


Revision Number: 005.0

Issue date: 04/14/2021

1. PRODUCT AND COMPANY IDENTIFICATION

| | | | |
|-------------------------------|---|---------------------|---------------|
| Product name: | LOCTITE HC 3056 AERO PART A GAL known as TF 3056 PART A GALLON | IDH number: | 936922 |
| Product type/use: | Adhesive for the Aerospace Industry | Item number: | AA9153018 |
| Restriction of Use: | None identified | Region: | United States |
| Company address: | Contact information: | | |
| Henkel Corporation | Telephone: +1 (860) 571-5100 | | |
| One Henkel Way | MEDICAL EMERGENCY Phone: Poison Control Center | | |
| Rocky Hill, Connecticut 06067 | 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

| | |
|-----------------|---|
| WARNING: | CAUSES SKIN IRRITATION. MAY CAUSE AN ALLERGIC SKIN REACTION. CAUSES SERIOUS EYE IRRITATION. SUSPECTED OF CAUSING CANCER. |
|-----------------|---|

| HAZARD CLASS | HAZARD CATEGORY |
|--------------------|-----------------|
| SKIN IRRITATION | 2 |
| EYE IRRITATION | 2A |
| SKIN SENSITIZATION | 1 |
| CARCINOGENICITY | 2 |

PICTOGRAM(S)


Precautionary Statements

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| Prevention: | Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid breathing dust or fumes. Wash affected area thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves, clothing, eye and face protection. |
| Response: | IF ON SKIN: Wash with plenty of water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF exposed or concerned: Get medical attention. If skin irritation or rash occurs: Get medical attention. If eye irritation persists: Get medical attention. Take off contaminated clothing. |
| Storage: | Store locked up. |
| Disposal: | Dispose of contents and/or container according to Federal, State/Provincial and local governmental regulations. |

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 | Percentage* |
|----------------------------------|------------|-------------|
| Bisphenol-F Epichlorhydrin resin | 9003-36-5 | 30 - 60 |
| Glass, oxide, chemicals | 65997-17-3 | 10 - 30 |

| | | |
|--|------------|---------|
| Epichlorohydrin-4,4'-isopropylidene diphenol resin | 25068-38-6 | 5 - 10 |
| antimony trioxide | 1309-64-4 | 5 - 10 |
| 2,3-epoxypropyl o-tolyl ether | 2210-79-9 | 1 - 5 |
| Triphenyl phosphite | 101-02-0 | 1 - 5 |
| Dimethyl phosphonate | 868-85-9 | 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

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| Inhalation: | If inhaled, immediately remove the affected person to fresh air. If symptoms develop and persist, get medical attention. |
| Skin contact: | Remove contaminated clothing and footwear. Immediately wash skin thoroughly with soap and water. If symptoms develop and persist, get medical attention. |
| Eye contact: | In case of contact with the eyes, rinse immediately with plenty of water for 15 minutes, and seek immediate medical attention. |
| Ingestion: | Get immediate medical attention. Do not induce vomiting. |
| Symptoms: | See Section 11. |
| Notes to physician: | Treat symptomatically and supportively. |

5. FIRE FIGHTING MEASURES

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| Extinguishing media: | Water spray (fog), foam, dry chemical or carbon dioxide. |
| Special firefighting procedures: | Wear full protective clothing. Wear self-contained breathing apparatus. |
| Unusual fire or explosion hazards: | 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.

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|-----------------------------------|---|
| 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: | Scrape up spilled material and place in a closed container for disposal. Dispose of according to Federal, State and local governmental regulations. |

7. HANDLING AND STORAGE

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|------------------|---|
| Handling: | For the Part A plus Part B adhesive mixture, follow curing schedule as recommended in product literature. Do not heat Part A at temperatures greater than 100 °C (212 °F). This material may self-react at higher temperatures and cause an exotherm. The exotherm has the potential for release of excessive energy and toxic gasses. Empty containers retain product residue, so obey hazard warnings and handle empty containers as if they were full. |
| Storage: | For safe storage, store between 0 °C (32°F) and 5 °C (41°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 |
|---|---|--|-----------|-------|
| Bisphenol-F Epichlorhydrin resin | None | None | None | None |
| Glass, oxide, chemicals | 5 mg/m3 TWA Inhalable fraction. 10 mg/m3 TWA Inhalable dust. 3 mg/m3 TWA Respirable fraction. | 15 mg/m3 TWA Total dust. 5 mg/m3 TWA Respirable fraction. | None | None |
| Epichlorohydrin-4,4'-isopropylidene diphenol resin | None | None | None | None |
| antimony trioxide | 0.5 mg/m3 TWA (as Sb) Included in the regulation but with no data values. See regulation for further details Exposure by all routes should be carefully controlled to levels as low as possible. | 0.5 mg/m3 PEL (as Sb) | None | None |
| 2,3-epoxypropyl o-tolyl ether | None | None | None | None |
| Triphenyl phosphite | None | None | None | None |
| Dimethyl phosphonate | None | None | None | None |

Engineering controls:

Ventilation should effectively remove and prevent buildup of any dust generated from the handling of this product.

Respiratory protection:

When dusts or thermal processing fumes are generated and ventilation is not sufficient to effectively remove them, appropriate NIOSH/MSHA approved respiratory protection must be provided.

