

Revision Number: 004.1 Issue date: 03/27/2019

# 1. PRODUCT AND COMPANY IDENTIFICATION

Product name: BONDERITE L-FG 4258 GRAPHITE IDH number:

FORGING LUBRICANT ACHESON

known as P3 FORGE 4258

Product type/use: Lubricant

Restriction of Use: None identified

Company address: Henkel Corporation

One Henkel Way Rocky Hill, Connecticut 06067

ne identified Region: United States
Contact information:

Telephone: +1 (860) 571-5100

MEDICAL EMERGENCY Phone: Poison Control Center

922292

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

WARNING: CAUSES SKIN IRRITATION.

CAUSES SERIOUS EYE IRRITATION.

SUSPECTED OF DAMAGING FERTILITY OR THE UNBORN CHILD.

| HAZARD CLASS          | HAZARD CATEGORY |
|-----------------------|-----------------|
| SKIN IRRITATION       | 2               |
| EYE IRRITATION        | 2A              |
| REPRODUCTIVE TOXICITY | 2               |

#### PICTOGRAM(S)



#### **Precautionary Statements**

**Prevention:** Obtain special instructions before use. Do not handle until all safety precautions have been

read and understood. Wash affected area thoroughly after handling. Wear protective gloves,

clothing, eye and face protection.

**Response:** IF ON SKIN: Wash with plenty of water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF exposed or

concerned: Get medical attention. If skin irritation occurs: Get medical attention. If eye irritation

persists: Get medical attention. Take off contaminated clothing.

Storage: Store locked up.

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

governmental regulations.

2 % of the mixture consists of ingredient(s) of unknown acute toxicity.

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.

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**FORGE 4258** 

# 3. COMPOSITION / INFORMATION ON INGREDIENTS

| Hazardous Component(s) | CAS Number | Percentage* |
|------------------------|------------|-------------|
| Graphite               | 7782-42-5  | 10 - 30     |
| Borax                  | 1330-43-4  | 1 - 5       |
| Phosphoric acid        | 7664-38-2  | 1 - 5       |

<sup>\*</sup> 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 symptoms are experienced, remove source of contamination or move victim

to fresh air. If symptoms develop and persist, get medical attention.

Skin contact: For skin contact flush with large amounts of water. Obtain medical attention if

irritation persists.

Eye contact: Immediately flush eyes with plenty of water for at least 15 minutes. If

symptoms develop and persist, get medical attention.

Ingestion: Get immediate medical attention. DO NOT induce vomiting unless directed to

do so by medical personnel. Give one to two glasses of water or milk. Never

give anything by mouth to a victim who is unconscious or is having convulsions.

Symptoms: See Section 11.

#### 5. FIRE FIGHTING MEASURES

**Extinguishing media:** Use media appropriate for surrounding material.

Special firefighting procedures: Wear self-contained breathing apparatus. Wear full protective clothing.

Unusual fire or explosion hazards: 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 personal

protective equipment. Surfaces may become slippery after spillage.

Clean-up methods: Collect spilled material with an inert absorbent such as sand or vermiculite.

Place in properly labeled closed container. Flush area with water to remove trace residue. Dispose of according to Federal, State and local governmental

regulations.

# 7. HANDLING AND STORAGE

Handling: Avoid contact with eyes, skin and clothing. Provide adequate ventilation. Avoid

breathing vapors or mists of this product. Wash thoroughly after handling.

**Storage:** For safe storage, store at or above 40  $^{\circ}$ F (4.4  $^{\circ}$ C)

Keep the container tightly closed and in a cool, well-ventilated place. Thaw

and mix thoroughly if frozen.

For information on product shelf life, please review labels on container or check the Technical Data Sheet.

