# **Safety Data Sheet**

Distributed By: Ladd Research

3 Ewing Place

Essex Junction, VT 05452 Tel: (802) 658-4961 Fax: (802) 660-8859

email: sales@laddresearch.com Web: www.laddresearch.com



Issue date: 05/04/2023

## 1. PRODUCT AND COMPANY IDENTIFICATION

Product name: BONDERITE L-GP G AEROSOLIZED IDH number: 1290884

GRAPHITE LUBRICANT ACHESON

known as Aerodag G

**Product type:** Dry film lubricant **Restriction of Use:** None identified

Company address:
Henkel Corporation

One Henkel Way

Rocky Hill, Connecticut 06067

Region: United States

Region: Ur Contact information:

Telephone: (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** 

WARNING: FLAMMABLE AEROSOL.

CAUSES SKIN IRRITATION.

MAY CAUSE AN ALLERGIC SKIN REACTION.

CAUSES SERIOUS EYE IRRITATION.

MAY CAUSE DROWSINESS OR DIZZINESS.

HAZARD CLASS	HAZARD CATEGORY
FLAMMABLE AEROSOL.	2
SKIN IRRITATION	2
EYE IRRITATION	2A
SKIN SENSITIZATION	1
SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE	3





#### **Precautionary Statements**

Prevention: Keep away from heat, sparks, open flames, hot surfaces - no smoking. Do not spray on an

open flame or other ignition source. Do not pierce or burn, even after use. Avoid breathing mist or spray. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Contaminated work clothing should not be allowed out of the workplace. Wear eye and face

protection. Wear protective gloves.

Response: IF ON SKIN: Wash with plenty of soap and water. IF INHALED: Remove person to fresh air and

keep comfortable for breathing.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to remove. Continue rinsing. Call a poison control center or physician if you feel unwell. If skin irritation or rash occurs: Get medical attention. If eye irritation persists: Get

medical attention. Take off contaminated clothing.

Storage: Store in a well-ventilated place. Keep container tightly closed. Store locked up. Protect from

sunlight. Do not expose to temperatures exceeding 50°C/122°F.

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

governmental regulations.

IDH number: 1290884 Product name: BONDERITE L-GP G AEROSOLIZED GRAPHITE LUBRICANT ACHESON known as

Aerodag G

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*	
n-Heptane	142-82-5	30 - 60	
2-Propanol	67-63-0	10 - 30	
Propane	74-98-6	10 - 30	
Butane	106-97-8	1 - 5	
Methylcyclohexane	108-87-2	1 - 5	
Octane	111-65-9	1 - 5	
Graphite	7782-42-5	1 - 5	

<sup>\*</sup> Exact percentage is a trade secret. Concentration range is provided to assist users in providing appropriate protections.

## 4. FIRST AID MEASURES

Inhalation: If mist or vapor of this product is inhaled, remove person immediately to fresh

air. Seek medical attention if symptoms develop or persist.

Skin contact: Immediately wash skin thoroughly with soap and water. Obtain medical

attention if irritation persists.

Eye contact: In case of contact with eyes, rinse immediately with plenty of water and seek

medical advice.

**Ingestion:** Get immediate medical attention. Do not induce vomiting.

Symptoms: See Section 11.

IDH number: 1290884

Notes to physician: This material, if aspirated into the lungs, may cause chemical pneumonitis;

treat the affected person appropriately.

# 5. FIRE FIGHTING MEASURES

Extinguishing media: NFPA Class B extinguishers (carbon dioxide or foam) for Class I B liquid fires.

In case of fire, keep containers cool with water spray.

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

Unusual fire or explosion hazards: DANGEROUS when exposed to heat or flame. This material can be ignited

by flame or spark under all normal atmospheric conditions. If product is heated above its flash point it will release flammable vapors which can burn in the open or be explosive in confined spaces if exposed to ignition source.

Mists or sprays may be flammable below the normal flash point.

Hazardous combustion products:

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.

**Environmental precautions:** Prevent further leakage or spillage if safe to do so. Wear appropriate

protective equipment and clothing during clean-up. Remove all sources of ignition. Do not allow product to enter sewer or waterways. Evacuate the area promptly and keep upwind of the spilled material. Isolate the spill area to

prevent people from entering.

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. Do not inhale vapors and fumes.

Use only with adequate ventilation. Wash thoroughly after handling. Keep away from heat, spark and flame. For industrial use only. Do not take internally. Use non-sparking tools when opening or closing containers. Ground

and bond all equipment as required (when transferring products).

Storage: For safe storage, store between 5.0 °C (41°F) and 30.0 °C (86°F)

Store in a cool, dry, well-ventilated area. Keep away from heat, spark and flame. Keep container closed. Temperatures between + 5 °C and + 30 °C Outside temperature limits, the properties of the product will change. Store in original container until ready to use. Keep out of reach of children and away from food and drink. Ground and bond metal containers for liquid transfer to

avoid static sparks. Protect from direct sunlight.

Keep container tightly closed and in a cool, well-ventilated place away from incompatible materials. Do not pressurize, cut, heat or weld containers. Empty product containers may contain product residue. Do not reuse empty

containers.

