# Safety Data Sheet



**Revision Number: 003.0** Issue date: 10/18/2021

# PRODUCT AND COMPANY IDENTIFICATION

Product name: LOCTITE EDAG PF 465 E&C known as IDH number: 1239061

**ELECTRODAG PF-465 1 KG** 

Product type/use: PTF ink

Restriction of Use: None identified Region: **United States** 

Company address: Contact information: Henkel Corporation Telephone: +1 (860) 571-5100

One Henkel Way MEDICAL EMERGENCY Phone: Poison Control Center Rocky Hill, Connecticut 06067

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

# HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW				
WARNING:	CAUSES SKIN IRRITATION.			
	MAY CAUSE AN ALLERGIC SKIN REACTION.			
	CAUSES SERIOUS EYE IRRITATION.			
	MAY CAUSE RESPIRATORY IRRITATION.			

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

### PICTOGRAM(S)



#### **Precautionary Statements**

Avoid breathing vapors, mist, or spray. Wash affected area thoroughly after handling. Use only outdoors or in a well-ventilated area. Contaminated work clothing should not be allowed out of Prevention:

the workplace. 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 or rash occurs: Get medical attention.

If eye irritation persists: Get medical attention. Take off contaminated clothing. Store in a well-ventilated place. Keep container tightly closed. Store locked up.

Storage: 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.

### COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Component(s)	CAS Number	Percentage*
2-[(3a,4,5,6,7,7a-Hexahydro-4,7-methano-1H-inden-6-yl)oxy]ethyl acrylate	65983-31-5	30 - 60

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Acrylated urethane oligomer~		10 - 30	
Talc	14807-96-6	10 - 30	
hexamethylene diacrylate	13048-33-4	1 - 5	
2,2-Diethoxyacetophenone	6175-45-7	1 - 5	
Polyethylene wax MW 4000 - 6000	9002-88-4	1 - 5	
Benzophenone	119-61-9	0.1 - 1	
Diacrylate ester	42978-66-5	0.1 - 1	

<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:**Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. 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. Thoroughly clean shoes before

reuse

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

medical attention.

Ingestion: DO NOT induce vomiting unless directed to do so by medical personnel.

Never give anything by mouth to an unconscious person. Get medical

attention.

**Symptoms:** See Section 11.

## 5. FIRE FIGHTING MEASURES

**Extinguishing media:** Foam, dry chemical or carbon dioxide.

Special firefighting procedures: Wear self-contained breathing apparatus and full protective clothing, such as

turn-out gear.

Unusual fire or explosion hazards: Vapors may accumulate in low or confined areas, travel considerable distance

to source of ignition, and flash back. Closed containers may rupture (due to

build up of pressure) when exposed to extreme heat.

**Hazardous combustion products:** Oxides of carbon. Oxides of nitrogen. Toxic fumes. Irritating 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:** Do not allow product to enter sewer or waterways.

Clean-up methods: Ensure adequate ventilation. Wear appropriate personal protective equipment.

Refer to Section 8 "Exposure Controls / Personal Protection" prior to clean up. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Scrape up spilled material and place in a closed

container for disposal.

# 7. HANDLING AND STORAGE

**Handling:** Prevent contact with eyes, skin and clothing. Do not breathe vapor and mist.

Wash thoroughly after handling. Use only with adequate ventilation. Keep

container closed.

Storage: For safe storage, store between -20 °C (-4°F) and 50 °C (122°F)

Keep container tightly closed and in a cool, well-ventilated place away from incompatible materials. Keep away from heat, spark and flame. Protect from direct sunlight. Maintain head space in storage containers to support oxygen

requirements of the inhibitor(s).

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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
2-[(3a,4,5,6,7,7a-Hexahydro-4,7-methano-1H-inden-6-yl)oxy]ethyl acrylate	None	None	None	None
Acrylated urethane oligomer~	er~ None None		None	None
Talc	2 mg/m3 TWA Respirable fraction.	0.1 mg/m3 TWA Respirable. 20 MPPCF TWA 2.4 MPPCF TWA Respirable.	None	50 ppm
hexamethylene diacrylate	None	None	0.11 ppm (1 mg/m3) TWA (Skin sensitizer.)	None
2,2-Diethoxyacetophenone	None	None	None	None
Polyethylene wax MW 4000 - 6000	10 mg/m3 TWA Inhalable particles. 3 mg/m3 TWA Respirable particles.	15 MPPCF TWA Respirable fraction. 15 mg/m3 TWA Total dust. 50 MPPCF TWA Total dust. 5 mg/m3 TWA Respirable fraction. 5 mg/m3 PEL Respirable fraction. 15 mg/m3 PEL Total dust.	None	None
Benzophenone	None	None	0.5 mg/m3 TWA	None
Diacrylate ester	None	None	None	None

Engineering controls: Use local ventilation if general ventilation is insufficient to maintain vapor

concentration below established exposure limits.

Respiratory protection: Use NIOSH approved respirator if there is potential to exceed exposure

limit(s).

