



Revision Number: 002.2

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**1. PRODUCT AND COMPANY IDENTIFICATION**

**Product name:** LOCTITE EA 9203 GAL AERO known as HYSOL EA 9203 GAL  
**Product type:** Preparation for adhesive bonding in the aerospace industry  
**Company address:** Henkel Corporation  
 2850 Willow Pass Road  
 Bay Point, California 94565

**IDH number:** 549888  
**Item number:** PR9014018  
**Region:** United States

**Contact information:**  
 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  
 TRANSPORT EMERGENCY Phone: CHEMTREC  
 1-800-424-9300 (toll free) or 1-703-527-3887  
 Internet: www.henkelna.com

**2. HAZARDS IDENTIFICATION**

**EMERGENCY OVERVIEW**

<b>Physical state:</b>	Liquid	<b>HEALTH:</b>	2
<b>Color:</b>	Blue	<b>FLAMMABILITY:</b>	3
<b>Odor:</b>	Alcohol	<b>PHYSICAL HAZARD:</b>	1
		<b>Personal Protection:</b>	See MSDS Section 8

**WARNING:** FLAMMABLE!  
 MAY CAUSE EYE, SKIN AND RESPIRATORY TRACT IRRITATION.  
 MAY CAUSE ALLERGIC SKIN REACTION.

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

**Potential Health Effects**

**Inhalation:** Inhalation of vapors or mists of the product may be irritating to the respiratory system. Vapors may cause headaches, nausea, dizziness and respiratory tract irritation.

**Skin contact:** May cause severe irritation due to defatting of skin. May cause allergic skin reaction. May be harmful if absorbed through skin.

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

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

**Existing conditions aggravated by exposure:** 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	%
Ethanol	64-17-5	60 - 100
Methanol	67-56-1	1 - 5
Ethyl acetate	141-78-6	0.1 - 1
Methyl isobutyl ketone	108-10-1	0.1 - 1

#### 4. FIRST AID MEASURES

<b>Inhalation:</b>	If inhaled, immediately remove the affected person to fresh air. If symptoms develop and persist, get medical attention.
<b>Skin contact:</b>	Remove contaminated clothing and footwear. Immediately wash skin thoroughly with soap and water. If symptoms develop and persist, get medical attention.
<b>Eye contact:</b>	In case of contact with the eyes, rinse immediately with plenty of water for 15 minutes, and seek immediate medical attention.
<b>Ingestion:</b>	Get immediate medical attention. Do not induce vomiting.
<b>Notes to physician:</b>	Treat symptomatically and supportively.

#### 5. FIRE FIGHTING MEASURES

<b>Flash point:</b>	9 °C (48.2 °F)
<b>Autoignition temperature:</b>	Not determined
<b>Flammable/Explosive limits - lower:</b>	3.3 %
<b>Flammable/Explosive limits - upper:</b>	31 %
<b>Extinguishing media:</b>	Water spray (fog), foam, dry chemical or carbon dioxide.
<b>Special firefighting procedures:</b>	Wear full protective clothing. Wear self-contained breathing apparatus.
<b>Unusual fire or explosion hazards:</b>	Vapors may travel considerable distance to source of ignition and flash back. May liberate large quantities of dense, foul-smelling smoke which may contain unidentified toxic gasses.
<b>Hazardous combustion products:</b>	Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons. Oxides of nitrogen.

#### 6. ACCIDENTAL RELEASE MEASURES

<b>Use personal protection recommended in Section 8, isolate the hazard area and deny entry to unnecessary and unprotected personnel.</b>	
<b>Environmental precautions:</b>	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.
<b>Clean-up methods:</b>	Absorb spill with inert material. Shovel material into appropriate container for disposal. Dispose of according to Federal, State and local governmental regulations.

#### 7. HANDLING AND STORAGE

<b>Handling:</b>	Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Do not take internally. Avoid breathing vapors or mists of this product. Remove all sources of ignition. Do not cut, grind, weld, or drill on or near this container.
<b>Storage:</b>	For safe storage, store between 0 °C (32°F) and 25 °C (77°F) Keep container tightly closed and in a cool, well-ventilated place away from incompatible materials.

