Safety Data Sheet



Revision Number: 004.2

Rocky Hill, Connecticut 06067

1. PRODUCT AND COMPANY IDENTIFICATION

IDH number:

Product name: Product type: LOCTITE EDAG PF 407C E&C known as ELECTRODAG PF-407C 1 KG

Product type:InkRestriction of Use:None identifiedCompany address:Henkel CorporationOne Henkel WayImage: Company address

Region: United States Contact information:

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

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2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW		
WARNING:	COMBUSTIBLE LIQUID.	
	CAUSES SKIN IRRITATION.	
	CAUSES SERIOUS EYE IRRITATION.	
	MAY CAUSE DROWSINESS OR DIZZINESS.	

HAZARD CLASS	HAZARD CATEGORY
FLAMMABLE LIQUID	4
SKIN IRRITATION	2
EYE IRRITATION	2A
SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE	3

PICTOGRAM(S)

Precautionary Statements

Prevention:	Keep away from heat, sparks, open flames, hot surfaces - no smoking. 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 ON SKIN: Wash with plenty of water. 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. If skin irritation occurs: Get medical attention. If eye irritation persists: Get medical attention. Take off contaminated clothing. 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.

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*
Diethylene glycol monobutyl ether	112-34-5	40 - 50
Butoxyethyl acetate	112-07-2	20 - 30
Graphite	7782-42-5	10 - 20
Carbon black	1333-86-4	5 - 10

* 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 inhaled, immediately remove the affected person to fresh air. If symptoms develop and persist, get medical attention.	
Skin contact:	Remove contaminated clothing and footwear. Immediately flush skin with plenty of water (using soap, if available). If symptoms develop and persist, get medical attention. Wash clothing before reuse.	
Eye contact:	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.	
Ingestion:	DO NOT induce vomiting unless directed to do so by medical personnel. Get medical attention.	
Symptoms:	See Section 11.	
Notes to physician:	Treat symptomatically and supportively.	
5. FIF	RE FIGHTING MEASURES	
Extinguishing media:	Water spray (fog), foam, dry chemical or carbon dioxide.	
Special firefighting procedures:	Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear. In case of fire, keep containers cool with water spray.	
Unusual fire or explosion hazards:	This product is combustible at high temperatures. Closed containers may rupture (due to build up of pressure) when exposed to extreme heat.	
Hazardous combustion products:	Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons. Oxides of nitrogen.	

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:	Eliminate ignition sources including sources of electrical, static or frictional sparks. Do not allow product to enter sewer or waterways. Wear appropriate protective equipment and clothing during clean-up. Prevent further leakage or spillage if safe to do so. Ventilate area.
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:

Use only with adequate ventilation. Prevent contact with eyes, skin and clothing. Do not breathe vapor and mist. Wash thoroughly after handling. For industrial use only. Wash thoroughly after handling. Ground and bond all equipment as required (when transferring products).

Storage:

For safe storage, store between 5.0 °C (41°F) and 30 °C (86°F) Keep away from heat, spark and flame. Keep container closed. Storage within given temperature limit Store in original container until ready to use. Keep out of reach of children and away from food and drink. Protect from direct sunlight.

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
Diethylene glycol monobutyl ether	10 ppm TWA Inhalable fraction and vapor.	None	None	50 ppm TWA 75 ppm STEL
Butoxyethyl acetate	20 ppm TWA	None	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
Carbon black	3 mg/m3 TWA Inhalable fraction.	3.5 mg/m3 PEL	None	None
Engineering controls: Ventilation should effectively remove and preven vapor/mist/fume/dust generated from the handlin				
sufficient to effect		lusts or thermal processi ht to effectively remove t ory protection must be p	hem, appropriate NIOSI	
Eye/face protection:	Safety goggles or safety glasses with side shields. Full face protection shou be used if the potential for splashing or spraying of product exists. Safety showers and eye wash stations should be available.			
Skin protection: Use impermeable gloves and protective clothing as necessary to preve contact. Wear impervious gloves for prolonged contact.				