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# 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<br>Respirable fraction.                                       | 5 mg/m3 PEL<br>Respirable fraction.<br>15 mg/m3 PEL Total<br>dust.<br>15 MPPCF TWA | None      | None  |
| Borax                  | 2 mg/m3 TWA<br>Inhalable fraction.<br>6 mg/m3 STEL<br>Inhalable fraction. | None   | None      | None  |
| Phosphoric acid        | 3 mg/m3 STEL<br>1 mg/m3 TWA   | 1 mg/m3 PEL  | 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 or

vapors, appropriate NIOSH/MSHA respiratory protection must be provided.

**Eye/face protection:** Wear chemical goggles; face shield (if splashing is possible).

Skin protection: Chemical resistant, impermeable gloves. Use of impervious apron and boots

are recommended.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:LiquidColor:BlackOdor:Mild

Odor threshold:Not available.pH:6.2 - 6.4Vapor pressure:Not determinedBoiling point/range:212 °F (100°C)Melting point/ range:Not determined

**Specific gravity:** 1.26 - 1.29 at 25 °C (77°F)

Vapor density: Not determined Flash point: Not applicable Not applicable Flammable/Explosive limits - lower: Flammable/Explosive limits - upper: Not applicable Autoignition temperature: Not applicable Flammability: Not applicable **Evaporation rate:** Not determined Solubility in water: Complete Partition coefficient (n-octanol/water): Not determined **VOC** content: Not available. Viscosity: Not available. **Decomposition temperature:** Not available.

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# 10. STABILITY AND REACTIVITY

Stability: Stable at normal conditions.

Hazardous reactions: None under normal processing.

Hazardous decomposition

products:

Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low

molecular weight hydrocarbons.

**Incompatible materials:** This product may react with strong acids or oxidizing agents.

Reactivity: Not available.

**Conditions to avoid:** Store away from incompatible materials.

# 11. TOXICOLOGICAL INFORMATION

Relevant routes of exposure: Skin, Inhalation, Eyes

#### 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 of this product may cause nausea, vomiting and diarrhea.

| Hazardous Component(s) | LD50s and LC50s   | Immediate and Delayed Health Effects              |
|------------------------|---|---|
| Graphite               | None  | Lung  |
| Borax                  | Oral LD50 (Rat) = 2,660 mg/kg<br>Dermal LD50 (Rabbit) = > 1,055 mg/kg | Irritant, Skin, Less weight gain and food intake. |
| Phosphoric acid        | Oral LD50 (Rat) = 1,530 mg/kg<br>Dermal LD50 (Rabbit) = 2,740 mg/kg   | Irritant, Corrosive                               |

| Hazardous Component(s) | NTP Carcinogen | IARC Carcinogen | OSHA Carcinogen<br>(Specifically Regulated) |
|------------------------|----------------|-----------------|---|
| Graphite               | No             | No              | No  |
| Borax                  | No             | No              | No  |
| Phosphoric acid        | No             | No              | No  |

#### 12. ECOLOGICAL INFORMATION

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

#### 13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

Recommended method of disposal: Follow all local, state, federal and provincial regulations for disposal.

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 (49 CFR)

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Proper shipping name: Not regulated

Hazard class or division:
Identification number:
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:
Identification number:
Packing group:
None

# 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) Export Notification: None above reporting de minimis

CERCLA/SARA Section 302 EHS:
CERCLA/SARA Section 311/312:
CERCLA/SARA Section 313:

None above reporting de minimis.
None above reporting de minimis.

California Proposition 65: This product contains a chemical known in the State of California to cause cancer. This

product contains a chemical known to the State of California to cause birth defects or other

reproductive harm.

**Canada Regulatory Information** 

IDH number: 922292

CEPA DSL/NDSL Status: Contains one or more components listed on the Non-Domestic Substances List. All other

components are listed on or are exempt from listing on the Domestic Substances List. Components listed on the NDSL must be tracked by all Canadian Importers of Record as required by Environment Canada. They may be imported into Canada in limited quantities.

Please contact Regulatory Affairs for additional details.

#### 16. OTHER INFORMATION

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

Prepared by: Regulatory Affairs

**Issue date:** 03/27/2019

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