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 Component(s)	ACGIH TLV	OSHA PEL	AIHA WEEL	OTHER
n-Heptane	400 ppm TWA 500 ppm STEL	500 ppm (2,000 mg/m3) PEL	None	None
2-Propanol	200 ppm TWA 400 ppm STEL	400 ppm (980 mg/m3) PEL	None	None
Propane	Included in the regulation but with no data values. See regulation for further details	1,000 ppm (1,800 mg/m3) PEL	None	None
Butane	1,000 ppm STEL	None	None	None
Methylcyclohexane	400 ppm TWA	500 ppm (2,000 mg/m3) PEL	None	None
Octane	300 ppm TWA	500 ppm (2,350 mg/m3) PEL	None	None
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: Ventilation should effectively remove and prevent buildup of any

vapor/mist/fume/dust 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

Physical state: Aerosol Color: Black

Odor: Hydrocarbon-like
Odor threshold: Not available.
pH: Not applicable

 Vapor pressure:
 40 mm hg (20 °C (68°F))

 Boiling point/range:
 98 °C (208.4 °F)

 Melting point/ range:
 < -91 °C (< -131.8 °F)</td>

Specific gravity: 0.684
Vapor density: Not available.

Flash point: -4 °C (24.8 °F) Closed cup

Flammable/Explosive limits - lower: 1.05 % Flammable/Explosive limits - upper: 6.7 %

Autoignition temperature: > 204 °C (> 399.2 °F)
Evaporation rate: Not available.

Solubility in water: Negligible
Partition coefficient (n-octanol/water): Not available.

VOC content: 693 g/l

VOC content:

Viscosity:

Decomposition temperature:

Not available.

Not available.

Not available.

## 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 oxidizing agents.

Reactivity: Not available.

**Conditions to avoid:** Avoid excessive heat and ignition sources.

## 11. TOXICOLOGICAL INFORMATION

Relevant routes of exposure: Skin, Inhalation, Eyes

#### Potential Health Effects/Symptoms

Inhalation: This product is irritating to the respiratory system. Excessive inhalation of this material causes

headache, dizziness, nausea and incoordination. Continued overexposure may result in coma, respiratory arrest, and death. Repeated inhalation may be harmful; lung irritation and serious

central nervous system disorders may result.

**Skin contact:** Prolonged and/or repeated skin contact with this product may cause irritation/dermatitis.

Prolonged or repeated contact with this product may dry and/or defat the skin. Product contains

components which may be absorbed through the skin.

**Eye contact:** This product may be severely irritating to the eyes.

Ingestion: This product is harmful or fatal if swallowed. Ingestion can cause gastrointestinal irritation,

nausea, vomiting and diarrhea. Small amounts of this product, if aspirated into the lungs, may cause mild to severe pulmonary injury. Ingestion of this product may result in central nervous system effects including headache, sleepiness, dizziness, slurred speech and blurred vision.

Hazardous Component(s)	LD50s and LC50s	Immediate and Delayed Health Effects
n-Heptane	Inhalation LC50 (RAT, 4 h) = 103 mg/l	Central nervous system, Irritant
2-Propanol	Oral LD50 (RAT) = 5,045 mg/kg Oral LD50 (RABBIT) = 6,410 mg/kg Oral LD50 (RAT) = 4.7 g/kg Oral LD50 (RABBIT) = 8.0 g/kg Oral LD50 (RABBIT) = 5.03 g/kg Dermal LD50 (RABBIT) = 12,800 mg/kg	Allergen, Blood, Brain, Central nervous system, Irritant, Kidney, Liver, Spleen
Propane	Inhalation LC50 (RAT, 15 min) = > 1,442.847 mg/l Inhalation LC50 (RAT, 15 min) = > 1,464 mg/l	Cardiac, Central nervous system, Irritant
Butane	Inhalation LC50 (RAT, 4 h) = 658 mg/l	Cardiac, Central nervous system, Irritant
Methylcyclohexane	None	Central nervous system, Irritant, Kidney, Liver
Octane	Inhalation LC50 (RAT, 4 h) = 118 mg/l	Central nervous system, Irritant, Lung
Graphite	None	Lung

Hazardous Component(s)	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
n-Heptane	No	No	No
2-Propanol	No	No	No
Propane	No	No	No
Butane	No	No	No
Methylcyclohexane	No	No	No
Octane	No	No	No
Graphite	No	No	No

IDH number: 1290884 Product name: BONDERITE L-GP G AEROSOLIZED GRAPHITE LUBRICANT ACHESON known as Aerodag G

## 12. ECOLOGICAL INFORMATION

Ecological information: Not available. Do not empty into drains, soil or bodies of 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: If discarded, this product is considered a RCRA ignitable waste, D001.

#### 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)

Proper shipping name: Aerosols, flammable

Hazard class or division: 2.1 Identification number: UN 1950 Packing group: None

International Air Transportation (ICAO/IATA)

Proper shipping name: Aerosols, flammable

Hazard class or division: 2.1
Identification number: UN 1950
Packing group: None

Water Transportation (IMO/IMDG)

Proper shipping name: AEROSOLS
Hazard class or division: 2.1
Identification number: UN 1950
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
Immediate Health, Delayed Health, Fire
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 in the State of California

to cause cancer.

**Canada Regulatory Information** 

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

Substances List.

16. OTHER INFORMATION

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

**Issue date:** 05/04/2023

**DISCLAIMER:** The data contained herein are furnished for information only and are believed to be reliable. However, Henkel Corporation and its affiliates ("Henkel") does not assume responsibility for any results obtained by persons over whose methods Henkel has no control. It is the user's responsibility to determine the suitability of Henkel's products or any production methods mentioned herein for a particular purpose, and to adopt such precautions as may be advisable for the protection of property and persons against any hazards that may be involved in the handling and use of any Henkel's products. In light of the foregoing, Henkel specifically disclaims all warranties, express or implied, including warranties of merchantability and fitness for a particular purpose, arising from sale or use of Henkel's products. Henkel further disclaims any liability for consequential or incidental damages of any kind, including lost profits.

Distributed By: Ladd Research 3 Ewing Place

Essex Junction, VT 05452 USA

Tel: (802) 658-4961 Fax: (802) 660-8859

email: sales@laddresearch.com Web: www.laddresearch.com