Safety Data Sheet



Revision Number: 005.0

1. PRODUCT AND COMPANY IDENTIFICATION

Product name:

Product type: Dry file Restriction of Use: None Company address: Henkel Corporation One Henkel Way Rocky Hill, Connecticut 06067

 BONDERITE L-GP 154 RFU GRAPHITE DISPERSION IN SOLVENT ACHESON known as DAG154RFU Dry film lubricant None identified
 IDH number: Region: Contact infor Telephone: +

Region: United States Contact information: Telephone: +1 (860) 571-5100

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

1224992

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW		
DANGER:	EXTREMELY FLAMMABLE LIQUID AND VAPOR.	
	MAY BE FATAL IF SWALLOWED AND ENTERS AIRWAYS.	
	CAUSES SERIOUS EYE IRRITATION.	
	MAY CAUSE DROWSINESS OR DIZZINESS.	

HAZARD CLASS	HAZARD CATEGORY
FLAMMABLE LIQUID	1
EYE IRRITATION	2A
SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE	3
ASPIRATION HAZARD	1

PICTOGRAM(S)	

Precautionary Statements

Prevention:	Keep away from heat, sparks, open flames, hot surfaces - no smoking. Keep container tightly closed. No release into water. Use explosion-proof equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Avoid breathing vapors, mist, or spray. Wash affected area thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves, eye protection, and face protection.
Response:	IF SWALLOWED: Immediately call a physician or poison control center. If on skin (or hair): Take off immediately all contaminated clothing. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Do NOT induce vomiting. If eye irritation persists: Get medical attention. In case of fire: Use foam, dry chemical or carbon dioxide to extinguish.
Storage:	Store in a well-ventilated place. Keep container tightly closed. Store in a well-ventilated place. Keep cool. Store locked up.
Disposal:	Dispose of contents and/or container according to Federal, State/Provincial and local governmental regulations.
IDH number: 1224992	Product name: BONDERITE L-GP 154 RFU GRAPHITE DISPERSION IN SOLVENT ACHESON known as DAG154RFU

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*
2-Propanol	67-63-0	90 - 100
Graphite	7782-42-5	1 - 5

* 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 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. If symptoms develop and persist, get medical attention.
Eye contact:	In case of contact with the eyes, rinse immediately with plenty of water for 15 minutes, and seek immediate medical attention.
Ingestion:	Do not induce vomiting. Never give anything by mouth to an unconscious person. Get immediate medical attention.
Symptoms:	See Section 11.
Notes to physician:	This material, if aspirated into the lungs, may cause lipoid pneumonitis. Treat affected person appropriately.
5. FIF	RE 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:	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.
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. Remove all sources of ignition. 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. 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).

Storage:

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 Component(s)	ACGIH TLV	OSHA PEL	AIHA WEEL	OTHER
2-Propanol	200 ppm TWA 400 ppm STEL	400 ppm (980 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:	determi	npervious gloves for prol ine suitability for prolonge ommended.		

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Liquid
Color:	Black
Odor:	Alcohol
Odor threshold:	Not available.
pH:	Not applicable
Vapor pressure:	32.1 mm hg
Boiling point/range:	35 °C (95°F)
Melting point/ range:	Not determined
Specific gravity:	0.77 - 0.81
Vapor density:	Not determined
Flash point:	11.1 °C (51.98 °F) Pensky Martens closed cup
Flammable/Explosive limits - lower:	2 %
Flammable/Explosive limits - upper:	12 %
Autoignition temperature:	Not determined
Flammability:	Not applicable
Evaporation rate:	1 (Butyl acetate = 1)
Solubility in water:	Miscible
Partition coefficient (n-octanol/water):	Not determined
VOC content:	766 g/l
Viscosity:	50 - 200 cp
Decomposition temperature:	Not available.

IDH number: 1224992

10. STABILITY AND REACTIVITY

Stability:	Stable at normal conditions.
Hazardous reactions:	Will not occur.
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, bases and oxidizing agents.
Reactivity:	Not available.
Conditions to avoid:	Heat, flames, sparks and other sources of ignition.
11. TOXICOLOGICAL INFORMATION	

Relevant routes of exposure:	Skin, Inhalation, Eyes
Relevant reales of exposure.	onin, minalation, 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.
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 irritating to the eyes.
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.

Hazardous Component(s)	LD50s and LC50s	Immediate and Delayed Health Effects
2-Propanol	Oral LD50 (Rat) = 5,045 mg/kg Oral LD50 (Mouse) = 3,600 mg/kg Oral LD50 (Rabbit) = 6,410 mg/kg Oral LD50 (Rat) = 4.7 g/kg Oral LD50 (Mouse) = 4.5 g/kg Oral LD50 (Rabbit) = 8.0 g/kg Oral LD50 (Rabbit) = 5.03 g/kg Dermal LD50 (Rabbit) = 12,800 mg/kg	Allergen, Central nervous system, Irritant
Graphite	None	Lung

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

12. ECOLOGICAL INFORMATION

Ecological information:

Not available.

13. DISPOSAL CONSIDERATIONS Information provided is for unused product only. Follow all local, state, federal and provincial regulations for disposal. Recommended method of disposal: Hazardous waste number: If discarded, this product is considered a RCRA ignitable waste, D001. **TRANSPORT INFORMATION** 14. 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) Coating solution Proper shipping name: Hazard class or division: 3 Identification number: UN 1139 Packing group: Ш International Air Transportation (ICAO/IATA) Proper shipping name: Coating solution Hazard class or division: 3 Identification number: UN 1139 Packing group: Ш Water Transportation (IMO/IMDG) Proper shipping name: COATING SOLUTION Hazard class or division: 3 Identification number: UN 1139 Packing group: Ш

15. REGULATORY INFORMATION

United States Regulatory Information

		Substances List.		
	CEPA DSL/NDSL Status:	All components are listed on or are exempt from listing on the Canadian Domestic		
nada Regulatory Information				
	California Proposition 65:	No California Proposition 65 listed chemicals are known to be present. 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: CERCLA Reportable quantity:	None above reporting de minimis. Immediate Health, Fire None above reporting de minimis. 2-Propanol (CAS# 67-63-0) 100 lbs. (45.4 kg)		
	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.		

16. OTHER INFORMATION

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

Prepared by: Timothy Pratt, Regulatory Affairs Specialist

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