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**Revision Number: 002.1**


**Issue date: 01/19/2012**

### 1. PRODUCT AND COMPANY IDENTIFICATION

<b>Product name:</b>	<b>BONDERITE L-GP 156 GRAPHITE DISPERSION IN SOLVENT ACHESON known as DAG156</b>	<b>IDH number:</b>	1224947
<b>Product type:</b>	Dry film lubricant	<b>Item number:</b>	1224947
<b>Company address:</b>	Henkel Corporation 32100 Stephenson Highway Madison Heights, MI 48071	<b>Region:</b>	United States
		<b>Contact information:</b>	Telephone: 248.583.9300 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

<b>Physical state:</b>	Liquid	<b>HMIS:</b>	
<b>Color:</b>	Black	<b>HEALTH:</b>	2
<b>Odor:</b>	Alcohol	<b>FLAMMABILITY:</b>	3
		<b>PHYSICAL HAZARD:</b>	0
		<b>Personal Protection:</b>	See MSDS Section 8

**DANGER: FLAMMABLE!**  
**CAUSES EYE, SKIN AND RESPIRATORY TRACT IRRITATION.**  
**HARMFUL IF SWALLOWED, ABSORBED THROUGH SKIN OR INHALED.**  
**MAY CAUSE CENTRAL NERVOUS SYSTEM EFFECTS.**

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

#### Potential Health Effects

**Inhalation:** This product is irritating to the respiratory system. Excessive inhalation of this material causes headache, dizziness, nausea and incoordination.

**Skin contact:** Prolonged or repeated skin contact may result in redness, burning sensation or dermatitis. A component in this product may be absorbed through the skin in harmful amounts.

**Eye contact:** This product is severely irritating to the eyes and may cause irreversible damage including burns and blindness.

**Ingestion:** Small amounts of this product, if aspirated into the lungs, may cause mild to severe pulmonary injury. May be harmful if swallowed. Ingestion can cause gastrointestinal irritation, nausea, vomiting and diarrhea. May cause dizziness, incoordination, headache, nausea, and vomiting.

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

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

**See Section 11 for additional toxicological information.**

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous components	CAS NUMBER	%
2-Propanol	67-63-0	60 - 100
Graphite	7782-42-5	1 - 5

#### 4. FIRST AID MEASURES

<b>Inhalation:</b>	If mist or vapor of this product is inhaled, remove person immediately to fresh air. Seek medical attention if symptoms develop or persist.
<b>Skin contact:</b>	Immediately wash skin thoroughly with soap and water. If symptoms develop and persist, get medical attention.
<b>Eye contact:</b>	In case of contact with the eyes, rinse immediately with plenty of water for 15 minutes, and seek immediate medical attention.
<b>Ingestion:</b>	Get immediate medical attention. Do not induce vomiting. Give one to two glasses of water or milk. Never give anything by mouth to a victim who is unconscious or is having convulsions.
<b>Notes to physician:</b>	This material, if aspirated into the lungs, may cause lipid pneumonitis. Treat affected person appropriately.

#### 5. FIRE FIGHTING MEASURES

<b>Flash point:</b>	11.1 °C (51.98 °F) Tagliabue closed cup
<b>Autoignition temperature:</b>	> 398 °C (> 748.4 °F)
<b>Flammable/Explosive limits - lower:</b>	2 %
<b>Flammable/Explosive limits - upper:</b>	12 %
<b>Extinguishing media:</b>	Water spray (fog), foam, dry chemical or carbon dioxide.
<b>Special firefighting procedures:</b>	Wear full protective clothing. Wear self-contained breathing apparatus.
<b>Unusual fire or explosion hazards:</b>	DANGEROUS when exposed to heat or flame. This material can be ignited by flame or spark under all normal atmospheric conditions. Vapors are heavier than air and may travel to ignition sources and flash back.
<b>Hazardous combustion products:</b>	Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.

#### 6. ACCIDENTAL RELEASE MEASURES

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

<b>Environmental precautions:</b>	Prevent further leakage or spillage if safe to do so. Remove all sources of ignition. Wear appropriate protective equipment and clothing during clean-up.
<b>Clean-up methods:</b>	Collect spilled material with an inert absorbent such as sand or vermiculite. Place in properly labeled closed container. Dispose of according to Federal, State and local governmental regulations.

