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1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product name: MA562 .050 12IN X 24IN 2SF
Product type: Adhesive for the Aerospace Industry
Company address: Henkel Corporation, 2850 Willow Pass Road, Bay Point, California 94565

Item No.: CF3100502 / IDH No. 750046
Region: United States
Contact Information: Telephone: 925.458.8000, Fax: 925.458.8030, Emergency Telephone: 860.571.5100, Internet www.aerospace.henkel.us

2. COMPOSITION/INFORMATION ON INGREDIENTS

Table with 5 columns: Hazardous components, %, ACGIH TLV, OSHA PEL, OTHER. Rows include Epoxy resin, Proprietary, Alumina trihydrate, Soda lime borosilicate glass, Methylene Diphenyl Bis (Dimethyl Urea), Guanidine derivative, Hydrazide, and p-Phenylenediamine-terephthaloyl chloride polymer.

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Physical state: Solid
Color: Amber
Odor: No information available

HMS:

HEALTH: 2*
FLAMMABILITY: 0
PHYSICAL HAZARD: 0
Personal Protection: See Section 8

WARNING: MAY CAUSE EYE AND SKIN IRRITATION.
MAY CAUSE ALLERGIC SKIN OR RESPIRATORY REACTION

Relevant routes of exposure: Skin contact, Eye contact, Inhalation, Ingestion

Potential Health Effects

Inhalation: Prolonged inhalation of large concentrations can be irritating to lungs, and mucous membranes of nose and throat. May cause allergic respiratory reaction.
Skin contact: May cause skin irritation with discomfort or rash. Prolonged or repeated contact can cause or aggravate dermatitis or other skin conditions.
Eye contact: May cause slight irritation to eyes on contact. Vapors may irritate eyes. Contact with eyes will cause irritation.
Ingestion: Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Existing conditions aggravated by exposure: Skin disorders.

See Section 11 for additional toxicological information.

4. FIRST AID MEASURES

Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.

Skin contact: Remove contaminated clothing and shoes. After contact with skin, wash immediately with plenty of water. Wash clothing before reuse. 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. Never give anything by mouth to an unconscious person. Get medical attention immediately.

Notes to physician: Treat symptomatically and supportively.

5. FIRE-FIGHTING MEASURES

Flash point: Greater than 93°C (200°F)

Autoignition temperature: Not determined

Flammable/Explosive limits-lower %: Not determined

Flammable/Explosive limits-upper %: Not determined

Extinguishing media: Water spray (fog), foam, dry chemical or carbon dioxide.

Special fire fighting procedures: Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear.

Unusual fire or explosion hazards: Concentrated vapors can be ignited by high intensity energy source. Approach fire from upwind to avoid hazardous vapors and toxic decomposition products.

Hazardous combustion products: Oxides of carbon.

6. ACCIDENTAL RELEASE MEASURES

Environmental precautions: Do not flush into surface water or sanitary sewer system.

Clean-up methods: Evacuate and ventilate spill area; dike spill to prevent entry into water system; wear full protective equipment during clean-up. Soak up with inert absorbent. Contain the spill in a closed container until disposal.

7. HANDLING AND STORAGE

Handling:	Avoid contact with eyes, skin and clothing. Do not breathe mist or vapors. Do not taste or swallow.
Storage:	Keep in a cool, well ventilated area away from heat, sparks and open flame. Keep container tightly closed until ready for use.
Incompatible products:	Oxidizing agents.

For information on product shelf life contact Henkel Customer Service at (800) 243-4874.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering controls:	Use local ventilation if general ventilation is insufficient to maintain vapor concentration below established exposure limits.
Respiratory protection:	When workplace hazards warrant the use of a respirator, appropriate respirators must be used, and a program that follows 29 CFR 1910.134 must be followed.
Skin protection:	Use impermeable gloves and protective clothing as necessary to prevent skin contact.
Eye/face protection:	Safety goggles or safety glasses with side shields.

See Section 2 for exposure limits.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Solid
Color:	Amber
Odor:	No information available
Vapor pressure:	Not determined
pH:	Not applicable
Boiling point/range:	Not determined
Melting point/range:	Not determined
Specific gravity:	Not determined
Vapor density:	Not determined
Evaporation rate:	Not determined
Solubility in water:	Not determined
Partition coefficient (n-octanol/water):	Not determined
VOC content:	<1%; <10 grams/liter

10. STABILITY AND REACTIVITY

Stability:	Stable
Hazardous polymerization:	None under normal processing. Polymerization may occur at elevated temperature or in the presence of incompatible materials.
Hazardous decomposition products:	Oxides of carbon.
Incompatibility:	Strong oxidizers. Strong acids. Strong bases.
Conditions to avoid:	Heat, flames and sparks.

11. TOXICOLOGICAL INFORMATION

Carcinogen Status

Hazardous components	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen
Epoxy resin Proprietary	No	No	No
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Alumina trihydrate 21645-51-2	No	No	No
Soda lime borosilicate glass 65997-17-3	Suspect Carcinogen	Group 2B	Yes
Methylene Diphenyl Bis (Dimethyl Urea) 10097-09-3	No	No	No
Guanidine derivative Proprietary	No	No	No
Hydrazide 80-51-3	No	No	No
p-Phenylenediamine-terephthaloyl chloride polymer 26125-61-1	No	No	No

Literature Referenced Target Organ & Other Health Effects

Hazardous components	Health Effects/Target Organs
Epoxy resin Proprietary	Allergen, Irritant
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Alumina trihydrate 21645-51-2	Irritant, Lung, Respiratory
Soda lime borosilicate glass 65997-17-3	Allergen, Respiratory
Methylene Diphenyl Bis (Dimethyl Urea) 10097-09-3	No Records
Guanidine derivative Proprietary	Allergen, Central nervous system, Eyes, Irritant
Hydrazide 80-51-3	Irritant, Nervous System, Liver, Kidney, Adrenals, Mutagen
p-Phenylenediamine-terephthaloyl chloride polymer 26125-61-1	Irritant, Lung

12. ECOLOGICAL INFORMATION

Ecological information: Not available

13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

Recommended method of disposal: Legal disposition of wastes is the responsibility of the owner/generator of the waste. Applicable federal, state and/or local regulations must be followed during treatment, storage, or disposal of waste containing this product.

EPA 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

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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: 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.

CERCLA/SARA Section 302 EHS: None above reporting de minimus.
CERCLA/SARA Section 311/312: Immediate Health Hazard, Delayed Health Hazard
CERCLA/SARA 313: None above reporting de minimus.

California Proposition 65: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

Canada Regulatory Information

CEPA DSL/NDSL Status: Contains one or more components listed on the Non-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. Revised to new format.

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