# Safety Data Sheet



Revision Number: 001.5

Issue date: 04/11/2018

# **1. PRODUCT AND COMPANY IDENTIFICATION**

Product name:

Product type: **Restriction of Use:** Company address: Henkel Corporation One Henkel Way Rocky Hill, Connecticut 06067

**BONDERITE L-FG F 31 GRAPHITE** FORGING LUBRICANT ACHESON known as DELTAFORGE F-31 Lubricant None identified

**IDH number:** 

1224661

1224661 Item number: Region: **United States** Contact information: Telephone: +1 (860) 571-5100 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** NOT CLASSIFIED. READ ENTIRE SAFETY DATA SHEET.

HAZARD CLASS HAZARD CATEGORY None None

### PICTOGRAM(S)

None

#### **Precautionary Statements**

Prevention:	Not prescribed
Response:	Not prescribed
Storage:	Not prescribed
Disposal:	Not prescribed

Classification complies with OSHA Hazard Communication Standard (29 CFR 1910.1200) and is consistent with the provisions of the United Nations Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

See Section 11 for additional toxicological information.

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Component(s)	CAS Number	Percentage*
Graphite	7782-42-5	10 - 30

\* Exact percentages may vary or are trade secret. Concentration range is provided to assist users in providing appropriate protections.

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.	
Ingestion:	Get immediate medical attention. Do not induce vomiting.	
Symptoms:	See Section 11.	
Notes to physician:	Treat symptomatically and supportively.	

## 5. FIRE FIGHTING MEASURES

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:	Not a fire hazard. This product is an aqueous mixture which will not burn.
Hazardous combustion products:	Thermal decomposition can lead to release of irritating gases and vapors.

# 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:	Avoid contact with eyes, skin and clothing. Avoid breathing vapors or mists of this product. Use only with adequate ventilation.

 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. Storage within given temperature limit Outside temperature limits, the properties of the product will change. Protect from direct sunlight. Keep from freezing. Protect from freezing.

# 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 Component(s)	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
Engineering controls:	Provide local and general exhaust ventilation to effectively remove and prevent buildup of any vapors or mists generated from the handling of this product.			
Respiratory protection:	If ventilation is not sufficient to effectively prevent buildup of aerosols, mists vapors, appropriate NIOSH/MSHA respiratory protection must be provided.			
Eye/face protection:	Wear safety glasses; chemical goggles (if splashing is possible).		oossible).	
Skin protection:	Suitable	e protective clothing		

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:
Color:
Odor:
Odor threshold:
pH:
Vapor pressure:
Boiling point/range:
Melting point/ range:
Specific gravity:
Vapor density:
Flash point:
Flammable/Explosive limits - lower:
Flammable/Explosive limits - upper:
Autoignition temperature:
Flammability:
Evaporation rate:
Solubility in water:
Partition coefficient (n-octanol/water):
VOC content:
Viscosity:
Decomposition temperature:

Liquid Black Ammonia Not available. 11.0 - 11.5 Not determined > 100 °C (> 212°F) <= 0 °C (<= 32°F) 1.05 - 1.15 Not available. Not applicable Not available. Not available. Not applicable Not applicable Not available. Disperses in water as a suspension Not determined Not applicable 700 - 1,000 mPa.s Not available.

# **10. STABILITY AND REACTIVITY**

Stability:	Stable at normal conditions.
Hazardous reactions:	None under normal processing.
Hazardous decomposition products:	Thermal decomposition can lead to release of irritating gases and vapors.
Incompatible materials:	This product may react with strong acids or oxidizing agents.
Reactivity:	Not available.
Conditions to avoid:	Avoid excessive heat and ignition sources. Freezing conditions.

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# **11. TOXICOLOGICAL INFORMATION**

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

#### Potential Health Effects/Symptoms

Inhalation:	May cause respiratory tract irritation.
Skin contact:	This product may cause irritation to the skin.
Eye contact:	This product may cause irritation to the eyes.
Ingestion:	Ingestion can cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Hazardous Component(s)	LD50s and LC50s		Immediate and Delayed Health Effects	
Graphite	None		Lung	
Hazardous Component(s)	NTP Carcinogen	IARC Carcinogen		OSHA Carcinogen (Specifically Regulated)
Graphite	No	N	0	No

# **12. ECOLOGICAL INFORMATION**

**Ecological information:** 

Not available.

#### **DISPOSAL CONSIDERATIONS** 13.

### Information provided is for unused product only.

Recommended method of disposal:

Dispose of according to Federal, State and local governmental regulations.

Hazardous waste number:

Material, if discarded, is not expected to be a characteristic hazardous waste under RCRA. Wastes must be tested using methods described in 40 CFR Part 261 to determine if it meets applicable definitions of hazardous wastes.

## **14. TRANSPORT INFORMATION**

The transport information provided in this section only applies to the material/formulation itself, and is not specific to any package/configuration.

U.S. Department of Transportation Ground (4 Proper shipping name: Hazard class or division: Identification number: Packing group:	<b>9 CFR)</b> Not regulated None None 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

United States Regulatory Information

	16. OTHER INFORMATION
CEPA DSL/NDSL Status:	All components are listed on or are exempt from listing on the Canadian Domestic Substances List.
Canada Regulatory Information	
California Proposition 65:	No California Proposition 65 listed chemicals are known to be present.
CERCLA/SARA Section 302 EHS: CERCLA/SARA Section 311/312: CERCLA/SARA Section 313:	None above reporting de minimis. Immediate Health None above reporting de minimis.
TSCA 12 (b) Export Notification:	None above reporting de minimis
TSCA 8 (b) Inventory Status:	All components are listed or are exempt from listing on the Toxic Substances Control Act Inventory.

This safety data sheet contains changes from the previous version in sections: New Safety Data Sheet format.

Prepared by: Regulatory Affairs

**Issue date:** 04/11/2018

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