



Revision Number: 003.3

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## 1. PRODUCT AND COMPANY IDENTIFICATION

|   |   |                             |               |
|---|---|-----------------------------|---------------|
| <b>Product name:</b>  | <b>BONDERITE L-FG 1105 FORGING LUBRICANT</b>  | <b>IDH number:</b>          | 2303332       |
| <b>Product type:</b>  | Lubricant   | <b>Region:</b>              | United States |
| <b>Restriction of Use:</b>  | None identified   | <b>Contact information:</b> |               |
| <b>Company address:</b>   | Telephone: +1 (860) 571-5100<br>MEDICAL EMERGENCY Phone: Poison Control Center<br>1-877-671-4608 (toll free) or 1-303-592-1711<br>TRANSPORT EMERGENCY Phone: CHEMTREC<br>1-800-424-9300 (toll free) or 1-703-527-3887<br>Internet: www.henkelna.com |                             |               |
| Henkel Corporation<br>One Henkel Way<br>Rocky Hill, Connecticut 06067 |   |                             |               |

## 2. HAZARDS IDENTIFICATION

### EMERGENCY OVERVIEW

**DANGER:** CAUSES SKIN IRRITATION.  
 MAY CAUSE AN ALLERGIC SKIN REACTION.  
 CAUSES SERIOUS EYE IRRITATION.  
 CAUSES DAMAGE TO ORGANS THROUGH PROLONGED OR REPEATED EXPOSURE.

| HAZARD CLASS                                       | HAZARD CATEGORY |
|--|-----------------|
| SKIN IRRITATION                                    | 2               |
| EYE IRRITATION                                     | 2A              |
| SKIN SENSITIZATION                                 | 1               |
| SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE | 1               |

### PICTOGRAM(S)



### Precautionary Statements

|                    |  |
|--------------------|--|
| <b>Prevention:</b> | Do not breathe 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, eye protection, and face protection.   |
| <b>Response:</b>   | 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. Get medical attention if you feel unwell. If skin irritation or rash occurs: Get medical attention. If eye irritation persists: Get medical attention. Take off contaminated clothing. |
| <b>Storage:</b>    | Not prescribed   |
| <b>Disposal:</b>   | Dispose of contents and/or container according to Federal, State/Provincial and local governmental regulations.  |

13 % of the mixture consists of ingredient(s) of unknown acute toxicity.

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* |
|--|------------|-------------|
| disodium adipate                       | 7486-38-6  | 1 - 5       |
| Sodium hydroxide                       | 1310-73-2  | 1 - 5       |
| Tris(2-hydroxyethyl)hexahydro triazine | 4719-04-4  | 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

|                            |  |
|----------------------------|--|
| <b>Inhalation:</b>         | If inhaled, immediately remove the affected person to fresh air. Get immediate medical attention.                              |
| <b>Skin contact:</b>       | Immediately wash skin thoroughly with soap and water. Get immediate 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>Symptoms:</b>           | See Section 11.  |
| <b>Notes to physician:</b> | Treat symptomatically and supportively.  |

### 5. FIRE FIGHTING MEASURES

|   |  |
|---|--|
| <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> | 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

Use personal protection recommended in Section 8, isolate the hazard area and deny entry to unnecessary and unprotected personnel.

|                                   |   |
|-----------------------------------|---|
| <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

**Handling:** Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Avoid breathing vapors or mists of this product. Use only with adequate ventilation. Do not take internally. For industrial use only.

**Storage:** For safe storage, store between -20 °C (-4°F) and 50 °C (122°F)

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 |
|--|-----------------|-------------|-----------|-------|
| disodium adipate                       | None            | None        | None      | None  |
| Sodium hydroxide                       | 2 mg/m3 Ceiling | 2 mg/m3 PEL | None      | None  |
| Tris(2-hydroxyethyl)hexahydro triazine | None            | None        | None      | None  |

**Engineering controls:** Provide local and general exhaust ventilation to effectively remove and prevent buildup of any vapors or mists generated from the handling of this product.

