



Revision Number: 003.0

Issue date: 03/18/2025

## 1. IDENTIFICATION

**Product name:** LOCTITE EA 9203 GAL AERO known as HYSOL EA 9203 GAL  
**Product type/** Preparation for adhesive bonding in the  
**Recommended use:** Aerospace Industry  
**Restriction of Use:** None identified  
**Company address:** Henkel Corporation  
 One Henkel Way  
 Rocky Hill, Connecticut 06067

**IDH number:** 549888  
**Item number:** PR9014018  
**Region:** United States  
**Contact information:**  
 Telephone: +1 (860) 571-5100  
 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  
 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

**DANGER:** H225 - HIGHLY FLAMMABLE LIQUID AND VAPOUR.  
 H302 - HARMFUL IF SWALLOWED.  
 H317 - MAY CAUSE AN ALLERGIC SKIN REACTION.  
 H319 - CAUSES SERIOUS EYE IRRITATION.  
 H370 - CAUSES DAMAGE TO ORGANS.

| HAZARD CLASS                                     | HAZARD CATEGORY |
|--------------------------------------------------|-----------------|
| FLAMMABLE LIQUID                                 | 2               |
| ACUTE TOXICITY ORAL                              | 4               |
| EYE IRRITATION                                   | 2A              |
| SKIN SENSITIZATION                               | 1               |
| SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE | 1               |

### PICTOGRAM(S)



### Precautionary Statements

#### Prevention:

P210 - Keep away from heat, sparks, open flames, hot surfaces - no smoking.  
 P233 - Keep container tightly closed.  
 P240 - Ground and bond container and receiving equipment.  
 P241 - Use explosion-proof equipment.  
 P242 - Use non-sparking tools.  
 P243 - Take action to prevent static discharges.  
 P260 - Do not breathe vapors, mist, or spray.  
 P264 - Wash affected area thoroughly after handling.  
 P270 - Do not eat, drink or smoke when using this product.  
 P272 - Contaminated work clothing should not be allowed out of the workplace.

#### Response:

P280 - Wear protective gloves, clothing, eye and face protection.  
 P301+P312+P330 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
 P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing.  
 P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P308+P311 - If exposed or concerned: Call a POISON CENTER/doctor/...

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|                  |                                                                                                                                                                                                                                                                                                         |
|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Storage:</b>  | P333+P313 - If skin irritation or rash occurs: Get medical attention.<br>P337+P313 - If eye irritation persists: Get medical attention.<br>P362+P364 - Take off contaminated clothing and wash it before reuse.<br>P370+P378 - In case of fire: Use foam, dry chemical or carbon dioxide to extinguish. |
| <b>Disposal:</b> | P403+P235 - Store in a well-ventilated place. Keep cool.<br>P405 - Store locked up.<br>P501 - Dispose of contents and/or container according to Federal, State/Provincial and local governmental regulations.                                                                                           |

**Other hazards** Not available.

Classification complies with OSHA Hazard Communication Standard (29 CFR 1910.1200) and is consistent with the provisions of the United Nations Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

See Section 11 for additional toxicological information.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

| Hazardous Component(s)                                   | CAS Number | Weight %* |
|----------------------------------------------------------|------------|-----------|
| Ethanol                                                  | 64-17-5    | 80 - 100  |
| Methanol                                                 | 67-56-1    | 1 - 5     |
| Methyl isobutyl ketone                                   | 108-10-1   | 0.1 - 1   |
| N-(3-(Trimethoxysilyl)propyl)ethylenediamine             | 1760-24-3  | 0.1 - 1   |
| Solvent naphtha (petroleum), light aliph., <0.1% benzene | 64742-89-8 | 0.1 - 1   |

\* Exact percentages may vary or are trade secret. Concentration range is provided to assist users in providing appropriate protections.

### 4. FIRST AID MEASURES

#### First Aid Measures by likely routes of exposure

|                                                                                  |                                                                                                                                                          |
|----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| <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>Most important symptoms and effects (acute and delayed):</b>                  | The most important known symptoms and effects, both acute and delayed, are described in Section 11: Toxicological Information.                           |
| <b>Indication of any immediate medical attention / special treatment needed:</b> | Treat symptomatically and supportively.                                                                                                                  |

### 5. FIRE FIGHTING MEASURES

|                                           |                                                                                                                                                                                        |
|-------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Extinguishing media:</b>               | Water spray (fog), foam, dry chemical or carbon dioxide.                                                                                                                               |
| <b>Improper extinguishing agents:</b>     | Not available.                                                                                                                                                                         |
| <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. |

**Hazardous combustion products:**

Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons. Oxides of nitrogen.

