

Revision Number: 003.0 Issue date: 08/06/2014

1. PRODUCT AND COMPANY IDENTIFICATION

LOCTITE EA 460 6OZ AERO known as IDH number: **Product name:**

PL460 TUBE/ 6 OZ EACH

Product type: Adhesive for the Aerospace Industry

Restriction of Use: None identified

Company address: Henkel Corporation

One Henkel Way

Rocky Hill, Connecticut 06067

921746

Item number: AO3100002 Region: **United States**

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: CAUSES SKIN IRRITATION.

MAY CAUSE AN ALLERGIC SKIN REACTION.

CAUSES SERIOUS EYE IRRITATION.

HAZARD CLASS	HAZARD CATEGORY
SKIN IRRITATION	2
EYE IRRITATION	2A
SKIN SENSITIZATION	1

PICTOGRAM(S)



Precautionary Statements

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Prevention: Avoid breathing dust or fumes. Wash thoroughly after handling. Contaminated work clothing

should not be allowed out of the workplace. Wear eye and face protection. Wear protective

Response: IF ON SKIN: Wash with plenty of soap and water. IF IN EYES: Rinse cautiously with water for

several minutes. Remove contact lenses, if present and easy to remove. Continue rinsing. If skin irritation or rash occurs: Get medical attention. If eye irritation persists: Get medical

attention. Take off contaminated clothing.

Storage: Not prescribed

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

governmental regulations.

2 % of the mixture consists of ingredient(s) of unknown acute toxicity.

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*	
Epoxy resin	Proprietary	60 - 100	
Glass, oxide, chemicals	65997-17-3	10 - 30	
Guanidine derivative	Proprietary	1 - 5	
Treated fumed silica	67762-90-7	1 - 5	
Amine	Proprietary	1 - 5	
Epoxy resin	Proprietary	1 - 5	

^{*} Exact percentage is a 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 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: Get immediate medical attention. Do not induce vomiting. Never give anything

by mouth to an unconscious person.

Symptoms: See Section 11.

Notes to physician: Treat symptomatically and supportively.

5. FIRE 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: May liberate large quantities of dense, foul-smelling smoke which may contain

unidentified toxic gasses.

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

protective equipment and clothing during clean-up. Do not allow product to

enter sewer or waterways.

Clean-up methods: Scrape up spilled material and place in a closed 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. Do

not breathe fumes or dust from this material. For industrial use only.

Storage: Keep in a cool, well ventilated area away from heat, sparks and open flame.

Keep container tightly closed until ready for use.

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
Epoxy resin	None	None	None	None
Glass, oxide, chemicals	10 mg/m3 TWA Inhalable dust. 3 mg/m3 TWA Respirable fraction.	15 mg/m3 TWA Total dust. 5 mg/m3 TWA Respirable fraction.	None	None
Guanidine derivative	None	None	None	None
Treated fumed silica	10 mg/m3 TWA Inhalable dust. 3 mg/m3 TWA Respirable fraction.	dust. dust. None 5 mg/m3 TWA		None
Amine	None	None	None	None
Epoxy resin	None	None	None	None

Engineering controls: Ventilation should effectively remove and prevent buildup of any dust

generated from the handling of this product.

Respiratory protection: When dusts or thermal processing fumes are generated and ventilation is not

sufficient to effectively remove them, appropriate NIOSH/MSHA approved

respiratory protection must be provided.

Eye/face protection: Wear safety glasses; chemical goggles (if splashing is possible).

Skin protection: Wear impervious gloves for prolonged contact. Use of impervious apron and

boots are recommended.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Solid
Color: Amber
Odor: Slight

Odor threshold:

pH:

Not available.

Not applicable

Vapor pressure:

Not applicable

Boiling point/range:

246 °C (474.8 °F)

Melting point/ range:

Not determined

Specific gravity: 1.0

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Vapor density:

Flash point:

Not applicable
Not applicable
Flammable/Explosive limits - lower:

Flammable/Explosive limits - upper:

Autoignition temperature:

Evaporation rate:

Not determined
Not determined
Not applicable

Solubility in water: Not miscible or difficult to mix

Partition coefficient (n-octanol/water): Not determined

VOC content: < 1 %
Viscosity: Not available.

Decomposition temperature: Not available.

10. STABILITY AND REACTIVITY

Stability: Stable under recommended storage conditions.

Hazardous reactions: Will not occur.

Hazardous decomposition

products:

Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low

molecular weight hydrocarbons. Oxides of nitrogen.

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

Potential Health Effects/Symptoms

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Inhalation: May cause respiratory tract irritation.

Skin contact: This product may cause irritation to the skin. This product may cause an allergic skin reaction.

Eye contact: This product may cause irritation to the eyes.

Ingestion: Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Hazardous Component(s)	LD50s and LC50s	Immediate and Delayed Health Effects	
Epoxy resin	None	Allergen, Irritant	
Glass, oxide, chemicals	None	Allergen, Respiratory	
Guanidine derivative	None	Allergen, Central nervous system, Eyes, Irritant	
Treated fumed silica	None	Irritant	
Amine	Oral LD50 (RAT) = 6,400 mg/kg Oral LD50 (RAT) = 7,500 mg/kg Oral LD50 (RAT) = 4,000 mg/kg	Irritant	
Epoxy resin	Oral LD50 (RABBIT) = 1,980 mg/kg Oral LD50 (RAT) = > 1,000 mg/kg Dermal LD50 (RABBIT) = 20 mg/kg Dermal LD50 (RAT) = > 1,600 mg/kg	Allergen, Central nervous system, Irritant, Liver, Respiratory	

Hazardous Component(s)	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Epoxy resin	No	No	No
Glass, oxide, chemicals	No	No	No
Guanidine derivative	No	No	No
Treated fumed silica	No	No	No
Amine	No	No	No
Epoxy resin	No	No	No

12. ECOLOGICAL INFORMATION

Ecological information: Harmful to aquatic organisms.

13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

Recommended method of disposal:Dispose of according to Federal, State and local governmental regulations.

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: Not regulated (Up to 6.8 kg max per inner/primary package when shipped as

originally packaged only)

Hazard class or division:
Identification number:
None
Packing group:
None

International Air Transportation (ICAO/IATA)

Proper shipping name: Not regulated (Up to 6.8 kg max per inner/primary package when shipped as

originally packaged only)

Hazard class or division:
Identification number:
Packing group:
None

Water Transportation (IMO/IMDG)

Proper shipping name: Not regulated (Up to 6.8 kg max per inner/primary package when shipped as

originally packaged only)

Hazard class or division:
Identification number:
None
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
None above reporting de minimis

California Proposition 65: This product contains a chemical known in the State of California to cause cancer.

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: New Material Safety Data Sheet format.

Prepared by: Mark Mau, Regulatory Affairs Specialist

Issue date: 08/06/2014

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