Safety Data Sheet

Section 1: Identification

Name: TMA - Metalsafe / Mechanical Dish Detergent
Date Issued: 08/04/2017
Other Name: N/A
TMA Code: TM108615
Recommended Use: Metal safe high quality ware washing
Supplier Information: Technical Marketing Alliance 2335 Buttermilk Crossing Crescent Springs, KY 41017
Emergency Telephone: 800-424-9300
Product Information: 859-727-7854

Section 2: Hazard(s) Identification

Potential Health Effects

Signal Word = Danger
Label Elements:

Hazard Category:
Acute Oral Toxicity = 4 - Harmful if swallowed
Acute Dermal Toxicity = 4 - Harmful in contact with skin
Skin Corrosion/Irritation = 1A to 1C - Causes severe skin burns and eye damage
Eye Damage/Irritation = 1 - Causes serious eye damage

Precautionary Statement:
Prevention = Do not breathe dusts or mists, wash thoroughly after handling, wear protective gloves, clothing, eye protection, face protection.
Response = If swallowed, rinse mouth, do not induce vomiting. Take off contaminated clothing and rinse skin with water. Remove person to fresh air and keep comfortable for breathing. Call a poison center or doctor. If in eyes, rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Storage = Store containers in an upright position. Ensure container lids are in place and secure when not in use.
Disposal = Review all federal, state and local laws regarding disposal of this product.

Prolonged/Repeated Exposure Effects:
Eye: Similar to effects from acute exposure
Skin: Similar to effects from acute exposure except for expected damage to secondary tissue
Inhalation: Similar to acute exposure
Ingestion: Similar to acute exposure

The above listed potential effects are compiled based on a review of all component SDS's

Section 3: Composition Information on Ingredients

CAS Number	Chemical Name	% by Vol	RQ#	OSHA	TWA	STEL
1310-58-3	Potassium Hydroxide	<5	1000		No Data	No Data
1310-73-2	Sodium Hydroxide	<5	1000		$2mg/m^3$	No Data
7320-34-5	Tetrapotassium Pyrophosphate	5-10	No Data		No Data	No Data

%Phosphorus in product: 1.1%

Components listed above are hazardous as defined in 29 CFR 1910.1200. Their quantities are proprietary. All remaining components are considered non-hazardous and proprietary in their quantities

Section 4: First Aid Measures

Eye: Flush affected area with large quantities of water for at least 15 minutes. Obtain medical attention if irritation persists.
Skin: Flush affected area with large quantities of water for at least 15 minutes. Obtain medical attention if irritation persists.
Inhalation: If symptoms are experienced, remove victim to fresh air. Obtain medical attention if irritation persists.
Ingestion: Obtain medical attention.

Section 5: Fire Fighting Measures

Flash Point: N/A
Auto ignition Temperature: Not Determined
Flammability Limits: N/A
Extinguishing Media: Select extinguisher suitable for surrounding fire
Fire Fighting Methods: Use methods suitable for surrounding fire.
Unusual Fire Hazards: N/A

Section 6: Accidental Release Measures

Containment and Clean up: Observe all personal protective equipment noted in sections 5 and 8. Observe local, state, and federal laws and regulations that may apply to a release and disposal of this material.

Section 7: Handling and Storage

Store containers in an upright position. Ensure container lids are in place and secure when not in use.

Section 8: Exposure Controls

CAS Number	Chemical Name	OSHA	TWA	STEL
1310-58-3	Potassium Hydroxide		No Data	No Data
1310-73-2	Sodium Hydroxide		$2mg/m^3$	No Data
7320-34-5	Tetrapotassium Pyrophosphate		No Data	No Data

Engineering Controls: Use with adequate ventilation

PPE for Routine Handling and Spills: Wear safety glasses and chemical resistant gloves.
Eyes: Safety glasses recommended
Skin: Chemical protective gloves are recommended
Inhalation: No respiratory protection required w/ adequate ventilation

Section 9: Physical and Chemical Properties

Physical Form: Liquid	Odor: NIL	Freezing/Melting Point: N/D
Color: Red	Specific Gravity: >1	pH: Very Alkaline
Boiling Point: N/D	Viscosity: N/D	Vapor Density: N/D

Vapor Pressure: N/D

Section 10: Stability and Reactivity

Chemical Stability: Stable
Hazardous Polymerization: Will not Occur
Conditions to Avoid: N/A
Materials to Avoid: N/A
Hazardous Decomposition Products: N/A

Section 11: Toxicological Information

Special Hazard Information on Components: No known applicable information
Listed on NTP Report? No
Listed on IARC (Suspected Carcinogen)? No

Section 12: Ecological Information

Exotoxicity: N/D
Bio accumulative Potential: N/D
Persistence and Degradability: Similar to water
Mobility in Soil? N/D

Section 13: Disposal Considerations

Review all federal, state and local laws regarding disposal of this product.

Section 14: Transportation Information

UN 1760, Corrosive Liquid, N.O.S., Class 8, PG II (Contains Sodium Hydroxide, Potassium Hydroxide)

Section 15: Regulatory Information

Contents of this SDS comply with OSHA's Hazard Communication Standard 29 CFR 1910.1200.

TSCA Status: Sodium Hydroxide and Potassium Hydroxide, which are in this product are subject to the Toxic Substances Control Act (TSCA) section 12(b) export notification requirements delineated at 40 CFR part 707, subpart D.

EPA SARA Title III Chemical Listings: N/A
CERCLA Hazardous Substances: Yes (Sodium Hydroxide, Potassium Hydroxide)
Section 311/312 Hazard Class: Yes (Sodium Hydroxide, Potassium Hydroxide)
Section 313 Toxic Chemicals: N/A

Section 16: Other Information

Prepared by: P. Grado on 08/04/2017. The industrial hygiene and safe handling procedures are believed to be applicable. However, each user should review these recommendations in the specific context of the intended use and determine whether they are appropriate.