Eye/face protection:

Wear safety glasses; chemical goggles (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

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|---|---|
| Physical state: | Solid |
| Color: | White |
| Odor: | Slight |
| Odor threshold: | Not available. |
| pH: | Neutral |
| Vapor pressure: | < 0.01 mm hg (20 °C (68°F)) |
| Boiling point/range: | Not determined |
| Melting point/ range: | Not determined |
| Specific gravity: | 0.52 |
| Vapor density: | Nil |
| Flash point: | > 200 °F (> 93.33 °C) |
| Flammable/Explosive limits - lower: | Not determined |
| Flammable/Explosive limits - upper: | Not determined |
| Autoignition temperature: | Not determined |
| Flammability: | Not applicable |
| Evaporation rate: | Not determined |
| Solubility in water: | Negligible |
| Partition coefficient (n-octanol/water): | Not determined |
| VOC content: | < 10 g/l per SCAQMD Rule 1124 [EPA Test Method 24/304-91] (estimated) |
| Viscosity: | Not available. |
| Decomposition temperature: | Not available. |

10. STABILITY AND REACTIVITY

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| Stability: | Stable at normal conditions. |
| Hazardous reactions: | May occur. |
| Hazardous decomposition products: | Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons. Oxides of nitrogen. |
| Incompatible materials: | Keep away from strong oxidizing agents, strong Lewis or mineral acids. |
| Reactivity: | Not available. |
| Conditions to avoid: | Avoid mixing resin (Part A) and curing agent (Part B) unless you plan to use immediately. Do not heat mixed adhesive unless curing surfaces to be bonded. Failure to observe these precautions may result in excessive heat build-up causing an exotherm. |

11. TOXICOLOGICAL INFORMATION

Relevant routes of exposure: Skin, Inhalation, Eyes

Potential Health Effects/Symptoms

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|----------------------|--|
| Inhalation: | This product is irritating to the respiratory system. May cause allergic respiratory reaction. |
| Skin contact: | This product is irritating to the skin. Repeated or prolonged skin contact may result in allergic sensitization. |
| Eye contact: | This product is irritating to the eyes. |
| Ingestion: | Ingestion can cause gastrointestinal irritation, nausea, vomiting and diarrhea. |

| Hazardous Component(s) | LD50s and LC50s | Immediate and Delayed Health Effects |
|--|---|---|
| Bisphenol-F Epichlorhydrin resin | None | Allergen, Irritant |
| Glass, oxide, chemicals | None | Allergen, Respiratory |
| Epichlorohydrin-4,4'-isopropylidene diphenol resin | None | Allergen, Irritant |
| antimony trioxide | Oral LD50 (Rat) = > 34,600 mg/kg Oral LD50 (Rat) = > 20 g/kg Inhalation LC50 (Rat, 4 h) = > 5.2 mg/l | Cardiac, Developmental, Eyes, Gastrointestinal, Irritant, Kidney, Liver, Lung, Mutagen, Nervous System, Reproductive, Sensory, Some evidence of carcinogenicity |
| 2,3-epoxypropyl o-tolyl ether | Inhalation LC50 (Rat, 4 h) = > 6 ppm Inhalation LC50 (Rat, 4 h) = 6,090 mg/m3 | Allergen, Blood, Bone Marrow, Immune system, Irritant, Reproductive |
| Triphenyl phosphite | Oral LD50 (Mouse) = 1,330 mg/kg Oral LD50 (Rat) = 1,600 mg/kg | Irritant, Allergen, Nervous System |
| Dimethyl phosphonate | Oral LD50 (Mouse) = 2,815 mg/kg Oral LD50 (Rat) = 3,040 mg/kg Oral LD50 (Rat) = 3,283 mg/kg Dermal LD50 (Rabbit) = 2,400 mg/kg | Irritant, Nervous System, Reproductive, Liver, Eyes, Carcinogen, Mutagen |

| Hazardous Component(s) | NTP Carcinogen | IARC Carcinogen | OSHA Carcinogen (Specifically Regulated) |
|--|----------------|-----------------|--|
| Bisphenol-F Epichlorhydrin resin | No | No | No |
| Glass, oxide, chemicals | No | No | No |
| Epichlorohydrin-4,4'-isopropylidene diphenol resin | No | No | No |
| antimony trioxide | No | Group 2B | No |
| 2,3-epoxypropyl o-tolyl ether | No | No | No |
| Triphenyl phosphite | No | No | No |
| Dimethyl phosphonate | 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 package/configuration.

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

Proper shipping name: RQ, Environmentally hazardous substance, solid, n.o.s.
Hazard class or division: 9
Identification number: UN 3077
Packing group: III
DOT Hazardous Substance(s): Antimony trioxide

International Air Transportation (ICAO/IATA)

Proper shipping name: RQ, Environmentally hazardous substance, solid, n.o.s. (Bisphenol-F Epichlorhydrin resin, Bisphenol-A Epichlorhydrin resin)
Hazard class or division: 9
Identification number: UN 3077
Packing group: III

Water Transportation (IMO/IMDG)

Proper shipping name: RQ, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Bisphenol-F Epichlorhydrin resin, Bisphenol-A Epichlorhydrin resin)
Hazard class or division: 9
Identification number: UN 3077
Packing group: III
Marine pollutant: Bisphenol-F Epichlorhydrin resin, Bisphenol-A Epichlorhydrin resin
Exceptions: Classified per IMDG Amendment 34; Effective Jan 1, 2010.

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: Immediate Health, Delayed Health
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). antimony trioxide (CAS# 1309-64-4).
CERCLA Reportable quantity: antimony trioxide (CAS# 1309-64-4) 1,000 lbs. (454 kg)

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: Contains one or more components listed on the Non-Domestic Substances List. All other components are listed on or are exempt from listing on the Domestic Substances List. Components listed on the NDSL must be tracked by all Canadian Importers of Record as required by Environment Canada. They may be imported into Canada in limited quantities. Please contact Regulatory Affairs for additional details.

16. OTHER INFORMATION

This safety data sheet contains changes from the previous version in sections: 1,2,3,15

Prepared by: Product Safety and Regulatory Affairs

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