Safety Data Sheet

Section 1: Identification

Name: TMA - Metalsafe/Encapsulated Machine Detergent
Date Issued: 09/15/2017
Other Name: N/A
TMA Code: 108635
Recommended Use: Mechanical warewashing detergent
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: 1
Acute Oral Toxicity = 4 - Harmful if swallowed
Acute Dermal Toxicity = 4 - Harmful in contact with skin
Skin Corrosion/Irritation = 1B - Causes severe skin burns and eye damage
Eye Damage/Irritation = 1 - Causes serious eye damage

Precautionary Statement:
Prevention = Do not breathe dust, wash thoroughly after handling, wear protective gloves, clothing, eye protection, face protection.
Response = If swallowed, rinse mouth, do not induce vomiting. If on skin, take off contaminated clothing and rinse skin with water. Wash clothing and shoes thoroughly before reuse. If inhaled, remove person to fresh air and keep comfortable for breathing. Get medical attention immediately; 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 = Keep only in original container. Store containers in an upright position. Ensure container lids are in place and
Disposal = Review all federal, state and local laws regarding disposal of this product.

Prolonged/Repeated Exposure Effects: See section 2 for acute affects
Eye: Can cause serious eye damage.
Skin: Repeated skin contact may cause dermatitis or severe skin burns.
Inhalation: Inhaling dust can cause irritation of nose and throat.
Ingestion: Obtain immediate medical attention if ingested.
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 Wt.	RQ#	OSHA	TWA	STEL
497-19-8	Sodium Carbonate	28-33	N/A	No Data	5ppm	No Data
15091-58-2	Sodium Tripolyphosphate, Hexahydrate	32-37	N/A	No Data	No Data	No Data
10213-79-3	Sodium metasilicate pentahydrate	19-24	N/A	No Data	2 mg/m^3	No Data
51580-86-0	Sodium Dichloroisocyanurate, Dihydrate	2-7	N/A	No Data	No Data	No Data

%Phosphorus in product: 6.825%

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 symptoms persist.
Ingestion: Obtain medical attention.

Section 5: Fire Fighting Measures

Flash Point: N/A
Auto ignition Temperature: Not Determined
Flammability Limits: N/A
Fire Fighting Methods: Use methods suitable for surrounding fire.
Extinguishing Media: Select extinguisher 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
497-19-8	Sodium Carbonate	No Data	5ppm	No Data
15091-58-2	Sodium Tripolyphosphate, Hexahydrate	No Data	No Data	No Data
10213-79-3	Sodium metasilicate pentahydrate	No Data	2 mg/m^3	No Data
51580-86-0	Sodium Dichloroisocyanurate, Dihydrate	No Data	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.

Section 9: Physical and Chemical Properties

Physical Form: Powder	Odor: Bleach	Freezing/Melting Point: N/D
Color: White	Specific Gravity: N/A	pH: 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: Strong Acids, Hydrated Lime (Forms Sodium Hydroxide)
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

Ecotoxicity: No Data
Bio accumulative Potential: No Data
Persistence and Degradability: No Data
Mobility in Soil? No Data

Section 13: Disposal Considerations

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

Section 14: Transportation Information

UN 3262, Corrosive Solid, Basic, Inorganic, N.O.S., 8, PG III, (Sodium Metasilicate Pentahydrate)

Section 15: Regulatory Information

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

TSCA Status: Sodium Carbonate; Sodium Tripolyphosphate Hexahydrate; Sodium Metasilicate Pentahydrate; and Sodium Dichloroisocyanurate Dihydrate; which are chemical substances on this SDS, 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: No
CERCLA Hazardous Substances: No
Section 311/312 Hazard Class: Yes (Sodium Carbonate, Sodium Tripolyphosphate Hexahydrate, Sodium Metasilicate Pentahydrate, Sodium Dichloroisocyanurate Dihydrate)
Section 313 Toxic Chemicals: No

Section 16: Other Information

Prepared by: P. Grado on 09/15/2017. 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.