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Color: Odor: Odor threshold: pH: Vapor pressure: Boiling point/range: Melting point/ range: Specific gravity: Vapor density: Flash point: Flammable/Explosive limits - lower: Flammable/Explosive limits - upper: Autoignition temperature: Flammability: Evaporation rate:

Liquid Black Slight Not available. $< 1 \text{ mm} \text{ hg None} > 186.0 ^{\circ}\text{C} (> 366.8 ^{\circ}\text{F})$ Not determined 1.13 5.5000 (Air = 1) 78 ^{\circ}\text{C} (172.4 ^{\circ}\text{F}) 0.85 % 26.4 % 204 ^{\circ}\text{C} (399.2 ^{\circ}\text{F}) Not applicable Less than butyl acetate.

Product name: LOCTITE EDAG PF 407C E&C known as ELECTRODAG PF-407C 1 KG Page 3 of 6 Solubility in water: Partition coefficient (n-octanol/water): VOC content: Viscosity: Decomposition temperature: Soluble Not available. 711 g/l 35,000 - 50,000 cp Not available.

10. STABILITY AND REACTIVITY

Stability:	Stable under normal conditions of storage and use.	
Hazardous reactions:	Not applicable	
Hazardous decomposition products:	Oxides of nitrogen. 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:	Keep away from heat, ignition sources and incompatible materials.	

11. TOXICOLOGICAL INFORMATION

Relevant routes of exposure:

Skin, Inhalation, Eyes, Ingestion

Potential Health Effects/Symptoms

Inhalation:	This product is irritating to the respiratory system.
Skin contact:	This product is irritating to the skin.
Eye contact:	This product is severely irritating to the eyes.
Ingestion:	Ingestion can cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Hazardous Component(s)	LD50s and LC50s	Immediate and Delayed Health Effects	
Diethylene glycol monobutyl ether	Oral LD50 (Rabbit) = 2,200 mg/kg Oral LD50 (Rat) = 4,500 mg/kg Oral LD50 (Rat) = 5,660 mg/kg Oral LD50 (Rat) = 7,292 mg/kg Oral LD50 (Mouse) = 2,400 mg/kg Oral LD50 (Rat) = 6,600 mg/kg Oral LD50 (Rat) = 6,560 mg/kg Dermal LD50 (Rabbit) = 2,700 mg/kg Dermal LD50 (Rabbit) = 4,120 mg/kg	Blood, Central nervous system, Irritant, Kidney	
Butoxyethyl acetate	Oral LD50 (Rat) = 2,400 mg/kg Oral LD50 (Rat) = 3,000 mg/kg Dermal LD50 (Rabbit) = 1,500 mg/kg	Behavioral, Blood, Bone Marrow, Central nervous system, Irritant, Kidney, Liver, Lung	
Graphite	None	Lung	
Carbon black	Oral LD50 (Rat) = > 8,000 mg/kg	Respiratory, Some evidence of carcinogenicity	

Hazardous Component(s)	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Diethylene glycol monobutyl ether	No	No	No
Butoxyethyl acetate	No	No	No
Graphite	No	No	No
Carbon black	No	Group 2B	No

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: Material, if discarded, is not expected to be a characteristic hazardous waste under RCRA. **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: Combustible liquid, n.o.s. (2-Butoxyethyl acetate) Hazard class or division: Combustible Liquid Identification number: NA 1993 Packing group: ш 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: Hazard class or division: Identification number: Packing group:

Not regulated None None 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, Fire This product contains the following toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (40 CFR 372). Diethylene glycol monobutyl ether (CAS# 112-34-5). Butoxyethyl acetate (CAS# 112-07-2). 2-Butoxyethanol (CAS# 111-76-2).
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	
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: This Safety Data Sheet contains changes from the previous version in Section(s): 3

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