## 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:**

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

**Handling:**

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.

**Storage:**

For safe storage, store between -999 °C (-1,766.2 °F) and 30 °C (86°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 Component(s) | ACGIH TLV                          | OSHA PEL                                 | AIHA WEEL | OTHER |
|------------------------|------------------------------------|------------------------------------------|-----------|-------|
| Ethanol                | 1,000 ppm STEL                     | 1,000 ppm (1,900 mg/m <sup>3</sup> ) PEL | None      | None  |
| Methanol               | 200 ppm TWA (SKIN)<br>250 ppm STEL | 200 ppm (260 mg/m <sup>3</sup> ) PEL     | None      | None  |
| Methyl isobutyl ketone | 20 ppm TWA<br>75 ppm STEL          | 100 ppm (410 mg/m <sup>3</sup> ) PEL     | None      | None  |

**Engineering controls:**

Use local ventilation if general ventilation is insufficient to maintain vapor concentration below established exposure limits.

**Respiratory protection:**

If ventilation is not sufficient to effectively prevent buildup of vapor/mist/fume/dust, appropriate NIOSH/MSHA respiratory protection must be provided.

**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>                                 | 7                                   |
| <b>Vapor pressure:</b>                     | 60 hPa (20 °C (68°F))               |
| <b>Boiling point/range:</b>                | 78 °C (172.4 °F) 1,013 hPa          |
| <b>Melting point/ range:</b>               | Not applicable, Product is a liquid |
| <b>Density/Relative density:</b>           | 0.8                                 |
| <b>Relative vapor density:</b>             | 2.5 20 °C                           |
| <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>Flammability:</b>                                              | Flammable liquid                                                        |
| <b>Evaporation rate:</b>                                          | Not applicable                                                          |
| <b>Solubility:</b>                                                | Soluble Water                                                           |
| <b>Partition coefficient n-octanol/water (logarithmic value):</b> | Not available.                                                          |
| <b>VOC content:</b>                                               | 757.49 g/l per SCAQMD Rule 1124 [EPA Test Method 24/304-91] (estimated) |
| <b>Dynamic viscosity:</b>                                         | Not available.                                                          |
| <b>Kinematic viscosity:</b>                                       | 1 mm <sup>2</sup> /s                                                    |
| <b>Particle characteristics:</b>                                  | Not applicable, Product is a liquid                                     |
| <b>Decomposition temperature:</b>                                 | > 200 °C                                                                |

## 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>Reactivity:</b>                       | Not available.                                                                                                                       |
| <b>Conditions to avoid:</b>              | Heat, flames, sparks and other sources of ignition.                                                                                  |

## 11. TOXICOLOGICAL INFORMATION

|                                   |                                   |
|-----------------------------------|-----------------------------------|
| <b>Likely routes of exposure:</b> | Skin, Inhalation, Eyes, Ingestion |
|-----------------------------------|-----------------------------------|

## Potential Health Effects/Symptoms

|                      |                                                                                                                                   |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| <b>Inhalation:</b>   | Inhalation of vapors or mists of the product may be irritating to the respiratory system. May cause respiratory tract irritation. |
| <b>Skin contact:</b> | May cause allergic skin reaction.                                                                                                 |
| <b>Eye contact:</b>  | Causes serious eye irritation.                                                                                                    |
| <b>Ingestion:</b>    | Not expected under normal conditions of use.                                                                                      |

