Safety Data Sheet



Revision Number: 003.1

1. PRODUCT AND COMPANY IDENTIFICATION

IDH number:

Product name:

Product type: **Restriction of Use:** Company address: Henkel Corporation One Henkel Way Rocky Hill, Connecticut 06067

BONDERITE L-FG F 90 FORGING LUBRICANT ACHESON known as **DELTAFOR GE F-90** Lubricant None identified

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

1362766

Internet: www.henkelna.com

2. HAZARDS IDENTIFICATION

	EMERGENCY OVERVIEW
WARNING:	CAUSES SKIN IRRITATION.
	MAY CAUSE AN ALLERGIC SKIN REACTION.
	CAUSES SERIOUS EYE IRRITATION.

HAZARD CLASS	HAZARD CATEGORY
SKIN IRRITATION	2
EYE IRRITATION	2A
SKIN SENSITIZATION	1

PICTOGRAM(S)	

Precautionary Statements

Prevention:	Avoid breathing vapors, mist, or spray. Wash affected area thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves, eve protection, 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 skin irritation or rash occurs: Get medical attention. If eye irritation persists: Get medical attention. Take off contaminated clothing.
Storage: Disposal:	Not prescribed 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

IDH number: 1362766

Product name: BONDERITE L-FG F 90 FORGING LUBRICANT ACHESON known as DELTAFOR GE F-90

Hazardous Component(s)	CAS Number	Percentage*
Carboxylic acid salt	Proprietary	30 - 60
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 Inhalation: If mist or vapor of this product is inhaled, remove person immediately to fresh air. Seek medical attention if symptoms develop or persist. Skin contact: 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 unless directed to do so by medical personnel. Symptoms: See Section 11. Notes to physician: Treat symptomatically and supportively. 5. FIRE FIGHTING MEASURES 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

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.	
Clean-up methods:	Absorb spill with inert material. Shovel material into appropriate container for disposal.	

7. HANDLING AND STORAGE

Handling:	Avoid contact with eyes, skin and clothing. Do not inhale vapors and fumes. Use only with adequate ventilation. Wash thoroughly after handling. Do not take internally.
Storage:	For safe storage, store between 5.0 °C (41°F) and 50 °C (122°F) Keep container tightly closed and in a cool, well-ventilated place away from incompatible materials. Protect from freezing. Protect from direct sunlight.

For information on product shelf life, please review labels on container or check the Technical Data Sheet.

IDH number: 1362766

Product name: BONDERITE L-FG F 90 FORGING LUBRICANT ACHESON known as DELTAFOR GE F-90

and/or low molecular weight hydrocarbons. Oxides of nitrogen.

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
Carboxylic acid salt	None	None	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:	determ	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

Color: Odor: Odor threshold:
• • • • • • • • • • • • • • • • • • • •
Odor threshold:
pH:
Vapor pressure:
Boiling point/range:
Melting point/ range:
Specific gravity:
Vapor density:
Flash point:
Flammable/Explosive limits - lower:
Flammable/Explosive limits - upper:
Autoignition temperature:
Flammability:
Evaporation rate:
Solubility in water:
Partition coefficient (n-octanol/water):
VOC content:
Viscosity:
Decomposition temperature:

Liquid Opaque white None Not available. 9.0 - 10.5 Not determined >= 100 °C (>= 212°F)None <= 0 °C (<= 32°F) 1.212 Not available. Not applicable Not available. Not available. Not applicable Not applicable Not applicable Complete Not available. Not applicable 200 - 600 cp Not available.

10. STABILITY AND REACTIVITY

Stability:	Stable at normal conditions.
Hazardous reactions:	None under normal processing.
Hazardous decomposition products:	Thermal decomposition can lead to release of irritating gases and vapors.
Incompatible materials:	Acids.
Reactivity:	Not available.
Conditions to avoid:	Store away from incompatible materials. Protect from direct sunlight. Excessive heat. Freezing conditions.

Product name: BONDERITE L-FG F 90 FORGING LUBRICANT ACHESON known as DELTAFOR GE F-90

11. TOXICOLOGICAL INFORMATION

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

Potential Health Effects/Symptoms

Inhalation:	May cause respiratory tract irritation.
Skin contact:	This product may cause irritation to the skin. A component in this product may be absorbed
	through the skin, especially if skin is damaged. May cause allergic skin reaction.
Eye contact:	This product may be severely 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
Carboxylic acid salt	None	Blood, Irritant, Kidney, Liver, Nervous System, Respiratory
Tris(2-hydroxyethyl)hexahydro triazine	None	Irritant, Allergen

Hazardous Component(s)	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Carboxylic acid salt	No	No	No
Tris(2-hydroxyethyl)hexahydro triazine	No	No	No

12. ECOLOGICAL INFORMATION

Ecological information:

Do not empty into drains / surface water / ground water.

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:	Wastes must be tested using methods described in 40 CFR Part 261 to determine if it meets applicable definitions of hazardous wastes.

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

CEPA DSL/NDSL Status:	All components are listed on or are exempt from listing on the Canadian Domestic Substances List.
Canada Regulatory Information	
California Proposition 65:	No California Proposition 65 listed chemicals are known to be present.
CERCLA/SARA Section 302 EHS: CERCLA/SARA Section 311/312: CERCLA/SARA Section 313:	None above reporting de minimis. Immediate Health, Delayed Health None above reporting de minimis.
TSCA 12 (b) Export Notification:	None above reporting de minimis
TSCA 8 (b) Inventory Status:	All components are listed or are exempt from listing on the Toxic Substances Control Act Inventory.

16. OTHER INFORMATION

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

Prepared by: Regulatory Affairs

Issue date: 12/05/2018

DISCLAIMER: The data contained herein are furnished for information only and are believed to be reliable. However, Henkel Corporation and its affiliates ("Henkel") does not assume responsibility for any results obtained by persons over whose methods Henkel has no control. It is the user's responsibility to determine the suitability of Henkel's products or any production methods mentioned herein for a particular purpose, and to adopt such precautions as may be advisable for the protection of property and persons against any hazards that may be involved in the handling and use of any Henkel's products. In light of the foregoing, Henkel specifically disclaims all warranties, express or implied, including warranties of merchantability and fitness for a particular purpose, arising from sale or use of Henkel's products. Henkel further disclaims any liability for consequential or incidental damages of any kind, including lost profits.

This Safety Data Sheet has been generated based on OSHA Hazard Communication Standard (29 CFR 1910.1200) and provides information in accordance with U.S. federal law only. No warranty or representation of any kind is given with respect to the substantive or export laws of any other jurisdiction or country. Please confirm that the information provided herein conforms to the substantive export or other law of any other jurisdiction prior to export. Please contact Henkel Product Safety and Regulatory Affairs for additional assistance.