Safety Data Sheet



Revision Number: 004.2 Issue date: 02/10/2020

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: BONDERITE L-FM F 5014 FORMING IDH number:

LUBRICANT ACHESON known as

MULTAN F 5014

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

Company address: Henkel Corporation One Henkel Way

One Henkel Way Rocky Hill, Connecticut 06067 Item number: 594495 ed Region: United States

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

MEDICAL EMERGENCY Phone: Poison Control Center

594495

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 DAMAGING FERTILITY OR THE UNBORN CHILD.

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

5 % 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

IDH number: 594495 Product name: BONDERITE L-FM F 5014 FORMING LUBRICANT ACHESON known as MULTAN F

Hazardous Component(s)	CAS Number	Percentage*
1,1'-iminodipropan-2-ol	110-97-4	1 - 5
Methylbenzotriazole	29385-43-1	1 - 5
cyclohexylamine	108-91-8	0.1 - 1
4-(2-Nitrobutyl)morpholine	Proprietary	0.1 - 1

^{*} Exact percentages may vary or are trade secret. Concentration range is provided to assist users in providing appropriate protections.

FIRST AID MEASURES

Inhalation: If inhaled, immediately remove the affected person to fresh air. If symptoms

develop and persist, get medical attention.

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 eyes, rinse immediately with plenty of water and seek

medical advice.

Ingestion: Seek medical advice. Rinse mouth, do not induce vomiting, consult a doctor.

Symptoms: See Section 11.

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

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 personal

protective equipment.

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

disposal. Dispose of according to Federal, State and local governmental

regulations.

7. HANDLING AND STORAGE

Handling: Avoid skin and eye contact. Avoid breathing vapors or mists of this product.

Wash thoroughly after handling. Provide adequate ventilation. Do not take

internally. For industrial use only.

Storage: Not available.

IDH number: 594495

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
1,1'-iminodipropan-2-ol	None	None	None	None
Methylbenzotriazole	None	None	None	None
cyclohexylamine	10 ppm TWA	None	None	None
4-(2-Nitrobutyl)morpholine	None	None	None	None

Provide local and general exhaust ventilation to effectively remove and **Engineering controls:**

prevent buildup of any vapors or mists generated from the handling of this

product.

If ventilation is not sufficient to effectively prevent buildup of aerosols, mists or Respiratory protection:

vapors, appropriate NIOSH/MSHA respiratory protection must be provided.

Eye/face protection: Wear safety glasses; chemical goggles (if splashing is possible).

Skin protection: Chemical resistant, impermeable gloves. Use of impervious apron and boots

are recommended.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Liquid Amber Color: Odor: Mild Odor threshold: Not available. :Ha 8.4 - 8.8

Not determined Vapor pressure: Boiling point/range: > 100 °C (> 212°F) Melting point/ range: Specific gravity: Not determined

1.035 - 1.055 at 60 °F (15.56 °C)

Vapor density: Not determined Flash point: Not applicable Flammable/Explosive limits - lower: Not applicable Flammable/Explosive limits - upper: Not applicable Autoignition temperature: Not applicable Flammability: Not applicable **Evaporation rate:** Not determined Solubility in water: Complete Partition coefficient (n-octanol/water): Not determined **VOC** content: Not applicable Not available. Viscosity: **Decomposition temperature:** Not available.

STABILITY AND REACTIVITY

Stability: Stable at normal conditions.

Hazardous reactions: None under normal processing.

Hazardous decomposition

products:

Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low

molecular weight hydrocarbons. Decomposes with heat to produce oxides of nitrogen.

Incompatible materials: Strong oxidizing agents.

Reactivity: Nitrites may react with organic amines to form nitrosamines which can cause cancer. This

product reacts with acids.

Conditions to avoid: Store away from incompatible materials.

TOXICOLOGICAL INFORMATION

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

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Potential Health Effects/Symptoms

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

Skin contact: This product may cause irritation to the skin. May cause skin sensitization.

Eye contact: This product may cause irritation to the eyes.

Ingestion: Ingestion of this product is unlikely. However, ingestion of product may produce gastrointestinal

irritation and disturbances.

Hazardous Component(s)	LD50s and LC50s	Immediate and Delayed Health Effects	
1,1'-iminodipropan-2-ol	Oral LD50 (Rat) = 4,765 mg/kg Oral LD50 (Mouse) = 2,120 mg/kg Oral LD50 (Rabbit) = 4,700 mg/kg Dermal LD50 (Rabbit) = 8,000 mg/kg Dermal LD50 (Rabbit) = 8,000 mg/kg	Allergen, Central nervous system, Corrosive, Eyes, Irritant	
Methylbenzotriazole	None	Irritant, Central nervous system	
cyclohexylamine	Oral LD50 (Rat) = 156 mg/kg Oral LD50 (Mouse) = 224 mg/kg Dermal LD50 (Rabbit) = 277 mg/kg	Allergen, Blood, Central nervous system, Corrosive, Eyes, Irritant, Metabolic, Mutagen, Reproductive	
4-(2-Nitrobutyl)morpholine	None	Allergen, Irritant	

Hazardous Component(s)	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
1,1'-iminodipropan-2-ol	No	No	No
Methylbenzotriazole	No	No	No
cyclohexylamine	No	No	No
4-(2-Nitrobutyl)morpholine	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. This

product contains a chelating agent.

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

under RCRA. 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 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)

IDH number: 594495

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 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: None above reporting de minimis.

cyclohexylamine (CAS# 108-91-8) 100 lbs. (45.4 kg) **CERCLA Reportable quantity:**

California Proposition 65: This product contains a chemical known in the State of California to cause cancer.

Canada Regulatory Information

IDH number: 594495

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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