

MATERIAL SAFETY DATA SHEET

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LAST REVISION DATE: 01-06-01 APPROVAL: JJF
CURRENT REVISION DATE: 06-01-02 EMERGENCY PHONE: 800-613-6803

IDENTIFICATION

PRODUCT NAME: Tramfloc® 567

TSCA INVENTORY/CAS. NO.: 10043-01-3

CHEMICAL NAME: ALUMINUM SULPHATE HYDRATE, CAS 7784-31-8 48%
WATER CAS 7732-18-5 51%

HAZARDOUS INGREDIENTS - % COMPOSITION - OSHA-TWA,ppm - ACGIH-TWA,ppm
SULFURIC ACID 1.00 10 5

PHYSICAL DATA

BOILING POINT (F/C): >218/103 SPECIFIC GRAVITY (Water = 1): 1.30

VAPOR PRESSURE (mm Hg): NA MELTING POINT: NA

VAPOR DENSITY (Air - 1): NA EVAPORATION RATE: 1
(Water = 1)

SOLUBILITY IN WATER: COMPLETE FREEZING POINT (F/C): 32/0

% VOLATILE: 51, WATER TYPICAL pH: 1.2 TO 2.8

APPEARANCE AND ODOR: clear and odorless liquid.

SPECIAL HAZARD DESIGNATIONS

NFPA: HEALTH * FLAMMABILITY * REACTIVITY * PROTECTIVE EQUIPMENT
2 0 0 2

KEY: 0-MINIMAL, 1-SLIGHT, 2-MODERATE, 3-SERIOUS, 4-SEVERE

NR: NOT REQUIRED, NE: NOT ESTABLISHED, NA: NOT APPLICABLE
FIRE AND EXPLOSION DATA: TRAMFLOC 567

FLAMMABLE LIMITS IN AIR, % BY VOLUME: UPPER: NE; LOWER: NE
FLASH POINT (TEST METHOD) : TAG CLOSED CUP (ASTM D56): NE
TAG OPEN CUP (ASTM D1310): NE

EXTINGUISHING MEDIA: Product is non-flammable as supplied. Use water, foam, carbon dioxide or dry chemical to extinguish fire.
SPECIAL FIRE FIGHTING PROCEDURES: Wear self-contained breathing apparatus while extinguishing fire.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Product is non-flammable as supplied.

Do not depend on ambient air for breathing air supply during fires. Fire may result into release of toxic gases such as oxides of carbon and sulfur.

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REACTIVITY DATA

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STABILITY: Stable under normal conditions of temperature and pressure.

HAZARDOUS POLYMERIZATION: Will not occur.

CONDITIONS TO AVOID: Prevent dispersion of mist or dust into air.

MATERIALS TO AVOID: Bases, and some metals with whose contact hydrogen may evolve.

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:

A-Thermal decomposition may release gases such oxides of sulfur.

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HEALTH HAZARD DATA

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ROUTES OF ENTRY/EFFECTS OF EXPOSURE:

Ingestion (swallowing): Will cause nausea and vomiting.

Skin contact: Very irritating to skin.

Eye contact: Will cause irritation and redness and corneal burns due to reaction to form sulfuric acid.

Inhalation: Vapors may be irritating to nose, throat, and respiratory tract producing symptoms of nausea in poorly ventilated areas.

TARGET ORGAN EFFECT: NE; DELAYED EFFECTS: NE; CARCINOGENICITY: NE

TOXICITY: Dermal LD 60 - oral mouse >6200 mg/Kg

Intraperitoneal LC 50 - Rat >410 mg/Kg

EMERGENCY AND FIRST AID DATA

Ingestion: If vomiting occurs, keep head lower than hips to help prevent aspiration. Treat symptomatically and obtain medical attention.

Skin contact: Remove contaminated shoes and clothing at once. Wash these items for 20 minutes with soap or until no chemical residual remains.

Obtain medical attention at once. If patient is burned, cover affected area with sterile dry loose-fitting dressing.