| Hazardous Component(s)                                   | LD50s and LC50s                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|----------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Ethanol                                                  | Oral LD50 (Rat) = 9.9 g/kg<br>Oral LD50 (Rat) = 6.2 g/kg<br>Oral LD50 (Rat) = 17.8 g/kg<br>Oral LD50 (Rat) = 11.5 g/kg<br>Oral LD50 (Mouse) = 3,450 mg/kg<br>Oral LD50 (Rat) = 10.6 g/kg<br>Oral LD50 (Rat) = 7,060 mg/kg<br>Inhalation LC50 (Rat, 4 h) = 133.8 mg/l<br>Inhalation LC50 (Rat, 4 h) = 124.7 mg/l<br>Inhalation LC50 (Rat, 4 h) = > 115.9 mg/l<br>Inhalation LC50 (Rat, 4 h) = 130.7 mg/l<br>Inhalation LC50 (Rat, 4 h) = 128.2 mg/l<br>Inhalation LC50 (Rat, 4 h) = 116.9 mg/l<br>Inhalation LC50 (Mouse, 4 h) = 39 mg/l |
| Methanol                                                 | Oral LD50 (Rat) = 5,628 mg/kg<br>Oral LD50 (Mouse) = 7,300 mg/kg<br>Oral LD50 (Rabbit) = 14.4 g/kg<br>Dermal LD50 (Rabbit) = 15,800 mg/kg                                                                                                                                                                                                                                                                                                                                                                                               |
| Methyl isobutyl ketone                                   | Oral LD50 (Rat) = 2,080 mg/kg<br>Dermal LD50 (Rabbit) = > 16,000 mg/kg<br>Inhalation LC50 (Rat, 4 h) = > 2000 - < 4000 ppm                                                                                                                                                                                                                                                                                                                                                                                                              |
| N-(3-(Trimethoxysilyl)propyl)ethylenediamine             | Inhalation LC50 (Rat, 4 h) = > 1.49 - < 2.44 mg/l                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Solvent naphtha (petroleum), light aliph., <0.1% benzene | Inhalation LC50 (Rat, 4 h) = > 7,630 mg/m3<br>Inhalation LC50 (Rat, 4 h) = > 5,610 mg/m3                                                                                                                                                                                                                                                                                                                                                                                                                                                |

| Hazardous Component(s)                                   | Immediate Health Effects | Delayed Health Effects | Chronic Health Effects              |
|----------------------------------------------------------|--------------------------|------------------------|-------------------------------------|
| Ethanol                                                  | Irritant                 |                        | Central nervous system              |
| Methanol                                                 | Irritant                 |                        | Eyes<br>Metabolic<br>Nervous System |
| Methyl isobutyl ketone                                   | Irritant                 |                        | Central nervous system              |
| N-(3-(Trimethoxysilyl)propyl)ethylenediamine             | Irritant                 | Allergen               |                                     |
| Solvent naphtha (petroleum), light aliph., <0.1% benzene | Irritant                 |                        |                                     |

| Hazardous Component(s)                                   | NTP Carcinogen                | IARC Carcinogen | OSHA Carcinogen (Specifically Regulated) |
|----------------------------------------------------------|-------------------------------|-----------------|------------------------------------------|
| Ethanol                                                  | Known To Be Human Carcinogen. | Group 1         | No                                       |
| Methanol                                                 | No                            | No              | No                                       |
| Methyl isobutyl ketone                                   | No                            | Group 2B        | No                                       |
| N-(3-(Trimethoxysilyl)propyl)ethylenediamine             | No                            | No              | No                                       |
| Solvent naphtha (petroleum), light aliph., <0.1% benzene | No                            | No              | No                                       |

## 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.

### 14. TRANSPORT INFORMATION

The transport information provided in this section only applies to the material/formulation itself, and is not specific to any packaging.

#### 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 as active or are exempt from listing on the Toxic Substances Control Act (TSCA) inventory.

**TSCA 12 (b) Export Notification:** None above reporting de minimis

**CERCLA/SARA Section 302 EHS:** None above reporting de minimis.  
**CERCLA/SARA Section 311/312:** Please refer to the GHS classification in Section 2  
**CERCLA/SARA Section 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). Methyl isobutyl ketone (CAS# 108-10-1). Ethanol (CAS# 64-17-5) 100 lbs. (45.4 kg)  
Solvent naphtha (petroleum), light aliph., <0.1% benzene (CAS# 64742-89-8) 100 lbs. (45.4 kg)

**CERCLA Reportable quantity:**

**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

**CEPA DSL/NDSL Status:** All components are listed on or are exempt from listing on the Canadian Domestic Substances List.

### 16. OTHER INFORMATION

This safety data sheet contains changes from the previous version in sections: Not available.

**Prepared by:** Product Safety and Regulatory Affairs

**Issue date:** 03/18/2025

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