

MATERIAL SAFETY DATA SHEET

SECTION 1 - CHEMICAL PRODUCT and COMPANY IDENTIFICATION

PRODUCT NAMES: TRAMFLOC® 550, 551
DESCRIPTION: Proprietary Water Soluble Aluminum Blend

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SUPERSEDES: 08/25/99

TRAMFLOC, INC.
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EMERGENCY TELEPHONE: 24 hours a day, 7 days a week; CHEMTREC: 800-424-9300

PROPER SHIPPING NAME: (49CFR 172.101): None
D.O.T. HAZARD NAME (49CFR 172.101): None D.O.T. ID NUMBER (49CFR 172.101): None
D.O.T. HAZARD CLASS (49CFR 172.101): None
RCRA HAZARD CLASS (40CFR 261) (IF DISCARDED): None
E.P.A. PRIORITY POLLUTANTS (40CFR 122.53): None
HEALTH (NFPA): 2 FLAMMABILITY (NFPA): 0 REACTIVITY (NFPA): 0

AS PER NSF, MAXIMUM USE OF PRODUCT IN POTABLE WATER IS 250 mg/L

SECTION 2 - HAZARDOUS INGREDIENTS AS DEFINED IN 29 CFR 1910.1200

CAS NO.: Proprietary INGREDIENT: Contains water soluble aluminum compounds.
EXPOSURE LIMITS: OSHA PEL/ACGIH TLV FOR ALUMINUM SOLUBLE SALTS: TWA
2 mg/m³ AS ALUMINUM.

SECTION 2 A - AQUATIC TOXICITY

SPECIES: LC50/HRS
PIMELPHALES PROMELAS: 1056 mg/L/24 hrs. 832 mg/L/48 hrs. 684 mg/L/72 hrs. 609 mg/L/96hrs. DAPHNIA
MAGNA: 642 mg/L/24 hrs. 397 mg/L/48 hrs.

SECTION 3 - EFFECTS OF OVEREXPOSURE

EYE: Direct contact irritates slightly to moderately with redness and swelling.
SKIN: A single relatively short exposure causes no known adverse effect. Repeated exposure may cause irritation.
INHALATION: Inhaling dust or mist created during use may injure the respiratory system and cause an adverse lung reaction.
ORAL: Small amounts transferred to the mouth by fingers during use, etc., should not injure. Swallowing large amounts may cause injury.
THIS PRODUCT, AS WITH ANY CHEMICAL, MAY ENHANCE ALLERGIC CONDITIONS ON CERTAIN PEOPLE.

SECTION 4 - EMERGENCY AND FIRST AID PROCEDURES

EYES: Immediately flush with water for 15 minutes. Seek medical attention immediately.
SKIN: Wipe and flush with water. Wash with soap and water.
INHALATION: Seek medical attention if there is any discomfort.
ORAL: Seek medical attention if large amounts are swallowed or if there is any discomfort.

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SECTION 5 - FIRE AND EXPLOSION DATA

FLASH POINT (METHOD USED): None, not flammable.

EXTINGUISHING MEDIA: Cool containers with water fog.

SPECIAL FIRE FIGHTING PROCEDURES: Self-contained breathing apparatus and protective clothing should be worn in fighting fires involving chemicals.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Hazardous chlorine compounds may form when exposed to fire or high heat.

SECTION 6 - PHYSICAL DATA

BOILING POINT (AT 760 MM HG): Approximately 212° F/100° C.

SPECIFIC GRAVITY (AT 77° F/25° C) 1.34.

MELTING POINT: Approximately 32° F /0° C.

VAPOR PRESSURE (AT 77° F/25° C): 24 mm (water).

VAPOR DENSITY (AIR=1 AT 77° F/25° C): That of moist air.

PERCENT VOLATILE BY WEIGHT (%): 50% (water).

EVAPORATION RATE: As water.

SOLUBILITY IN WATER (%): Approximately 100.

ODOR: None APPEARANCE: Liquid COLOR: None, clear.

NOTE: The above information is not intended for use in preparing product specifications. Contact Tramfloc, Inc. before writing specifications.

SECTION 7 - REACTIVITY DATA

STABILITY: Stable

INCOMPATIBILITY (MATERIAL TO AVOID): Oxidizing material may cause a reaction. Caustics will precipitate aluminum hydroxide.

CONDITIONS TO AVOID: Exposure to the above and continuous high temperatures.

HAZARDOUS DECOMPOSITION PRODUCTS: Chlorine compounds, metal oxides.

HAZARDOUS POLYMERIZATION: Will not occur.

SECTION 8 - SPILL, LEAK, MAINTENANCE, REPAIR AND DISPOSAL PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Use absorbent material to collect and contain. Wash with clear water only.

PERSONAL PROTECTIVE EQUIPMENT:

EYES: Safety glasses, as a minimum. Wear goggles, if splashing could occur. SKIN: Washing at mealtime and end of shift is adequate. INHALATION: No respiratory protection should be needed.

WASTE DISPOSAL METHOD: Manufacturer suggests that all local, state, and federal regulations concerning health and pollution be reviewed to determine approved disposal procedures. Contact the manufacturer if there are any disposal questions.

D.O.T. (49CFR 171.8)/E.P.A. (40CFR 117) SPILL REPORTING INFORMATION:

HAZARDOUS SUBSTANCE: None REPORTABLE QUANTITY: Not applicable

CONCENTRATION OF HAZARDOUS SUBSTANCE: Not applicable.

REPORTABLE QUANTITY OF PRODUCT: Not applicable.

SEE SECTION 11 FOR ADDITIONAL SARA COMPLIANCE INFORMATION.

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SECTION 9 - HANDLING PRECAUTIONS

PERSONAL PROTECTIVE EQUIPMENT:

EYES: Safety glasses, as a minimum. Wear goggles, if splashing could occur.

SKIN: Washing at mealtime and end of shift is adequate. Good practice requires that gross amounts of any chemical be removed from the skin as soon as practical, especially before eating or smoking.

INHALATION: No respiratory protection should be needed unless mists are created.

VENTILATION: LOCAL EXHAUST: None should be needed. General ventilation is recommended.

SUITABLE RESPIRATOR: Dust/mist type.

THESE PRECAUTIONS ARE FOR ROOM TEMPERATURE HANDLING. USE AT ELEVATED TEMPERATURES, OR AEROSOL/SPRAY APPLICATIONS MAY REQUIRE ADDED PRECAUTIONS. COMMENTS: Avoid eye contact.

SECTION 10 - SPECIAL PRECAUTIONS

Use reasonable care and caution in handling and storage. Store between 32° F/0° C and 120° F/49° C.

SECTION 11 - COMMENTS

ADDITIONAL SARA REGULATORY COMPLIANCE INFORMATION

SECTION 312 HAZARD CLASS: Immediate and delayed.

SECTION 313 NOTIFICATION: Not applicable; either none present or none present in regulated quantities.

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.