

Revision Date: 12/13/2005

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1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product name: HYSOL EA 9658 .100 NWG
Product type: Adhesive for the Aerospace Industry
Company address:
 Henkel Corporation
 1001 Trout Brook Crossing
 Rocky Hill, Connecticut 06067

Item No. : AT9361509 / IDH No. 870989
Region: United States
Contact Information:
 Telephone: (860) 571-5100
 Emergency telephone: (860) 571-5100
 Internet: www.loctite.com

The chemical substance described in and provided under this invoice by the Henkel Corporation ("Henkel") is provided solely for RESEARCH AND DEVELOPMENT USE ONLY, as defined in and regulated by the Toxic Substances Control Act, 15 USC 2601 et seq. and 40 CFR 720.36. Failure to comply with the requirement of the above cited statute and related regulations may result in civil and criminal liability. By its acceptance of the chemical substance supplied hereunder, the user agrees, and represents and warrants to Henkel the following: (1) That said chemical substance will be used for RESEARCH AND DEVELOPMENT USE ONLY and for no other purpose; (2) That the chemical substance supplied hereunder and mixtures, articles, or other products containing this chemical substance, will not be delivered to any other party for any purpose other than disposal in compliance with all applicable federal, state and local law, without the prior written approval of Henkel;; and (3) That should the user become aware that the chemical substance is being used for other than RESEARCH AND DEVELOPMENT ONLY, it will immediately cease such use and inform Henkel of the unauthorized use. Contains one or more component(s) that are not listed on the Toxic Substances Control Act Inventory and are not exempt from listing.

2. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Hazardous components</u>	<u>%</u>	<u>ACGIH TLV</u>	<u>OSHA PEL</u>	<u>OTHER</u>
Aluminum 7429-90-5	30-60	10 mg/m ³ TWA metal dust 5 mg/m ³ TWA as Al	15 mg/m ³ TWA (total), 5 mg/m ³ (respirable)	None
Polyfunctional epoxy resin Proprietary	10-30	None	None	None
Epoxy resin Proprietary	10-30	None	None	None
Modified epoxy resin Unknown	5-10	None	None	None
Aromatic polyamine Proprietary	5-10	None	None	None
Guanidine derivative Proprietary	1-5	None	None	None
Filler Proprietary	1-5	10mg/m ³ Inhalable fraction, 3mg/m ³ Respirable fraction, TWA	5mg/m ³ Respirable dust, 15mg/m ³ Total dust	None

3. HAZARDS IDENTIFICATION

Item No. : AT9361509 / IDH No. 870989

Product name: HYSOL EA 9658 .100 NWG

EMERGENCY OVERVIEW

HMIS:

Physical state: Solid / Film
Color: Grey
Odor: None

HEALTH: 2*
FLAMMABILITY: 1
PHYSICAL HAZARD: 1
Personal Protection: See Section 8

WARNING: CAUSES EYE IRRITATION.
MAY CAUSE SKIN IRRITATION.
MAY CAUSE ALLERGIC SKIN REACTION.
HARMFUL IF SWALLOWED, ABSORBED THROUGH SKIN OR INHALED.

Relevant routes of exposure: Skin, Eyes, Inhalation

Potential Health Effects

Inhalation: This material does not normally present an inhalation hazard, however, in applications where vapors (caused by high temperatures) or mists (caused by mixing) are created, breathing may cause respiratory tract irritation. May cause irritation to nose and throat. May be harmful if inhaled.

Skin contact: May cause allergic skin reaction. May be harmful if absorbed through skin. May cause skin irritation.

Eye contact: Vapors may irritate eyes. Contact with eyes will cause irritation. Severe eye irritation.

Ingestion: Not expected under normal conditions of use. May be harmful if swallowed.

Existing conditions aggravated by exposure: Skin allergies. Skin disorders.

See Section 11 for additional toxicological information.

4. FIRST AID MEASURES

Inhalation: Remove to fresh air. If symptoms develop and persist, get medical attention.

Skin contact: Remove contaminated clothing and shoes. Wash with soap and water. If a person feels unwell or symptoms of skin irritation appear, consult a physician.

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

Ingestion: Give a conscious person several glasses of water. 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: Not applicable Product is a solid.

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: Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA).

Unusual fire or explosion hazards: May liberate large quantities of dense, foul-smelling smoke which may contain unidentified toxic gasses.

Hazardous combustion products: Oxides of carbon and nitrogen, aldehydes, acids and undetermined organics.

