



Revision Number: 003.0

Issue date: 02/01/2017

1. PRODUCT AND COMPANY IDENTIFICATION

| | | | |
|-------------------------------|---|---------------------|---------------|
| Product name: | LOCTITE PC 7254 AL PTY known as Fixmaster Aluminum Putty | IDH number: | 702241 |
| Product type: | Epoxy Hardener | Item number: | 97463_318000 |
| Restriction of Use: | None identified | Region: | United States |
| Company address: | Contact information: | | |
| Henkel Corporation | Telephone: (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

DANGER: HARMFUL IF SWALLOWED OR IN CONTACT WITH SKIN.
CAUSES SEVERE SKIN BURNS AND EYE DAMAGE.
MAY CAUSE AN ALLERGIC SKIN REACTION.
MAY CAUSE ALLERGY OR ASTHMA SYMPTOMS OR BREATHING
DIFFICULTIES IF INHALED.

| HAZARD CLASS | HAZARD CATEGORY |
|---------------------------|-----------------|
| ACUTE TOXICITY ORAL | 4 |
| ACUTE TOXICITY DERMAL | 4 |
| SKIN CORROSION | 1B |
| SERIOUS EYE DAMAGE | 1 |
| RESPIRATORY SENSITIZATION | 1 |
| SKIN SENSITIZATION | 1 |

PICTOGRAM(S)



Precautionary Statements

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| Prevention: | Avoid breathing vapors, mist, or spray. Wash affected area thoroughly after handling. Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves, clothing, eye and face protection. In case of inadequate ventilation wear respiratory protection. |
| Response: | IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or physician. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If skin irritation or rash occurs: Get medical attention. If experiencing respiratory symptoms: Call a poison center or physician. Wash contaminated clothing before reuse. |
| 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* |
|---|------------|-------------|
| C18 Fatty acid dimer, tall oil fatty acid, triethylenetetramine polymer | 68082-29-1 | 30 - 40 |
| Triethylenetetramine | 112-24-3 | 20 - 30 |
| Aluminum | 7429-90-5 | 5 - 10 |
| Silicon dioxide | 7631-86-9 | 5 - 10 |
| N-Aminoethylpiperazine | 140-31-8 | 5 - 10 |
| 4,4'-Isopropylidenediphenol | 80-05-7 | 5 - 10 |
| Glycerylpoly(oxypropylene)triamine | 64852-22-8 | 1 - 5 |
| Nonylphenol | 25154-52-3 | 1 - 5 |
| Benzyl alcohol | 100-51-6 | 0.1 - 1 |
| Benzyl dimethylamine | 103-83-3 | 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: | Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention. |
| Skin contact: | Immediately flush skin with plenty of water (using soap, if available). Remove contaminated clothing and footwear. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse. |
| Eye contact: | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention. |
| Ingestion: | DO NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention. |
| Symptoms: | See Section 11. |

5. FIRE FIGHTING MEASURES

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| Extinguishing media: | Water spray (fog), foam, dry chemical or carbon dioxide. |
| Special firefighting procedures: | Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear. In case of fire, keep containers cool with water spray. |
| Unusual fire or explosion hazards: | Closed containers may rupture (due to build up of pressure) when exposed to extreme heat. |

Hazardous combustion products:

Oxides of carbon. Oxides of nitrogen. Irritating organic fragments. Nitric acid.
Ammonia. Aldehydes. Ketones. Phenolics.

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:

Do not allow product to enter sewer or waterways.

Clean-up methods:

Ensure adequate ventilation. Wear appropriate personal protective equipment. Refer to Section 8 "Exposure Controls / Personal Protection" prior to clean up. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Scrape up spilled material and place in a closed container for disposal.

7. HANDLING AND STORAGE

Handling:

Use only with adequate ventilation. Prevent contact with eyes, skin and clothing. Do not breathe vapor and mist. Wash thoroughly after handling. Keep container closed.

Storage:

Keep container tightly closed and in a cool, well-ventilated place away from incompatible materials. Store away from heat, sparks, flames, or other sources of ignition.