Eye contact: Immediate flush eyes with copious amounts of water for at least 15 minutes. Hold eyelids apart during washing. Do not neutralize with chemical agents. Obtain medical attention. Wash for 15 more minutes if physician is not immediately available. Do not use oils or ointments.

Inhalation: Remove subject to fresh air at once. Obtain medical attention.

Perform CPR if necessary. Keep patient calm.

Federal Exposure Limits: OSHA 2 mg/M₃ TWA; ACGIH 2 mg/M₃ TWA; NIOSH 2 mg/M₃ TWA

SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

Soak up spills with absorbent material and scoop into drums. Follow all local, state, and federal regulations for disposal. Do not discharge into lakes and streams. Stop leak if you can do so without risk. Use caution to avoid falls. Small spills may be allowed to dry before recovery.

WASTE DISPOSAL METHOD:

Hazardous waste. Follow all local, state, and federal regulations for waste disposal. Reportable Quantity per 40 CFR 302.4 is 5,000 lbs.(anhydrous); do not touch spilled material.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:

Wear rubber gloves and safety goggles. Avoid breathing vapors and avoid skin contact.

SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: Wear self-contained breathing apparatus during a fire or if there is a potential for uncontrolled release or any other circumstances in which air purifying respirators may not be adequate. Wearing a NIOSH/MSHA approved air purifying respirator with a particulate cartridge may be permissible under misting conditions or dusts if material has dried. This respirator provides limited protection.

VENTILATION REQUIREMENT: Local exhaust

PROTECTIVE GLOVES: Yes.

EYE PROTECTION: Splash proof or dust resistant safety goggles and a full face shield to prevent contact with this substance.

OTHER PROTECTION: Long sleeve shirt, long pants, boots, and hat.

WORK/HYGIENIC PRACTICES: Follow normal hygienic practices for handling chemicals.

HANDLING AND STORAGE

Observe all federal, state and local regulations when storing this substance. Store in appropriate containers and tanks only. Store away from incompatible substances. Safety showers and eye wash fountains equipped with heat traced freeze protection should be present. A gentle flow of potable water should be plumbed to the eye washes.

TRANSPORTATION DATA

DOT Proper Shipping Description: Corrosive liquid, acidic, inorganic, N. O. S. (Aluminum sulfat), 8, UN3264, PG III

DOT Hazard Class or Division: 8 Corrosive Material.

DOT Packing Group: PG III

DOT Labeling Requirements: Corrosive

DOT Packaging Authorization: Exceptions: None

NON Bulk Packaging: 49 CFR 173.203 and 243 Bulk Packaging

DISPOSAL

Dispose of in accordance with all federal, state and local health and pollution regulations.

ADDITIONAL REGULATORY STATUS INFORMATION

TSCA: Yes

CERCLA SECTION 103 (40 CFR 302.4)

SARA SECTION 302 (40 CFR 355.30): No

SARA SECTION 304 (40 CFR 355.40): No

SARA SECTION 313 (40 CFR 372.85): No

OSHA Process Safety (29 CFR 1910.119): No

SARA HAZARD CATEGORIES:

SARA SECTION 311/312 (40 CFR 370.21)

ACUTE HAZARD: Yes

CHRONIC HAZARD: No

FIRE HAZARD: No

REACTIVITY HAZARD: No

SUDDEN RELEASE HAZARD: No

The information contained herein is to the best of our knowledge and belief accurate. However, since the conditions of handling and use are beyond our control, Tramfloc, Inc. makes no guarantee for results obtained, and assume no responsibility for damages incurred by use of this product. It is the responsibility of the user to comply with all federal, state, and local laws and regulations.

NEW JERSEY/PENNSYLVANIA RTK TOTAL INGREDIENTS LABEL TITLE 8

CAS NO. NJEIN TRADE SECRET COMMON NAME\COMMENTS

7784-31-8
7664-93-9
7732-18-5

ALUMINUM SULFATE
SULFURIC ACID
WATER

PRODUCT NAME: TRAMFLOC 567

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FOR CALIFORNIA CUSTOMERS ONLY
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CALIFORNIA PROPOSITION 65: No