

MATERIAL SAFETY DATA SHEET

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LAST REVISION DATE: 01-06-01 APPROVAL: JJF
CURRENT REVISION DATE: 06-01-02
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IDENTIFICATION

PRODUCT NAMES Tramfloc® 800, 801 EPA PRODUCT REGSTRAT. NO: NA
TSCA INVENTORY/CAS. NO.: 577-11-7 EPA ESTABLISHMENT NO.: NA
COMMON NAME: DIOCTYL SODIUM SULFOSUCCINATE

HAZARDOUS INGREDIENTS - % COMPOSITION - OSHA-TWA,ppm - ACGIH-TWA,ppm, HM CL

Table with 5 columns: Ingredient Name, OSHA-TWA, ACGIH-TWA, HM, CL. Rows include 2-ETHYL HEXANOL and DIETHYLENE GLYCOL.

PHYSICAL DATA

BOILING POINT (F/C): >212/100 SPECIFIC GRAVITY (Water = 1): 1.09
VAPOR PRESSURE (mm Hg): 10 MELTING POINT: NA
VAPOR DENSITY (Air - 1): >1 EVAPORATION RATE: <1
SOLUBILITY IN WATER: DISPERSIBLE (Butyl Acetate = 1)
% VOLATILE: 60, WATER FREEZING POINT (F/C): 32/0
TYPICAL pH: 12.2 TO 12.8

APPEARANCE AND ODOR: Clear light viscous liquid with distinctive organic odor.

SPECIAL HAZARD DESIGNATIONS

NFPA: HEALTH * FLAMMABILITY * REACTIVITY * PROTECTIVE EQUIPMENT
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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 800 & 801

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 will not burn unless preheated. Cool with water spray. If burning use water fog, foam, carbon dioxide or dry

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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, nitrogen, and sulfur.

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REACTIVITY DATA

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STABILITY: Stable.

MATERIALS TO AVOID: Avoid contact with strong oxidizing agents or open flames.

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:

- A-Thermal decomposition may release oxides of carbon and sulfide.
- B-Combustion of dry film may release oxides of carbon, nitrogen, and sulfur.

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HEALTH HAZARD DATA

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ROUTES OF ENTRY/EFFECTS OF EXPOSURE:

- Ingestion (swallowing): May cause nausea and vomiting.
- Skin contact: Slightly irritating to skin.
- Eye contact: Possibly irritating to eyes.
- 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 50 - Albino rabbit >10.15 gm/Kg
Inhalation LC 50 - Rat >9.93 mg/liter
Oral LD 50 - Female Rats: 12.5 gm/Kg; Male Rats: 12.1 gm/Kg

EMERGENCY AND FIRST AID DATA

- Ingestion: Seek medical attention.
- Skin contact: Wash affected skin with soap and water and obtain medical attention.
- Eye contact: Wash eyes with large amounts of water for at least 15 minutes. Obtain medical attention.
- Inhalation: Remove subject to fresh air. Obtain medical attention.

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SPILL OR LEAK PROCEDURES

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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. The floor may be slippery. Use caution to avoid falls.

WASTE DISPOSAL METHOD:

Nonhazardous waste. Follow all local, state, and federal regulations for waste disposal.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:

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

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SPECIAL PROTECTION INFORMATION

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RESPIRATORY PROTECTION: None required if good ventilation is maintained. Otherwise, wear self-contained breathing apparatus. Pressure Demand, MSHA/NIOSH approved or equivalent.

VENTILATION PROTECTION: Local exhaust: Yes: Mechanical (general): Yes.

PROTECTIVE GLOVES: Yes.

EYE PROTECTION: Safety goggles.

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

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

TRANSPORTATION: This product is not regulated by Dot, IMO, or IATA.

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SARA-TITLE III INGREDIENT INFORMATION

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INGREDIENTS

THRESHOLD REPORTING QUANTITY: NONE

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FOR CALIFORNIA CUSTOMERS ONLY

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CALIFORNIA PROPOSITION 65: This product does contain toxic chemicals

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currently on the California List of known carcinogens and reproductive toxins.

PRODUCT INFORMATION: Pursuant to the California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65) we are providing this information to you. In part, this law requires that "clear and reasonable warning" be given to any individual, knowingly or intentionally exposed to any substances identified by the state as being cancer or reproductive hazards, unless it can be shown that the exposure poses "no significant risk." It has not been feasible to carry out the detailed analysis that would be required to determine whether each of the materials on the list of chemicals known to cause cancer or reproductive toxicity associated with the Act, is present in detectable amounts in our products. Based on available data, the following chemicals listed by Proposition 65 may be present in this product: NA

Please read the entire MSDS before using a product and always use it as directed by the Material Safety Data Sheet. Of course, you may wish to conduct further evaluation based on your specific end-use. The warning above is the result of compliance with Proposition 65. There is no new scientific or technical evidence which suggests an increased risk associated with using this product. We are continuing to monitor proposition 65 activity and will keep you informed of any pertinent changes.