrial use only.

**Storage:** For safe storage, store between 5.0 °C (41°F) and 30.0 °C (86°F)  
Keep container closed. Store in a cool, dry, well-ventilated area. Keep from freezing.

For information on product shelf life contact Henkel Canada Customer Service at 800-263-5043.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Employers should complete an assessment of all workplaces to determine the need for, and selection of, proper exposure controls and protective equipment for each task performed.

Hazardous components	ACGIH TLV	OSHA PEL	AIHA WEEL	OTHER
Graphite	2 mg/m3 TWA Respirable fraction.	5 mg/m3 PEL Respirable fraction. 15 mg/m3 PEL Total dust. 15 MPPCF TWA	None	None
Sodium silicate	None	None	None	None

<b>Engineering controls:</b>	Ventilation should effectively remove and prevent buildup of any vapor/mist/fume/dust generated from the handling of this product.
<b>Respiratory protection:</b>	If ventilation is not sufficient to effectively prevent buildup of aerosols, mists or vapors, appropriate NIOSH/MSHA respiratory protection must be provided.
<b>Eyeface protection:</b>	Wear safety glasses; chemical goggles (if splashing is possible).
<b>Skin protection:</b>	Wear suitable protective clothing.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical state:</b>	Liquid
<b>Color:</b>	Black
<b>Odor:</b>	Ammonia
<b>Odor threshold:</b>	Not available.
<b>pH:</b>	>= 10.8
<b>Vapor pressure:</b>	17.6 mm hg None
<b>Boiling point/range:</b>	>= 100 °C (>= 212°F)
<b>Melting point/ range:</b>	<= 0 °C (<= 32°F)
<b>Specific gravity:</b>	1.1
<b>Vapor density:</b>	Not available.
<b>Flash point:</b>	Not applicable
<b>Flammable/Explosive limits - lower:</b>	Not available.
<b>Flammable/Explosive limits - upper:</b>	Not available.
<b>Autoignition temperature:</b>	Not applicable
<b>Evaporation rate:</b>	Not applicable
<b>Solubility in water:</b>	Disperses in water as a suspension
<b>Partition coefficient (n-octanol/water):</b>	Not determined
<b>VOC content:</b>	Not applicable
<b>Viscosity:</b>	100 - 500 cp

## 10. STABILITY AND REACTIVITY

<b>Stability:</b>	Stable at normal conditions.
<b>Hazardous reactions:</b>	None under normal processing.
<b>Hazardous decomposition products:</b>	Thermal decomposition can lead to release of irritating gases and vapors.
<b>Incompatible materials:</b>	This product may react with strong acids or oxidizing agents.
<b>Conditions to avoid:</b>	Keep away from heat, ignition sources and incompatible materials. Freezing conditions.

## 11. TOXICOLOGICAL INFORMATION

<b>Toxicologically synergistic products:</b>	Not available.
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Refer to the following for Irritancy of Product, Sensitization to Product, Carcinogenicity, Reproductive Toxicity, Teratogenicity, and Mutagenicity.

Hazardous components	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)	ACGIH Carcinogen
Graphite	No	No	No	No
Sodium silicate	No	No	No	No

Hazardous components	LD50s and LC50s	Health Effects/Target Organs
Graphite	None	Lung
Sodium silicate	Oral LD50 (RAT) = 1,100 - 1,600 mg/kg Oral LD50 (RAT) = 1.1 g/kg	Corrosive, Irritant

## 12. ECOLOGICAL INFORMATION

Ecological information: Not available.

## 13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

Recommended method of disposal: Dispose of according to Federal, State and local governmental regulations.

## 14. TRANSPORT INFORMATION

### Canada Transportation of Dangerous Goods - Ground

Proper shipping name: Not regulated  
Hazard class or division: None  
Identification number: None  
Packing group: None

### International Air Transportation (ICAO/IATA)

Proper shipping name: Not regulated  
Hazard class or division: None  
Identification number: None  
Packing group: None

### Water Transportation (IMO/IMDG)

Proper shipping name: Not regulated  
Hazard class or division: None  
Identification number: None  
Packing group: None

## 15. REGULATORY INFORMATION

### Canada Regulatory Information

CEPA DSL/NDSL Status: All components are listed on or are exempt from listing on the Canadian Domestic Substances List.

### United States Regulatory Information

TSCA 8 (b) Inventory Status: All components are listed or are exempt from listing on the Toxic Substances Control Act Inventory.

## 16. OTHER INFORMATION

This material safety data sheet contains changes from the previous version in sections: This Material Safety Data Sheet contains changes from the previous version in Section(s): 1,4,5,7,8

**This product has been classified in accordance with the hazard criteria of the Controlled Products Regulation (CPR), and the MSDS contains all the information required by the CPR.**

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