



**SAFETY DATA SHEET**  
**WATER BASED GRAPHITE COATING**

**SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION**

**Product Name:** Water Based Graphite Coating

**Other Names:** Bonderite L-FG 137 Graphite Forging Lubricant Acheson  
DAG 137

**Product Code:** Coating / Lubricant

**Primary Use:** A water based graphite coating formulated for lubrication and a release film for high temperature applications. Film protects against galling, soldering, and seizing.

**Manufacturer:** Henkel Corporation  
One Henkel Way  
Rocky Hill, Connecticut

**Distributor:** CeraMaterials  
525 Silver Lake Rd  
Dingmans Ferry, PA 18328  
Emergency Contact: Jerry Weinstein  
Product Stewardship: 518.701.6722  
E-Mail: [sales@ceramaterials.com](mailto:sales@ceramaterials.com)  
[www.ceramaterials.com](http://www.ceramaterials.com)

**24hr Emergency Contact Info:**

Poison Control Center:	877.671.4608
CHEMTREC US Transportation:	800.424.9300
CHEMTREC International Transportation:	703.741.5500



## **SECTION 2 - HAZARDS IDENTIFICATION**

**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).**

### **Emergency Overview:**

Physical Appearance: Medium Thick Liquid

Immediate Concerns: May cause an allergic skin reaction.

### **Signal word, symbols, hazard and precautionary statements:**

#### **Hazard Pictogram**



#### **Signal Word**

Warning

#### **Hazard Class**

Skin Sensitization: Category 1

#### **Precautionary Statements**

**Prevention:** Avoid breathing vapors, mist, or spray. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves.

**Response:** If on skin: Wash with plenty of water.  
If skin irritation or rash occurs: Get medical attention.  
Wash contaminated clothing before reuse.

**Storage:** Not prescribed.

**Disposal:** Dispose of contents and/or container according to Federal, State/Provincial and local governmental regulations.

**Hazards not otherwise classified:** Not available.

**Please see Section 11 for additional Toxicological Information**



**SECTION 3 - COMPOSITION**

<u>Chemical &amp; Common Name</u>	<u>CAS#</u>	<u>Percentage*</u>
Graphite	7782-42-5	10 - 30
Thickener	Proprietary	1 - 5
Triazine compound	Proprietary	0.1 - 1

\* Exact % is a trade secret. Concentration range is provided to assist users in providing appropriate protections.

**SECTION 4 - FIRST AID MEASURES**

**Description of necessary measures, subdivided according to the different routes of exposure, i.e., inhalation, skin, and eye contact, and ingestion.**

Eyes:

In case of eye contact immediately flush abundantly with water for at least 15 minutes; have eye bath available if possible. Do not rub eyes. Get medical attention, if irritation persists.

Skin:

In case of skin contact, wash affected areas with soap and water. If symptoms develop and persist, get medical attention.

Ingestion:

Get immediate medical attention. Do not induce vomiting unless instructed to do so by a poison center or physician.

Inhalation:

If mist or vapor of this product is inhaled, move exposed person to fresh air immediately. If symptoms develop and persist, get medical attention.

Symptoms:

See Section 11

**SECTION 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.**

This product is an aqueous mixture which will not burn.

**Hazardous combustion products.**

Irritating and toxic gases or fumes may be released during a fire.

**SECTION 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.

**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.

**SECTION 7 - HANDLING AND STORAGE**

**Handling.**

Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Avoid breathing vapors or mists of this product. Use only with adequate ventilation. Do not take internally. For industrial use only.

**Storage.**

For safe storage, store between 5°C (41°F) and 30°C (86°F). Keep container tightly closed and in a cool, well-ventilated place away from incompatible materials. Keep away from heat, spark and flame. Keep from freezing. Product shelf life is one year under original seal.

**SECTION 8 - EXPOSURE CONTROLS AND 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.**



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<b>Component(s)</b>	<b><u>ACGIH TLV</u></b>	<b><u>OSHA PEL</u></b>	<b><u>AIHA WEEL</u></b>	<b><u>Other</u></b>
Graphite	2 mg/m <sup>3</sup> TWA, Respirable fraction	5 mg/m <sup>3</sup> PEL, Respirable fraction. 15mg/m <sup>3</sup> PEL Total dust 15 MPPCF TWA	None	None
Thickener	None	None	None	None
Triazine compound	None	None	None	None

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**Engineering controls.**

Use only with adequate ventilation. Provide local and general exhaust ventilation to effectively remove and prevent buildup of any vapors or mists generated from the handling of this product.

