Safety Data Sheet



Revision Number: 005.0 Issue date: 11/05/2020

1. PRODUCT AND COMPANY IDENTIFICATION

IDH number:

Product name: BONDERITE L-FM F 747 ACHESON

Product type/use: Lubricant Restriction of Use: None identified

Company address: Henkel Corporation

One Henkel Way Rocky Hill, Connecticut 06067

Lubricant

Region: United States

Contact information: Telephone: +1 (860) 571-5100

MEDICAL EMERGENCY Phone: Poison Control Center

1876530

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.

CAUSES SERIOUS EYE IRRITATION.

SUSPECTED OF DAMAGING FERTILITY OR THE UNBORN CHILD.

HAZARD CLASS	HAZARD CATEGORY
SKIN IRRITATION	2
EYE IRRITATION	2A
REPRODUCTIVE TOXICITY	2

PICTOGRAM(S)



Precautionary Statements

Prevention: Obtain special instructions before use. Do not handle until all safety precautions have been

read and understood. Wash affected area thoroughly after handling. 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 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*
Surfactant	Proprietary	30 - 60
Organic ester	Proprietary	10 - 30
Potassium isostearate	Proprietary	10 - 30
Dipotassium tetraborate	1332-77-0	1 - 5
Benzotriazole	95-14-7	1 - 5

* 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 flush skin with plenty of water (using soap, if available). 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 medical attention. DO NOT induce vomiting unless directed to do so by

medical personnel.

Symptoms: See Section 11.

5. FIRE FIGHTING MEASURES

Extinguishing media: Use media appropriate for surrounding material.

Special firefighting procedures: Wear full protective clothing. Wear self-contained breathing apparatus.

Unusual fire or explosion hazards: This product is an aqueous mixture which will not burn.

Hazardous combustion products: Irritating and toxic gases or fumes may be released during a fire.

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. 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. For industrial use only. Do not mix this product with fluids which contain NITRITES/NITRATES. NITROSAMINE may be formed.

Storage: For safe storage, store between 40 °F (4.4 °C) and 100 °F (37.8 °C)

Keep container tightly closed and in a cool, well-ventilated place away from

incompatible materials. Thaw and mix thoroughly if frozen.

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
Surfactant	None	None	None	None
Organic ester	None	None	None	None
Potassium isostearate	None	None	None	None
Dipotassium tetraborate	2 mg/m3 TWA Inhalable fraction. 6 mg/m3 STEL Inhalable fraction.	None	None	None
Benzotriazole	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.

Eyelface protection: Wear chemical goggles; face shield (if splashing is possible).

Skin protection: Chemical resistant, impermeable gloves. Gloves should be tested to

determine suitability for prolonged contact. Use of impervious apron and boots

are recommended.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:LiquidColor:AmberOdor:Mild amineOdor threshold:Not available.

pH: 8.9

Vapor pressure: Not determined

Boiling point/range: > 100 °C (> 212°F)calculated

Melting point/ range: Not determined Specific gravity: 1.00 - 1.02 Vapor density: Not applicable Flash point: Not applicable Flammable/Explosive limits - lower: Not applicable Flammable/Explosive limits - upper: Not applicable Autoignition temperature: Not applicable Flammability: Not applicable Not determined Evaporation rate: Solubility in water: Complete Partition coefficient (n-octanol/water): Not determined **VOC** content: < 1 % Viscosity: 400 mPa.s **Decomposition temperature:** Not available.

10. STABILITY AND REACTIVITY

Stability: Stable at normal conditions.

Hazardous reactions: Will not occur.

Hazardous decomposition

products:

Upon decomposition, this product may yield gaseous nitrogen oxides, carbon monoxide,

carbon dioxide and/or low molecular weight hydrocarbons.

Incompatible materials: This product may react with strong oxidizing agents. This product may react with strong

reducing agents. Nitrites may react with organic amines to form nitrosamines which can cause

cancer.

Reactivity: Not available.

Conditions to avoid: Excessive heat and contamination.

11. TOXICOLOGICAL INFORMATION

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

Potential Health Effects/Symptoms

Inhalation: Inhalation of vapors or mists of the product may be irritating to the respiratory system.

Skin contact: Causes skin irritation. May cause an allergic skin reaction.

Eye contact: Causes serious eye irritation. This product may be severely irritating to the eyes.

Ingestion: Ingestion of this product may cause nausea, vomiting and diarrhea.

Hazardous Component(s)	LD50s and LC50s	Immediate and Delayed Health Effects	
Surfactant	None	No Records	
Organic ester	None	No Records	
Potassium isostearate	None	No Records	
Dipotassium tetraborate	None	Metabolic	
Benzotriazole	Oral LD50 (Rat) = 600 mg/kg Oral LD50 (Mouse) = 615 mg/kg	Irritant, Central nervous system	

Hazardous Component(s)	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Surfactant	No	No	No
Organic ester	No	No	No
Potassium isostearate	No	No	No
Dipotassium tetraborate	No	No	No
Benzotriazole	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: Follow all local, state, federal and provincial regulations for disposal.

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 regulatedHazard class or division:NoneIdentification number:NonePacking 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 regulatedHazard class or division:NoneIdentification number:NonePacking group:None

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:
CERCLA/SARA Section 311/312:
CERCLA/SARA Section 313:

None above reporting de minimis.
Immediate Health, Delayed Health
None above reporting de minimis.

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: One or more components are not listed on, and are not exempt from listing on either the

Domestic Substances List or the Non-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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