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 |
|---|---|---|---|---|
| C18 Fatty acid dimer, tall oil fatty acid, triethylenetetramine polymer | None | None | None | None |
| Triethylenetetramine | None | None | 1 ppm (6 mg/m ³) TWA (SKIN) | None |
| Aluminum | 1 mg/m ³ TWA Respirable fraction. | 15 mg/m ³ PEL (as Al) Total dust. 5 mg/m ³ PEL (as Al) Respirable fraction. 15 MPPCF TWA Respirable fraction. 50 MPPCF TWA Total dust. 5 mg/m ³ TWA Respirable fraction. 15 mg/m ³ TWA Total dust. | None | None |
| Silicon dioxide | 6 mg/m ³ TWA | 20 MPPCF TWA 0.8 mg/m ³ TWA | None | 3 mg/m ³ TWA Respirable fraction. |
| N-Aminoethylpiperazine | None | None | None | None |
| 4,4'-Isopropylidenediphenol | None | None | None | None |
| Glycerylpoly(oxypropylene)triamine | None | None | None | None |
| Nonylphenol | None | None | None | None |
| Benzyl alcohol | None | None | 10 ppm (44.20 mg/m ³) TWA | None |
| Benzyl dimethylamine | None | None | None | None |

Engineering controls:

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

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| Respiratory protection: | Use a NIOSH approved air-purifying respirator if the potential to exceed established exposure limits exists. |
| Eye/face protection: | Safety goggles or safety glasses with side shields. Full face protection should be used if the potential for splashing or spraying of product exists. |
| Skin protection: | Use chemical resistant, impermeable clothing including gloves and either an apron or body suit to prevent skin contact. |

9. PHYSICAL AND CHEMICAL PROPERTIES

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|---|---|
| Physical state: | Paste |
| Color: | Silver |
| Odor: | Slight, Ammoniacal |
| Odor threshold: | Not available. |
| pH: | Not applicable |
| Vapor pressure: | Not available. |
| Boiling point/range: | Not available. |
| Melting point/ range: | Not available. |
| Specific gravity: | 1.5 |
| Vapor density: | Not available. |
| Flash point: | > 93.4 °C (> 200.12 °F) ; Estimated |
| Flammable/Explosive limits - lower: | Not available. |
| Flammable/Explosive limits - upper: | Not available. |
| Autoignition temperature: | Not available. |
| Flammability: | Not applicable |
| Evaporation rate: | Not available. |
| Solubility in water: | Partially soluble |
| Partition coefficient (n-octanol/water): | Not available. |
| VOC content: | < 1.0 %; < 10 g/l (value for resin and hardener together) (estimated) |
| Viscosity: | Not available. |
| Decomposition temperature: | Not available. |

10. STABILITY AND REACTIVITY

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| Stability: | Stable under normal conditions of storage and use. |
| Hazardous reactions: | Polymerization is a highly exothermic reaction and may generate sufficient heat to cause thermal decomposition and/or rupture containers. |
| Hazardous decomposition products: | Oxides of carbon. Oxides of nitrogen. Nitric acid. Ammonia. Aldehydes. Ketones. Phenolics. Toxic fumes. Irritating vapors. |
| Incompatible materials: | Strong acids and strong bases. Strong oxidizing agents. Amines. Strong mineral acids. Calcium hypochlorite. Sodium hypochlorite. Copper. Aluminum. Zinc. Nitrous acid and other nitrosating agents. |
| Reactivity: | Not available. |
| Conditions to avoid: | Keep away from heat, ignition sources and incompatible materials. |

11. TOXICOLOGICAL INFORMATION

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| Relevant routes of exposure: | Skin, Inhalation, Eyes, Ingestion |
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Potential Health Effects/Symptoms

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| Inhalation: | May cause allergic respiratory reaction. These symptoms, which can include chest tightness, wheezing, cough, shortness of breath or asthma attack, could be immediate or delayed (up to several hours after exposure). May cause irritation to nose and throat. Shortness of breath. Coughing. |
| Skin contact: | Harmful in contact with skin. Corrosive to skin. Causes skin burns. May cause allergic skin reaction. Rash. Redness. Pain and discomfort. |
| Eye contact: | Causes serious eye damage. Causes eye burns. Blurred vision. Excess tearing. Pain and discomfort. Tissue damage. Corneal edema may give appearance of "blue haze" or "fog" around lights. Redness. |
| Ingestion: | Harmful if swallowed. May cause burns of mouth and throat if swallowed. May cause an aspiration hazard if swallowed. Aspirated material can enter the lungs and result in pneumonitis. |

