Material Safety Data Sheet



Revision Number: 002.1 Issue date: 02/25/2009

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: Loctite(R)Fix(R) AlumLiquid IDH number:

Item number: 97453_10255000 Product type: Epoxy resin Region: **United States**

Company address: **Contact information:** Telephone: 860.571.5100 Henkel Corporation

1001 Trout Brook Crossing Emergency telephone: 860.571.5100 Rocky Hill, Connecticut 06067 Internet: www.henkelna.com

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW HMIS:

Physical state: HEALTH: *2 Paste FLAMMABILITY: Color: Gray 1 Odor: Mild PHYSICAL HAZARD: 0

Personal Protection: See MSDS Section 8

WARNING: MAY CAUSE ALLERGIC SKIN REACTION.

MAY BE HARMFUL IF SWALLOWED.

MAY CAUSE EYE, SKIN AND RESPIRATORY TRACT IRRITATION.

Relevant routes of exposure: Skin, Inhalation, Eyes, Ingestion

Potential Health Effects

Inhalation: Mild respiratory tract irritation. Coughing. Vapors and mists will irritate nose and throat and

possibly eyes. Dusts from solid adhesive may cause irritation.

Skin contact: May cause allergic skin reaction. Itching. Moderate skin irritation. Redness. Contact at elevated

temperatures may cause thermal burns.

Eye contact: Moderate eye irritation. Redness. Excess tearing. Contact at elevated temperatures may cause thermal burns.

Ingestion: May be harmful if swallowed. Irritation and corrosive action can occur in the mouth, stomach

tissue and digestive tract if swallowed. Nausea.

Existing conditions aggravated by

exposure:

Eye, skin, and respiratory disorders. Skin allergies.

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR

1910.1200).

See Section 11 for additional toxicological information.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous components	CAS NUMBER	%
Aluminum	7429-90-5	30 - 60
Epichlorohydrin-4,4'-isopropylidene diphenol resin	25068-38-6	30 - 60
Oxirane, 2,2'-((2,2-dimethyl-1,3-propanediyl)bis(oxymethylene))bis-(9CI)	17557-23-2	1 - 5
Stearalconium hectorite	12691-60-0	0.1 - 1

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4. FIRST AID MEASURES

Inhalation: Move to fresh air. If not breathing, give artificial respiration. If breathing is

difficult, give oxygen. Get medical attention.

Skin contact: Immediately flush skin with plenty of water (using soap, if available). Remove

contaminated clothing and footwear. Wash clothing before reuse. If symptoms

develop and persist, get medical attention.

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.

5. FIRE FIGHTING MEASURES

Flash point: 149 °C (300.2 °F) Tagliabue closed cup

Autoignition temperature:

Flammable/Explosive limits - lower:

Not available
Flammable/Explosive limits - upper:

Not available

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. Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA). Use water spray to keep fire exposed containers cool and disperse vapors. Caution should be exercised when using water or

foam as frothing may occur.

Unusual fire or explosion hazards: Closed containers may rupture (due to build up of pressure) when exposed to

extreme heat.

Hazardous combustion products: Oxides of carbon. Acids. Phenolics. Toxic fumes. Aldehydes. Irritating organic

fragments.

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: Scrape up as much material as possible. Clean residue with soap and water.

Store in a closed container until ready for disposal.

7. HANDLING AND STORAGE

Handling: Do not taste or swallow. Avoid contact with eyes, skin and clothing. Wash

thoroughly after handling.

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 contact Henkel Customer Service at (800) 243-4874.

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 components	ACGIH TLV	OSHA PEL	AIHA WEEL	OTHER
Aluminum	1 mg/m3 TWA Respirable fraction.	15 mg/m3 TWA (as Al) Total dust. 5 mg/m3 TWA (as Al) Respirable dust.	None	None
Epichlorohydrin-4,4'-isopropylidene diphenol resin	None	None	None	None
Oxirane, 2,2'-((2,2-dimethyl-1,3- propanediyl)bis(oxymethylene))bis-(9CI)	None	None	None	None
Stearalconium hectorite	None	None	None	None

Engineering controls: Use local exhaust ventilation if the potential for airborne exposure exists.

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

imit(s).

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

Skin protection: Chemical resistant, impermeable gloves.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Paste
Color: Gray
Odor: Mild

Odor threshold:Not availablepH:Not availableVapor pressure:Not availableBoiling point/range:Not applicableMelting point/ range:Not availableSpecific gravity:1.7152Vapor density:> 1 (Air = 1)

Flash point: 149 °C (300.2 °F) Tagliabue closed cup

Flammable/Explosive limits - lower: Not available Flammable/Explosive limits - upper: Not available Autoignition temperature: Not available

Evaporation rate: Less than butyl acetate.

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

VOC content: < 1.0 %; < 10 g/l (value for resin and hardener together) (estimated)

10. STABILITY AND REACTIVITY

Stability: Stable

Hazardous reactions: Will not occur.

Hazardous decomposition products: None

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Incompatible materials: Strong oxidizing agents. Strong Lewis acids. Strong mineral acids. Strong

bases. Amines. Mercaptans.

Conditions to avoid: None known

11. TOXICOLOGICAL INFORMATION

Hazardous components	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Aluminum	No	No	No
Epichlorohydrin-4,4'-isopropylidene diphenol resin	No	No	No
Oxirane, 2,2'-((2,2-dimethyl-1,3-propanediyl)bis(oxymethylene))bis-(9CI)	No	No	No
Stearalconium hectorite	No	No	No

Hazardous components	Health Effects/Target Organs	
Aluminum	Central nervous system, Irritant, Lung	
Epichlorohydrin-4,4'-isopropylidene diphenol resin	Allergen, Irritant	
Oxirane, 2,2'-((2,2-dimethyl-1,3- propanediyl)bis(oxymethylene))bis-(9CI)	Allergen, Blood, Bone Marrow, Immune system, Irritant, Reproductive	
Stearalconium hectorite	No Records	

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: Not a RCRA hazardous waste.

14. TRANSPORT INFORMATION

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

Water Transportation (IMO/IMDG)

Proper shipping name:Not regulatedHazard class or division:NoneIdentification number:NonePacking 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 minimus

CERCLA/SARA Section 302 EHS:
CERCLA/SARA Section 311/312:
CERCLA/SARA 313:

None above reporting de minimus
Immediate Health, Delayed Health
None above reporting de minimus

IDH number: 702238 Product name: Loctite(R)Fix(R) AlumLiquid

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.

WHMIS hazard class: D.2.A, D.2.B

16. OTHER INFORMATION

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

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