#### 7. HANDLING AND STORAGE

<b>Handling:</b>	Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Avoid breathing vapors or mists of this product. Do not take internally. For industrial use only. Keep away from heat, spark and flame. Ground and bond all equipment as required (when transferring products).
<b>Storage:</b>	For safe storage, store at or below < 90 °F (< 32.2 °C) Keep container tightly closed and in a cool, well-ventilated place away from incompatible materials. Remove all sources of ignition.

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

## 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
2-Propanol	200 ppm TWA 400 ppm STEL	400 ppm (980 mg/m <sup>3</sup> ) TWA	None	None
Graphite	2 mg/m <sup>3</sup> TWA Respirable fraction.	5 mg/m <sup>3</sup> TWA Respirable fraction. 15 mg/m <sup>3</sup> TWA 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 or vapors, appropriate NIOSH/MSHA respiratory protection must be provided.

**Eye/face protection:**

Wear chemical goggles; face shield (if splashing is possible).

**Skin protection:**

Wear impervious gloves for prolonged contact. Gloves should be tested to determine suitability for prolonged contact. Use of impervious apron and boots are recommended.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical state:</b>	Liquid
<b>Color:</b>	Black
<b>Odor:</b>	Alcohol
<b>Odor threshold:</b>	Not available.
<b>pH:</b>	Not applicable
<b>Vapor pressure:</b>	31.2 mm hg calculated
<b>Boiling point/range:</b>	> 82 °C (> 179.6 °F) None
<b>Melting point/ range:</b>	< -89 °C (< -128.2 °F) None
<b>Specific gravity:</b>	0.780 - 0.804
<b>Vapor density:</b>	Not determined
<b>Flash point:</b>	11.1 °C (51.98 °F) Tagliabue closed cup
<b>Flammable/Explosive limits - lower:</b>	2 %
<b>Flammable/Explosive limits - upper:</b>	12 %
<b>Autoignition temperature:</b>	> 398 °C (> 748.4 °F)
<b>Evaporation rate:</b>	1
<b>Solubility in water:</b>	Disperses in water as a suspension
<b>Partition coefficient (n-octanol/water):</b>	Not determined
<b>VOC content:</b>	766 g/l

## 10. STABILITY AND REACTIVITY

<b>Stability:</b>	Stable at normal conditions.
<b>Hazardous reactions:</b>	None under normal processing.
<b>Hazardous decomposition products:</b>	Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.
<b>Incompatible materials:</b>	This product may react with strong oxidizing agents.
<b>Conditions to avoid:</b>	Heat, flames, sparks and other sources of ignition.

## 11. TOXICOLOGICAL INFORMATION

Hazardous components	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
2-Propanol	No	No	No
Graphite	No	No	No

Hazardous components	Health Effects/Target Organs
2-Propanol	Allergen, Blood, Brain, Central nervous system, Irritant, Kidney, Liver, Spleen
Graphite	Lung

## 12. ECOLOGICAL INFORMATION

Ecological information: Not available.

## 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: If discarded, this product is considered a RCRA ignitable waste, D001.

## 14. TRANSPORT INFORMATION

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

Proper shipping name: Paint  
Hazard class or division: 3  
Identification number: UN 1263  
Packing group: II

### International Air Transportation (ICAO/IATA)

Proper shipping name: Paint  
Hazard class or division: 3  
Identification number: UN 1263  
Packing group: II

### Water Transportation (IMO/IMDG)

Proper shipping name: PAINT  
Hazard class or division: 3  
Identification number: UN 1263  
Packing group: II

## 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 minimus

CERCLA/SARA Section 302 EHS: None above reporting de minimus  
CERCLA/SARA Section 311/312: Immediate Health, Fire  
CERCLA/SARA 313: None above reporting de minimus

California Proposition 65: No California Proposition 65 listed chemicals are known to be present.

### Canada Regulatory Information

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

WHMIS hazard class:

B.2, D.2.B

## 16. OTHER INFORMATION

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

**Prepared by:** Jennifer Mckay, Regulatory Affairs Specialist

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