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## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product name:** HYSOL EA 9658 .060 PSF UNS  
**Product type:** Adhesive for the Aerospace Industry  
**Company address:**  
Henkel Corporation  
2850 Willow Pass Road  
Bay Point, California 94565

**Item No. :** AF9121509 / IDH No. 866515  
**Region:** United States  
**Contact Information:**  
Telephone: 925.458.8000 Fax : 925.458.8030.  
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Internet www.aerospace.henkel.us

Contains one or more components for which a Toxic Substances Control Act (TSCA) Low Volume Exemption (LVE) applies. See Section 15.

## 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 <sup>3</sup> TWA 5 mg/m <sup>3</sup> TWA	15 mg/m <sup>3</sup> TWA (total), 5 mg/m <sup>3</sup> ( respirable)	None
Polyfunctional epoxy resin Proprietary	10-30	None	None	None
Epoxy resin Proprietary	5-10	None	None	None
Aromatic polyamine Proprietary	5-10	None	None	None
Epoxy resin adduct Unknown	5-10	None	None	None
Epoxy resin adduct Unknown	1-5	None	None	None
Synthetic rubber Proprietary	1-5	None	None	None
Guanidine derivative Proprietary	1-5	None	None	None
Filler Proprietary	1-5	10mg/m <sup>3</sup> Inhalable fraction, 3mg/m <sup>3</sup> Respirable fraction, TWA	5mg/m <sup>3</sup> Respirable dust, 15mg/m <sup>3</sup> Total dust	None

## 3. HAZARDS IDENTIFICATION

Item No. : AF9121509 / IDH No. 866515

Product name: HYSOL EA 9658 .060 PSF UNS

## EMERGENCY OVERVIEW

### HMIS:

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

**HEALTH:** 2\*  
**FLAMMABILITY:** 1  
**PHYSICAL HAZARD:** 0  
**Personal Protection:** See Section 8

**WARNING:** MAY BE HARMFUL IF SWALLOWED, ABSORBED THROUGH SKIN OR INHALED.  
MAY CAUSE ALLERGIC SKIN REACTION.  
MAY CAUSE EYE, SKIN AND RESPIRATORY TRACT IRRITATION.

**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

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

For information on product shelf life, please review labels on container or check the Technical Data Sheet.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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

See Section 2 for exposure limits.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical state:</b>	Solid / Film
<b>Color:</b>	Grey
<b>Odor:</b>	None
<b>Vapor pressure:</b>	Nil
<b>pH:</b>	Not determined
<b>Boiling point/range:</b>	Not determined
<b>Melting point/range:</b>	Not determined
<b>Specific gravity:</b>	Not determined
<b>Vapor density:</b>	Not determined
<b>Evaporation rate:</b>	Not determined
<b>Solubility in water:</b>	Negligible.
<b>Partition coefficient (n-octanol/water):</b>	Not determined
<b>VOC content:</b>	<1% (calculated)

## 10. STABILITY AND REACTIVITY

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

## 11. TOXICOLOGICAL INFORMATION

### Carcinogen Status

<b>Hazardous components</b>	<b>NTP Carcinogen</b>	<b>IARC Carcinogen</b>	<b>OSHA Carcinogen</b>
Aluminum 7429-90-5	No	No	No
Polyfunctional epoxy resin Proprietary	No	No	No
Epoxy resin Proprietary	No	No	No
Aromatic polyamine Proprietary	No	No	No
Epoxy resin adduct Unknown	No	No	No
Epoxy resin adduct Unknown	No	No	No
Synthetic rubber Proprietary	No	No	No
Guanidine derivative Proprietary	No	No	No
Filler Proprietary	No	No	No

**Literature Referenced Target Organ & Other Health Effects**

<b>Hazardous components</b>	<b>Health Effects/Target Organs</b>
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
Aromatic polyamine Proprietary	Blood, Nervous System, Eyes, Skin, Kidney, Irritant, Allergen
Epoxy resin adduct Unknown	No data
Epoxy resin adduct Unknown	No data
Synthetic rubber Proprietary	No Target Organs
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:** Not a RCRA hazardous waste.

### 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

**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:** All components of this product are listed on the U.S. Toxic Substances Control Act (TSCA) or are exempted from listing because a Low Volume Exemption (LVE) has been granted in accordance with 40 CFR 723.50.

**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.

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