Eye/face protection: Safety goggles or safety glasses with side shields. Full face protection should

be used if the potential for splashing or spraying of product exists.

**Skin protection:**Use chemical resistant, impermeable clothing including gloves and either an

apron or body suit to prevent skin contact.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Paste Color: Blue Acrylate Odor: Odor threshold: Not available. Not applicable pH: Vapor pressure: Not available. 110 °C (230°F) Boiling point/range: Melting point/ range: Not available. Specific gravity: 1 27 Vapor density: Not available. Flash point: 110 °C (230°F) Flammable/Explosive limits - lower: Not available. Flammable/Explosive limits - upper: Not available. Autoignition temperature: Not available. Flammability: Not applicable Evaporation rate: Not available. Solubility in water: Insoluble Partition coefficient (n-octanol/water): Not available. VOC content: Not available.

**Viscosity:** 10,000 - 25,000 mPa.s

**Decomposition temperature:** Not available.

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# 10. STABILITY AND REACTIVITY

Stability: Stable under normal conditions of storage and use.

Hazardous reactions: May occur with excessive aging, excessive heat, polymerization catalyst, inhibitor depletion,

direct sunlight and under oxygen-free atmospheres.

Hazardous decomposition

products:

Oxides of carbon. Oxides of nitrogen. Toxic fumes. Irritating vapors.

Incompatible materials: Bases. Acids. Reducing agents. Oxidizing agents. Free radical initiators. Oxygen scavengers.

Peroxides. Amines. Copper. Copper alloys. Iron. Rust.

Reactivity: Not available.

Conditions to avoid: Keep away from heat, ignition sources and incompatible materials. Protect from direct sunlight.

Loss of polymerization inhibitor. Loss of dissolved air.

## 11. TOXICOLOGICAL INFORMATION

Relevant routes of exposure: Skin, Inhalation, Eyes

### **Potential Health Effects/Symptoms**

**Inhalation:** May cause respiratory tract irritation.

**Skin contact:** Causes skin irritation. May cause allergic skin reaction.

**Eye contact:** Causes serious eye irritation.

**Ingestion:** May cause gastrointestinal tract irritation if swallowed.

Hazardous Component(s)	LD50s and LC50s	Immediate and Delayed Health Effects  Irritant, Allergen	
2-[(3a,4,5,6,7,7a-Hexahydro-4,7-methano-1H-inden-6-yl)oxy]ethyl acrylate	None		
Acrylated urethane oligomer~	None	No Data	
Talc	None	Irritant, Lung, Some evidence of carcinogenicity	
hexamethylene diacrylate	Oral LD50 (Rat) = 5 g/kg Dermal LD50 (Rabbit) = 3,600 mg/kg	Irritant, Allergen	
2,2-Diethoxyacetophenone	None	Irritant	
Polyethylene wax MW 4000 - 6000	None No Target Organs		
Benzophenone	Oral LD50 (Mouse) = 2,895 mg/kg	Blood, Kidney, Irritant, Some evidence of carcinogenicity	
Diacrylate ester	None	Irritant, Allergen, Eyes	

Hazardous Component(s)	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
2-[(3a,4,5,6,7,7a-Hexahydro-4,7- methano-1H-inden-6-yl)oxy]ethyl acrylate	No	No	No
Acrylated urethane oligomer~	No	No	No
Talc	No	No	No
hexamethylene diacrylate	No	No	No
2,2-Diethoxyacetophenone	No	No	No
Polyethylene wax MW 4000 - 6000	No	No	No
Benzophenone	No	Group 2B	No
Diacrylate ester	No	No	No

# 12. ECOLOGICAL INFORMATION

Ecological information: Not available.

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## 13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

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

### 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: Not regulated Hazard class or division: None Identification number: None Packing group: None

International Air Transportation (ICAO/IATA)

Proper shipping name: Environmentally hazardous substance, liquid, n.o.s. (Dicyclopentyloxyethyl

acrylate)

Hazard class or division: 9
Identification number: UN 3082
Packing group: III

Water Transportation (IMO/IMDG)

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

(Dicyclopentyloxyethyl acrylate)

Hazard class or division: 9
Identification number: UN 3082

Packing group:

Marine pollutant: Dicyclopentyloxyethyl acrylate

### 15. REGULATORY INFORMATION

**United States Regulatory Information** 

TSCA 8 (b) Inventory Status: All components are listed as active or are exempt from listing on the Toxic Substances

Control Act (TSCA) inventory.

TSCA 12 (b) Export Notification: Benzophenone (CAS# 119-61-9).

CERCLA/SARA Section 302 EHS: None above reporting de minimis.

CERCLA/SARA Section 311/312: Immediate Health

CERCLA/SARA Section 313: 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** 

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CEPA DSL/NDSL Status: One or more components are not listed on, and are not exempt from listing on either the

Domestic Substances List or the Non-Domestic Substances List.

### 16. OTHER INFORMATION

This safety data sheet contains changes from the previous version in sections: 13,15

Prepared by: Product Safety and Regulatory Affairs

**Issue date:** 10/18/2021

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