Material Safety Data Sheet



Revision Number: 002.1 Issue date: 07/12/2011

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: LOCTITE EF 562 50M AERO known as IDH number: 750046

MA562 .050 12IN X 24IN 2SF

Product type: Adhesive for the Aerospace Industry Item number: CF3100502
Region: United States

Company address: Contact information:

Henkel Corporation

Zelephone: 925.458.8000 Fax: 925.458.8030

MEDICAL EMERGENCY Phone: Poison Control Center

Bay Point, California 94565

Telephone: 925.458.8000 Fax: 925.458.8030

MEDICAL EMERGENCY Phone: Poison Control Center

1-877-671-4608 (toll free) or 1-303-592-1711

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

Physical state: Solid HEALTH: *2
Color: Amber FLAMMABILITY: 1
Odor: Little intrinsic odor PHYSICAL HAZARD: 1

Personal Protection: See MSDS Section 8

WARNING: MAY CAUSE EYE, SKIN AND RESPIRATORY TRACT IRRITATION.

MAY CAUSE ALLERGIC SKIN REACTION.

Relevant routes of exposure: Skin, Inhalation, Eyes

Potential Health Effects

Inhalation: Prolonged inhalation of large concentrations can be irritating to lungs, and mucous membranes

of nose and throat.

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.

Existing conditions aggravated by

exposure:

IDH number: 750046

Eye, skin and respiratory disorders.

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	%
Epoxy resin	Proprietary	60 - 100
Epoxy resin	Proprietary	10 - 30
Aluminium hydroxide	21645-51-2	5 - 10
Quarternary amine/mineral clay complex	Proprietary	1 - 5
Glass	Proprietary	1 - 5
Polyamide resin	Proprietary	1 - 5
Cyanoguanidine	461-58-5	1 - 5
Hydrazide	Proprietary	1 - 5
Polymer	Proprietary	1 - 5

4. FIRST AID MEASURES

Inhalation: If inhaled, immediately remove the affected person to fresh air. If breathing is

difficult, give oxygen. Get immediate 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.

Notes to physician: Treat symptomatically and supportively.

5. FIRE FIGHTING MEASURES

Flash point: > 200 °F (> 93.33 °C)

Autoignition temperature: Not determined

Flammable/Explosive limits - lower: Not determined

Flammable/Explosive limits - upper: Not determined

IDH number: 750046

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: Approach fire from upwind to avoid hazardous vapors and toxic decomposition

products. Concentrated vapors can be ignited by high intensity energy

source.

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. 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. Do not take internally.

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 components	ACGIH TLV	OSHA PEL	AIHA WEEL	OTHER
Epoxy resin	None	None	None	None
Epoxy resin	None	None	None	None
Aluminium hydroxide	10 mg/m3 TWA (as Al) Total dust. 1 mg/m3 TWA Respirable fraction.	15 mg/m3 TWA (as Al) Total dust. 5 mg/m3 TWA (as Al) Respirable fraction.	None	None
Quarternary amine/mineral clay complex	None	None	None	None
Glass	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
Polyamide resin	None	None	None	None
Cyanoguanidine	None	None	None	None
Hydrazide	0.1 mg/m3 TWA Inhalable fraction.	None	None	None
Polymer	None	None	None	None

Engineering controls: Provide local and general exhaust ventilation to effectively remove and

prevent buildup of any vapors or mists 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: Safety goggles or safety glasses with side shields.

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

boots are recommended.

9. PHYSICAL AND CHEMICAL PROPERTIES

Little intrinsic odor

Physical state: Solid Color: Amber

Odor:

IDH number: 750046

Odor threshold: Not available pH: Not applicable Not determined Vapor pressure: Boiling point/range: Not applicable Melting point/ range: Not determined Specific gravity: 1.2 Vapor density: Not applicable Flash point: > 200 °F (> 93.33 °C) Flammable/Explosive limits - lower: Not determined Flammable/Explosive limits - upper: Not determined Autoignition temperature: Not determined **Evaporation rate:** Not applicable Solubility in water: Not miscible Partition coefficient (n-octanol/water): Not determined

VOC content: < 1 %

10. STABILITY AND REACTIVITY

Stability: Stable at normal conditions.

Hazardous reactions:None under normal processing.

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. Amines.

Conditions to avoid: Keep away from heat, ignition sources and incompatible materials. High

temperatures.

11. TOXICOLOGICAL INFORMATION

Hazardous components	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Epoxy resin	No	No	No
Epoxy resin	No	No	No
Aluminium hydroxide	No	No	No
Quarternary amine/mineral clay complex	No	No	No
Glass	No	No	No
Polyamide resin	No	No	No
Cyanoguanidine	No	No	No
Hydrazide	No	No	No
Polymer	No	No	No

Hazardous components	Health Effects/Target Organs	
Epoxy resin	Irritant, Allergen	
Epoxy resin	Irritant, Allergen	
Aluminium hydroxide	Irritant, Lung, Respiratory	
Quarternary amine/mineral clay complex	No Records	
Glass	Allergen, Respiratory	
Polyamide resin	No Records	
Cyanoguanidine	Allergen, Central nervous system, Eyes, Irritant	
Hydrazide	Adrenals, Irritant, Kidney, Liver, Mutagen, Nervous System	
Polymer	Irritant, Lung	

12. ECOLOGICAL INFORMATION

Ecological information: Toxic 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

U.S. Department of Transportation Ground (49 CFR)

IDH number: 750046

Proper shipping name: Not regulated Hazard class or division: None

Identification number:

Packing group:

None

None

International Air Transportation (ICAO/IATA)

Proper shipping name: Not regulated

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

Water Transportation (IMO/IMDG)

Proper shipping name: Not regulated

Hazard class or division: None 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 minimus

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

None above reporting de minimus
None above reporting de minimus

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

IDH number: 750046

CEPA DSL/NDSL Status: Contains one or more components listed on the Non-Domestic Substances List. All other

components are listed on or are exempt from listing on the Domestic Substances List. Components listed on the NDSL must be tracked by all Canadian Importers of Record as required by Environment Canada. They may be imported into Canada in limited quantities.

Please contact Regulatory Affairs for additional details.

WHMIS hazard class: D.2.E

16. OTHER INFORMATION

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

Prepared by: Mark Mau, Regulatory Affairs Specialist

DISCLAIMER: The data contained herein are furnished for information only and are believed to be reliable. However, Henkel Corporation does not assume responsibility for any results obtained by persons over whose methods Henkel Corporation has no control. It is the user's responsibility to determine the suitability of Henkel's products or any production methods mentioned herein for a particular purpose, and to adopt such precautions as may be advisable for the protection of property and persons against any hazards that may be involved in the handling and use of any of Henkel Corporation's products. In light of the foregoing, Henkel Corporation specifically disclaims all warranties, express or implied, including warranties of merchantability and fitness for a particular purpose, arising from sale or use of Henkel Corporation's products. Henkel Corporation further disclaims any liability for consequential or incidental damages of any kind, including lost profits.