Safety Data Sheet



Revision Number: 007.0

1. PRODUCT AND COMPANY IDENTIFICATION

IDH number:

Product name:

Product type:

Restriction of Use:

Company address:

Henkel Corporation

One Henkel Way

BONDERITE L-FM 3015 FORMING LUBRICANT ACHESON known as **MULTAN 3015** Water Soluble Cooling Lubricants for Metal Working None identified Rocky Hill, Connecticut 06067

Region: **United States** Contact information: Telephone: (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 Internet: www.henkelna.com

594286

2. HAZARDS IDENTIFICATION

WARNING:

EMERGENCY OVERVIEW 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 thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wear eye and face protection. Wear protective gloves.
Response:	F 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:	Not prescribed
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.

IDH number: 594286

3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Component(s)	CAS Number	Percentage*	
Amine soap	Unknown	10 - 30	
Triethanolamine	102-71-6	10 - 30	
Amine borate	Proprietary	1 - 5	
Triazine compound	Proprietary	1 - 5	
Diethanolamine	111-42-2	1 - 5	

* Exact percentage is a trade secret. Concentration range is provided to assist users in providing appropriate protections.

4	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:	For skin contact flush with large amounts of water. Obtain medical attention if irritation persists.
Eye contact:	In case of contact with the eyes, rinse immediately with plenty of water for 15 minutes, and seek immediate medical attention.
Ingestion:	Seek medical advice. 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:	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. Do not allow product to enter sewer or waterways.
Clean-up methods:	Absorb spill with inert material. Shovel material into appropriate container for disposal.

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

7. HANDLING AND STORAGE

Handling:

Prevent contact with eyes, skin and clothing. Do not breathe vapor and mist. 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 the container tightly closed and in a cool, well-ventilated place. 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
Amine soap	None	None	None	None
Triethanolamine	5 mg/m3 TWA	None	None	None
Amine borate	None	None	None	None
Triazine compound	None	None	None	None
Diethanolamine	1 mg/m3 TWA Inhalable fraction and vapor. (SKIN) Inhalable fraction and vapor.	None	None	None
Engineering controls:		buildup of any vapors o	ust ventilation to effective r mists generated from t	
Respiratory protection:			effectively prevent buildu HA respiratory protectior	•
Eye/face protection:	Wear sa	afety glasses; chemical	goggles (if splashing is p	ossible).
Skin protection:	determi		le gloves. Gloves should ed contact. Use of imper	

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	liquid
Color:	Light a
Odor:	Amine
Odor threshold:	Not av
pH:	9.1 - 9
Vapor pressure:	Not de
Boiling point/range:	212 °F
Melting point/ range:	Not de
Specific gravity:	1.03 -
Vapor density:	Not ap
Flash point:	Not ap
Flammable/Explosive limits - lower:	Not ap
Flammable/Explosive limits - upper:	Not ap
Autoignition temperature:	Not ap
Evaporation rate:	Not de
Solubility in water:	Comp
Partition coefficient (n-octanol/water):	Not de
VOC content:	Not av
Viscosity:	Not av
Decomposition temperature:	Not av

ight amber Amine Not available. 9.1 - 9.4 (5% solution) Not determined 212 °F (100°C) calculated Not determined .03 - 1.05 at 16 °C (60.8 °F) Not applicable Not applicable Not applicable Not applicable Not applicable Not determined Complete Not determined Not available. Not available. Not available.

10. STABILITY AND REACTIVITY Stability: Stable at normal conditions. Hazardous reactions: Will not occur. Upon decomposition, this product may yield oxides of nitrogen and ammonia, carbon dioxide, Hazardous decomposition carbon monoxide and other low molecular weight hydrocarbons. products: Incompatible materials: This product reacts with acids. Reactivity: Not available. Conditions to avoid: Do not mix this product with nitrites or other nitrosating agents because a carcinogenic nitrosamine may be formed.

11. TOXICOLOGICAL INFORMATION

Relevant routes of exposure: Skin, Inhalation, Eyes

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. A component in this product may be absorbed
	through the skin in harmful amounts. Prolonged contact with this product may cause allergic
	skin sensitization reactions.
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	
Amine soap	None	No Data	
Triethanolamine	Oral LD50 (RAT) = 8.0 g/kg Dermal LD50 (RABBIT) = > 20,000 mg/kg	Irritant, Allergen	
Amine borate	None	Cardiac, Central nervous system, Developmental, Gastrointestinal, Irritant, Kidney, Metabolic, Reproductive	
Triazine compound	None	Irritant, Allergen	
Diethanolamine	Oral LD50 (RAT) = 710 mg/kg Oral LD50 (RAT) = 1.82 g/kg	Allergen, Blood, Brain, Central nervous system, Corrosive, Heart, Irritant, Kidney, Liver, Respiratory, Spleen	

Hazardous Component(s)	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Amine soap	No	No	No
Triethanolamine	No	No	No
Amine borate	No	No	No
Triazine compound	No	No	No
Diethanolamine	No	Group 2B	No

12. ECOLOGICAL INFORMATION

Ecological information:

No data available.

13.	DISPOSAL CONSIDERATIONS
Inform	nation provided is for unused product only.
Recommended method of disposal:	Follow all local, state, federal and provincial regulations for disposal.
Hazardous waste number:	Material, if discarded, is not expected to be a characteristic hazardous was under RCRA.
14	TRANSPORT INFORMATION
The transport information provided in thi package/configuration.	s section only applies to the material/formulation itself, and is not specific to a
U.S. Department of Transportation Grour	ıd (49 CFR)
Proper shipping name:	RQ, Environmentally hazardous substances, liquid, n.o.s.
Hazard class or division:	9
Identification number:	UN 3082
Packing group:	
DOT Hazardous Substance(s):	Diethanolamine
International Air Transportation (ICAO/IA	ΤΑ)
Proper shipping name:	Environmentally hazardous substance, liquid, n.o.s.
Hazard class or division:	9
Identification number:	UN 3082
Packing group:	III
Water Transportation (IMO/IMDG)	
	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Water Transportation (IMO/IMDG) Proper shipping name: Hazard class or division:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. 9
Proper shipping name:	
Hazard class or division:	9
Proper shipping name: Hazard class or division: Identification number: Packing group:	9 UN 3082

TSCA 8 (b) Inventory Status: TSCA 12 (b) Export Notification:	All components are listed or are exempt from listing on the Toxic Substances Control Act Inventory. Triazine compound (CAS# 4719-04-4).
CERCLA/SARA Section 302 EHS: CERCLA/SARA Section 311/312: CERCLA/SARA Section 313:	None above reporting de minimis Immediate Health, Delayed Health 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). Diethanolamine (CAS# 111-42-2).
CERCLA Reportable quantity:	Diethanolamine (CAS# 111-42-2) 100 lbs. (45.4 kg)
California Proposition 65:	This product contains a chemical known in the State of California to cause cancer.
Export Restrictions:	This product is controlled for export by the United States Department of Commerce. The Export Classification Control Number (ECCN) is 1C995.a.2.a
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: Jennifer Mckay, Regulatory Affairs Specialist

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