**Individual protection measures, such as personal protective equipment.****Eyes and face:**

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. As necessary, wear chemical goggles or safety glasses with side shields.

**Skin:**

Wear impervious gloves for prolonged contact. Use of impervious apron and boots are recommended.

**Respiratory:**

If ventilation is not sufficient to effectively prevent buildup of aerosols, mists or vapors, appropriate NIOSH/MSHA respiratory protection must be provided.

**Protective Clothing:**

Long sleeves, long trousers to protect skin from contact.

**Work hygienic practices:**

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Ensure that eyewash stations and safety showers are close to the workstation, if available.



SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Table with 4 columns: Property Name, Property Value, Property Name, Property Value. Includes Physical state, Appearance, Odor, pH, Solubility, Boiling point, Melting point, Flammability, and Specific gravity, Vapor Density, Flash point, Autoignition Temperature, Evaporation rate, VOC content, Viscosity, Decomposition Temperature, Vapor pressure, and Partition coefficient.

SECTION 10 - STABILITY AND REACTIVITY

Table with 2 columns: Property Name, Property Value. Includes Stability, Hazardous reactions, Hazardous decomposition products, Incompatible materials, Reactivity, and Conditions to avoid.

SECTION 11 - TOXICOLOGICAL INFORMATION

Table with 6 columns: Component(s), LD50 | LC50, Immediate / Delayed Health Effects, NTP Carcinogen, IARC Carcinogen, OSHA Carcinogen (Specifically Regulated). Rows include Graphite, Thickener, and Triazine.

Relevant routes of exposure: Skin, Inhalation, Eyes



**Potential Health Effects / Symptoms:**

- Inhalation: This product is irritating to the respiratory system.
- Skin Contact: This product is irritating to the skin. May cause allergic skin reaction in susceptible individuals
- Eye Contact: This product is irritating to the eyes.
- Ingestion: Ingestion can cause gastrointestinal irritation, nausea, vomiting and diarrhea

**SECTION 12 - ECOLOGICAL INFORMATION**

**Environmental Information:** Not available

**SECTION 13 - DISPOSAL CONSIDERATIONS**

**Information provided is for unused product only.**

Any processing, use, alteration or chemical additions to the product, as purchased, may alter the disposal requirements. Under Federal regulations, it is the waste generator's responsibility to properly characterize a waste material, to determine if it is a "hazardous" waste. Check local, regional, state or provincial regulations to identify all applicable disposable requirements in your jurisdiction.

**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.

**SECTION 14 - TRANSPORT INFORMATION**

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

**U.S. Department of Transportation Ground (49 CFR)**

- Proper Shipping Name:** Not regulated
- Hazard class or division:** None
- Identification number:** None
- Packaging group:** None



**International Air Transportation (ICAO / IATA):**

**Proper Shipping Name:** Not regulated

**Hazard class or division:** None

**Identification number:** None

**Packaging group:** None

**Water Transportation (IMO / IMDG):**

**Proper Shipping Name:** Not regulated

**Hazard class or division:** None

**Identification number:** None

**SECTION 15 - REGULATORY INFORMATION**

**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.

**TSCA 12 (b) Inventory Status:** None above reporting de minimis

**CERCLA/SARA Section 302 EHS:** None above reporting de minimis

**CERCLA/SARA Section 311/312:** Immediate Health, Delayed Health

**CERCLA/SARA Section 313:** None above reporting de minimis

**California Proposition 65:** This product contains a chemical known to the State of California to cause birth defects or other reproductive harm. This product contains a chemical known to the State of California to cause cancer.

**Canadian Regulatory Information:**

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

**SECTION 16 - OTHER INFORMATION**

Effective Date: January 1, 2016      Revision Date: 1/14/2020  
Revision Summary: Company Information updated.      SDS Prepared By: CeraMaterials

**Disclaimer:** The information provided herein was believed by CeraMaterials to be accurate at the time of preparation or prepared from sources believe to be reliable, but it is the responsibility of the user to investigate and understand other pertinent sources of information, to comply with all laws and procedures applicable to the safe handling and use of this product and to determine the suitability of the product for its intended use.