**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
Ethanol	1,000 ppm STEL	1,000 ppm (1,900 mg/m <sup>3</sup> ) TWA	None	None
Methanol	200 ppm TWA (SKIN) 250 ppm STEL	200 ppm (260 mg/m <sup>3</sup> ) TWA	None	None
Ethyl acetate	400 ppm TWA	400 ppm (1,400 mg/m <sup>3</sup> ) TWA	None	None
Methyl isobutyl ketone	75 ppm STEL 20 ppm TWA	100 ppm (410 mg/m <sup>3</sup> ) TWA	None	None

**Engineering controls:**

Work should be done in an adequately ventilated area (i.e., ventilation sufficient to maintain concentrations below one half of the PEL and other relevant standards). Local exhaust ventilation is recommended when general ventilation is not sufficient to control airborne contamination.

**Respiratory protection:**

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

**Eye/face protection:**

Wear chemical goggles; face shield (if splashing is possible).

**Skin protection:**

Wear impervious gloves for prolonged contact. Use of impervious apron and boots are recommended.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical state:</b>	Liquid
<b>Color:</b>	Blue
<b>Odor:</b>	Alcohol
<b>Odor threshold:</b>	Not available.
<b>pH:</b>	Not determined
<b>Vapor pressure:</b>	44.6 mm hg (20 °C (68°F))
<b>Boiling point/range:</b>	78 °C (172.4 °F) (1,013 hPa)
<b>Melting point/ range:</b>	Not available.
<b>Specific gravity:</b>	0.8
<b>Vapor density:</b>	Not determined
<b>Flash point:</b>	9 °C (48.2 °F)
<b>Flammable/Explosive limits - lower:</b>	3.3 %
<b>Flammable/Explosive limits - upper:</b>	31 %
<b>Autoignition temperature:</b>	Not determined
<b>Evaporation rate:</b>	Not applicable
<b>Solubility in water:</b>	Soluble
<b>Partition coefficient (n-octanol/water):</b>	Not available.
<b>VOC content:</b>	757.49 g/l per SCAQMD Rule 1124 [EPA Test Method 24/304-91] (estimated)

## 10. STABILITY AND REACTIVITY

<b>Stability:</b>	Stable at normal conditions.
<b>Hazardous reactions:</b>	Will not occur.
<b>Hazardous decomposition products:</b>	Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons. Oxides of nitrogen.
<b>Incompatible materials:</b>	Keep away from strong oxidizing agents, strong Lewis or mineral acids.
<b>Conditions to avoid:</b>	Heat, flames, sparks and other sources of ignition.

## 11. TOXICOLOGICAL INFORMATION

Hazardous components	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Ethanol	No	No	No
Methanol	No	No	No
Ethyl acetate	No	No	No
Methyl isobutyl ketone	No	Group 2B	No

Hazardous components	Health Effects/Target Organs
Ethanol	Irritant, Central nervous system
Methanol	Eyes, Heart, Irritant, Kidney, Liver, Metabolic, Nervous System, Reproductive
Ethyl acetate	Blood, Central nervous system, Irritant
Methyl isobutyl ketone	Irritant, Central nervous system

## 12. ECOLOGICAL INFORMATION

Ecological information: Not available.

## 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: If discarded, this product is considered a RCRA ignitable waste, D001.

## 14. TRANSPORT INFORMATION

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

Proper shipping name: Ethanol solutions  
Hazard class or division: 3  
Identification number: UN 1170  
Packing group: II

### International Air Transportation (ICAO/IATA)

Proper shipping name: Ethanol solution  
Hazard class or division: 3  
Identification number: UN 1170  
Packing group: II

### Water Transportation (IMO/IMDG)

Proper shipping name: ETHANOL SOLUTION  
Hazard class or division: 3  
Identification number: UN 1170  
Packing group: II

## 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: None above reporting de minimus  
CERCLA/SARA Section 311/312: Immediate Health, Delayed Health, Fire  
CERCLA/SARA 313: This product contains the following toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (40 CFR 372). Methanol (CAS# 67-56-1).

California Proposition 65: No California Proposition 65 listed chemicals are known to be present.

**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, B.2

**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

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