| Hazardous Component(s) | LD50s and LC50s | Immediate and Delayed Health Effects |
|---|---|---|
| C18 Fatty acid dimer, tall oil fatty acid, triethylenetetramine polymer | None | No Records |
| Triethylenetetramine | None | Allergen, Corrosive, Developmental, Irritant, Mutagen |
| Aluminum | None | Central nervous system, Irritant, Lung |
| Silicon dioxide | Oral LD50 (Rat) = > 22,500 mg/kg Oral LD50 (Mouse) = > 15,000 mg/kg | Nuisance dust |
| N-Aminoethylpiperazine | None | Irritant, Corrosive, Allergen |
| 4,4'-Isopropylidenediphenol | Oral LD50 (Rat) = 4,100 mg/kg Oral LD50 (Rat) = 3,300 mg/kg Oral LD50 (Mouse) = 5,280 mg/kg Oral LD50 (Mouse) = 2,500 mg/kg Oral LD50 (Mouse) = 4,100 mg/kg | Allergen, Blood, Irritant, Kidney, Reproductive, Spleen |
| Glycerylpoly(oxypropylene)triamine | None | No Records |
| Nonylphenol | Oral LD50 (Rat) = 1,600 mg/kg Dermal LD50 (Rabbit) = 2,140 mg/kg | Allergen, Corrosive, Irritant, Kidney |
| Benzyl alcohol | Oral LD50 (Rabbit) = 1,940 mg/kg Oral LD50 (Rat) = 1,230 - 3,100 mg/kg Oral LD50 (Mouse) = 1,580 mg/kg Oral LD50 (Rat) = 3,100 mg/kg Dermal LD50 (Rabbit) = 2,000 mg/kg | Allergen, Central nervous system, Corrosive, Irritant |
| Benzyl dimethylamine | None | Irritant, Corrosive, Allergen, Respiratory |

| Hazardous Component(s) | NTP Carcinogen | IARC Carcinogen | OSHA Carcinogen (Specifically Regulated) |
|---|----------------|-----------------|--|
| C18 Fatty acid dimer, tall oil fatty acid, triethylenetetramine polymer | No | No | No |
| Triethylenetetramine | No | No | No |
| Aluminum | No | No | No |
| Silicon dioxide | No | No | No |
| N-Aminoethylpiperazine | No | No | No |
| 4,4'-Isopropylidenediphenol | No | No | No |
| Glycerylpoly(oxypropylene)triamine | No | No | No |
| Nonylphenol | No | No | No |
| Benzyl alcohol | No | No | No |
| Benzyl dimethylamine | No | No | No |

12. ECOLOGICAL INFORMATION

Ecological information: Not available.

13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

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| Recommended method of disposal: | Follow all local, state, federal and provincial regulations for disposal. |
| Hazardous waste number: | It is the responsibility of the user to determine if an item is hazardous as defined in the Resource Conservation and Recovery Act (RCRA) at the time of disposal. Product uses, transformations, mixtures, processes, etc., may render the resulting material hazardous, under the criteria of Ignitability, corrosivity, reactivity and toxicity characteristics of the Toxicity Characteristics Leaching Procedure (TCLP) 40 CFR 261.20-24. |

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)

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| Proper shipping name: | Amines, liquid, corrosive, n.o.s. (Aminoethylpiperazine, Triethylenetetramine) |
| Hazard class or division: | 8 |
| Identification number: | UN 2735 |
| Packing group: | II |

International Air Transportation (ICAO/IATA)

| | |
|----------------------------------|--|
| Proper shipping name: | Amines, liquid, corrosive, n.o.s. (Aminoethylpiperazine, Triethylenetetramine) |
| Hazard class or division: | 8 |
| Identification number: | UN 2735 |
| Packing group: | II |

Water Transportation (IMO/IMDG)

| | |
|----------------------------------|--|
| Proper shipping name: | AMINES, LIQUID, CORROSIVE, N.O.S. (Aminoethylpiperazine, Triethylenetetramine) |
| Hazard class or division: | 8 |
| Identification number: | UN 2735 |
| Packing group: | II |

15. REGULATORY INFORMATION

United States Regulatory Information

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| 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: | Alkyl phenol (CAS# 25154-52-3). |
| 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). Aluminum (CAS# 7429-90-5). 4,4'-Isopropylidenediphenol (CAS# 80-05-7). Nonylphenol (CAS# 25154-52-3). |
| California Proposition 65: | This product contains a chemical known to the State of California to cause birth defects or other reproductive harm. |

Canada Regulatory Information

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|-----------------------------|---|
| CEPA DSL/NDL 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. |
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16. OTHER INFORMATION

This safety data sheet contains changes from the previous version in sections: 15

Prepared by: Rebecca Coons, Regulatory Affairs Specialist

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