**Respiratory protection:** If ventilation is not sufficient to effectively prevent buildup of aerosols, mists or vapors, 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. Gloves should be tested to determine suitability for prolonged contact. Use of impervious apron and boots are recommended.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

|   |                          |
|---|--------------------------|
| <b>Physical state:</b>                          | Liquid                   |
| <b>Color:</b>                                   | Clear                    |
| <b>Odor:</b>                                    | Mild                     |
| <b>Odor threshold:</b>                          | Not available.           |
| <b>pH:</b>                                      | 8.5 - 9.5                |
| <b>Vapor pressure:</b>                          | Not determined           |
| <b>Boiling point/range:</b>                     | 100 °C (212°F)calculated |
| <b>Melting point/ range:</b>                    | Not available.           |
| <b>Specific gravity:</b>                        | 1.09 - 1.11              |
| <b>Vapor density:</b>                           | < 1 (Air = 1)            |
| <b>Flash point:</b>                             | Not applicable           |
| <b>Flammable/Explosive limits - lower:</b>      | Not available.           |
| <b>Flammable/Explosive limits - upper:</b>      | Not available.           |
| <b>Autoignition temperature:</b>                | Not applicable           |
| <b>Flammability:</b>                            | Not applicable           |
| <b>Evaporation rate:</b>                        | Not determined           |
| <b>Solubility in water:</b>                     | Complete                 |
| <b>Partition coefficient (n-octanol/water):</b> | Not determined           |
| <b>VOC content:</b>                             | None                     |
| <b>Viscosity:</b>                               | 800 - 1,200 mPa.s        |
| <b>Decomposition temperature:</b>               | Not available.           |

## 10. STABILITY AND REACTIVITY

|  |  |
|--|--|
| <b>Stability:</b>                        | Stable at normal conditions.   |
| <b>Hazardous reactions:</b>              | None under normal processing.  |
| <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>           | This product may react with strong acids or oxidizing agents.  |
| <b>Reactivity:</b>                       | Not available.   |
| <b>Conditions to avoid:</b>              | Keep away from heat, ignition sources and incompatible materials.  |

## 11. TOXICOLOGICAL INFORMATION

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

### Potential Health Effects/Symptoms

|                      |   |
|----------------------|---|
| <b>Inhalation:</b>   | This product may cause slight irritation to the respiratory system.   |
| <b>Skin contact:</b> | Causes skin irritation. May cause allergic skin reaction. Prolonged and/or repeated skin contact with this product may cause irritation/dermatitis. |
| <b>Eye contact:</b>  | Causes eye irritation.  |
| <b>Ingestion:</b>    | Ingestion can cause gastrointestinal irritation, nausea, vomiting and diarrhea.   |

| Hazardous Component(s)                 | LD50s and LC50s | Immediate and Delayed Health Effects                                   |
|--|-----------------|--|
| disodium adipate                       | None            | Irritant, Respiratory, Nervous System, Gastrointestinal, Liver, Kidney |
| Sodium hydroxide                       | None            | Irritant, Corrosive, Eyes  |
| Tris(2-hydroxyethyl)hexahydro triazine | None            | Irritant, Allergen   |

| Hazardous Component(s)                 | NTP Carcinogen | IARC Carcinogen | OSHA Carcinogen (Specifically Regulated) |
|--|----------------|-----------------|--|
| disodium adipate                       | No             | No              | No                                       |
| Sodium hydroxide                       | No             | No              | No                                       |
| Tris(2-hydroxyethyl)hexahydro triazine | No             | No              | No                                       |

## 12. ECOLOGICAL INFORMATION

**Ecological information:** None identified.

### 13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

**Recommended method of disposal:** Follow all local, state, federal and provincial regulations for disposal. Wastes must be tested using methods described in 40 CFR Part 261 to determine if it meets applicable definitions of hazardous wastes.

**Hazardous waste number:** Material, if discarded, is not expected to be a characteristic hazardous waste under RCRA.

### 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:** Not regulated  
**Hazard class or division:** None  
**Identification number:** None  
**Packing group:** None

#### International Air Transportation (ICAO/IATA)

**Proper shipping name:** Not regulated  
**Hazard class or division:** None  
**Identification number:** None  
**Packing group:** None

#### Water Transportation (IMO/IMDG)

**Proper shipping name:** Not regulated  
**Hazard class or division:** None  
**Identification number:** None  
**Packing group:** None

### 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 minimis

**CERCLA/SARA Section 302 EHS:** None above reporting de minimis.  
**CERCLA/SARA Section 311/312:** Immediate Health, Delayed Health  
**CERCLA/SARA Section 313:** None above reporting de minimis.

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

#### Canada Regulatory Information

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

### 16. OTHER INFORMATION

This safety data sheet contains changes from the previous version in sections: New Safety Data Sheet format.

**Prepared by:** Regulatory Affairs

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