6. ACCIDENTAL RELEASE MEASURES

Environmental precautions: Do not allow material to contaminate ground water system.

Clean-up methods: Scrape up as much material as possible. Store in a closed container until ready for disposal.

7. HANDLING AND STORAGE

- Handling:** Avoid contact with eyes, skin and clothing. Use only with adequate ventilation. Wash thoroughly after handling.
- Storage:** Store in a cool, dry place under low relative humidity, away from excessive heat.
- Incompatible products:** Keep away from strong oxidizing agents, strong Lewis or mineral acids.

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

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

- Engineering controls:** Local exhaust ventilation is recommended when general ventilation is not sufficient to control airborne contamination.
- Respiratory protection:** Use a NIOSH approved respirator if ventilation is inadequate. Observe OSHA regulations for respiratory use (29 CFR 1910.134).
- Skin protection:** Use impermeable gloves and protective clothing as necessary to prevent skin contact.
- Eye/face protection:** Goggles. Safety glasses

See Section 2 for exposure limits.

9. PHYSICAL AND CHEMICAL PROPERTIES

- Physical state:** Solid / Film
- Color:** Grey
- Odor:** None
- Vapor pressure:** Nil
- pH:** Not determined
- 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:** Negligible.
- Partition coefficient (n-octanol/water):** Not determined
- VOC content:** <1% (calculated)

10. STABILITY AND REACTIVITY

- Stability:** Stable.
- Hazardous polymerization:** Polymerization may occur at elevated temperature or in the presence of incompatible materials.
- Hazardous decomposition products:** Oxides of carbon and nitrogen, aldehydes, acids and undetermined organics.
- Incompatibility:** Strong oxidizers. Acids. Alkalis.
- Conditions to avoid:** Prolonged exposure to heat.

11. TOXICOLOGICAL INFORMATION

Carcinogen Status

Hazardous components	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen
Aluminum 7429-90-5	No	No	No
Polyfunctional epoxy resin Proprietary	No	No	No
Epoxy resin Proprietary	No	No	No
Modified epoxy resin Unknown	No	No	No
Aromatic polyamine Proprietary	No	No	No
Guanidine derivative Proprietary	No	No	No
Filler Proprietary	No	No	No

Literature Referenced Target Organ & Other Health Effects

Hazardous components	Health Effects/Target Organs
Aluminum 7429-90-5	Central nervous system, Irritant, Lung
Polyfunctional epoxy resin Proprietary	Allergen, Blood, Central nervous system, Gastrointestinal, Irritant, Kidney, Liver, Nervous System, Mutagen
Epoxy resin Proprietary	Allergen, Irritant
Modified epoxy resin Unknown	No data
Aromatic polyamine Proprietary	Blood, Nervous System, Eyes, Skin, Kidney, Irritant, Allergen
Guanidine derivative Proprietary	Allergen, Central nervous system, Eyes, Irritant
Filler Proprietary	Irritant

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: This product may contain traces of benzene and may be classified as a hazardous waste (waste number(s) D018) under EPA RCRA (40 CFR 261.24). However this product is only classifiable as hazardous waste if it exhibits the characteristics of toxicity as shown by the toxicity characteristic leaching procedure (TCLP). Under RCRA, it is the responsibility of the end user of this product to determine whether it meets this criteria at the time of disposal.

14. TRANSPORT INFORMATION

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

Proper shipping name: Not restricted
Hazard class or division: None
Identification number: None
Packing group: None

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International Air Transportation (ICAO/IATA):

Proper shipping name: Not restricted
Hazard class or division: None
Identification number: None
Packing group: None

Water Transportation (IMO/IMDG):

Proper shipping name: Not restricted
Hazard class or division: None
Identification number: None
Packing group: None
Marine pollutant: None

15. REGULATORY INFORMATION

United States Regulatory Information

TSCA 8 (b) Inventory Status: One or more components are not listed on or exempt from listing on the Toxic Substances Control Act Inventory or have not been fully investigated. This product may only be used for Research and Development purposes. The health effects of this product have not been investigated and it should be used only by, or under the direction of a technically competent individual.

TSCA 12 (b) Export Notification: None.

CERCLA/SARA Section 302 EHS: None.
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/NDL 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.

WHMIS hazard class: D.2.B

16. OTHER INFORMATION

This material safety data sheet contains changes from the previous version in sections: First issue.

Prepared by: Regulatory Affairs

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