

MATERIAL SAFETY DATA SHEET

SECTION 1 - CHEMICAL PRODUCT and COMPANY IDENTIFICATION

PRODUCT NAMES: TRAMFLOC® 750-760 & 800-819

DATE ISSUED: 06/01/03
SUPERSEDES: 05/07/99

DESCRIPTION: Alkoxylated phenolic resin

COMPANY IDENTIFICATION:

Tramfloc, Inc.
P. O. Box 350
Tempe, AZ 85280-0350
480-491-6895

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

SECTION 2 - COMPOSITION/INFORMATION on INGREDIENTS

CAS No.	Chemical Identity
68511-70-6	Alkoxylated nonyl phenol resin
1330-20-7	Xylenes

This product is considered hazardous according to OSHA 1910.1200.

SECTION 3 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW - Viscous liquid with a xylene odor. Avoid contact with skin, eyes and clothing. May cause eye irritation. This product is flammable.

POTENTIAL HEALTH EFFECTS

EFFECTS OF OVEREXPOSURE - EYES: May cause irritation experienced as discomfort or pain and seen as excess redness and swelling of the eye, and possible injury to the cornea.

EFFECTS OF OVEREXPOSURE - SKIN: May cause irritation with discomfort and seen as local redness and possible swelling. Prolonged contact, as with clothing wetted with material, may cause more severe irritation and discomfort.

EFFECTS OF OVEREXPOSURE - INHALATION: Vapors or mist especially as generated from heating the product or as from exposure in poorly ventilated areas or confined spaces, are irritating and cause nasal discharge, coughing and discomfort in nose and throat. Prolonged or repeated overexposure may result in lung damage.

EFFECTS OF OVEREXPOSURE - INGESTION: Moderately toxic. May cause abdominal discomfort, nausea, vomiting, and diarrhea.

EFFECTS OF OVEREXPOSURE - SENSITIZATION PROPERTIES: Unknown.

EFFECTS OF OVEREXPOSURE - CHRONIC HAZARDS: Repeated skin contact may cause a persistent irritation or dermatitis. Repeated inhalation may cause lung damage.

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MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Because of its defatting properties, prolonged and repeated skin contact may aggravate an existing dermatitis. Repeated overexposure may aggravate existing liver or kidney disease. Repeated overexposure may aggravate or enhance existing nervous system dysfunction. Overexposure may aggravate existing blood disorders, such as anemia.

OTHER REMARKS: This product contains xylene. Prolonged and repeated exposure of laboratory animals to high levels of xylene via inhalation or ingestion has caused liver and kidney effects as well as central nervous system depression. Inhalation of high concentrations has also caused hearing loss in some animal studies. Xylene has also been shown to cause embryo/fetal toxicity and birth defects in laboratory animals, but only at doses which cause maternal toxicity.

SECTION 4 - FIRST AID MEASURES

INHALATION: If inhaled, remove to fresh air. If not breathing, clear person's airway and give artificial respiration. If breathing is difficult, qualified medical personnel may administer oxygen. Get medical attention at once.

SKIN: Remove contaminated clothing and launder before reuse. Wash effected area with soap and water for at least 15 minutes or until all traces of material are removed. Get medical attention if skin irritation develops or skin contact has been prolonged.

EYES: Immediately flush with plenty of water for at least 15 minutes with eyelids open. Call a physician.

INGESTION: If patient is conscious and can swallow, give 16 oz. of water. Induce vomiting as directed by medical personnel. Do not induce vomiting or give anything by mouth to an unconscious or convulsing person.

SECTION 5 - FIRE-FIGHTING MEASURES

IGNITION TEMPERATURE - AIT (° C): Not determined.

FLASHPOINT: 29° C (84.2° F) PMCC; **UNUSUAL OR EXPLOSIVE HAZARDS:** DANGER! Flammable materials may release vapors which travel long distances, ignite and flash back. Containers may explode in a fire. Do not expose to heat, sparks, flame, or other sources of ignition.

FLAMMABLE LIMITS % (Lower - Upper): Lower: 1.1; Upper: 6.4

RECOMMENDED FIRE EXTINGUISHING AGENTS AND SPECIAL PROCEDURES:

Water may be ineffective on flames but should be used to cool fire-exposed containers and provide protection for persons attempting to stop leaks. Use water spray, dry chemical, foam or carbon dioxide to extinguish flames. Use water spray to cool fire-exposed containers.

SPECIAL PROTECTIVE EQUIPMENT: Wear full protective clothing and positive pressure breathing apparatus. Approach fire from up wind to avoid hazardous vapors and toxic decomposition products.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

PROCEDURES IN CASE OF ACCIDENTAL RELEASE, BREAKAGE OR LEAKAGE: Eliminate all ignition sources including internal combustion engines and power tools. Ventilate area. Barricade the immediate hazard area. Stay up wind and warn of possible down wind explosion hazard. Avoid breathing vapor. Avoid contact with skin, eyes, or clothing. Pressure demand air supplied respirators should always be worn when the airborne concentration of the contaminant or oxygen is unknown. Other wise, wear respiratory protection and other personal protective equipment

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as appropriate for the potential exposure hazard. Contain spill if possible. Remove with inert absorbent. Prevent entry into sewers and waterways.

SECTION 7 - HANDLING AND STORAGE

HANDLING: Minimum feasible handling temperatures should be maintained. Eye wash and safety shower should be available near by when this product is handled or used.

STORAGE: Store away from heat and open flame. Periods of exposure to high temperatures should be minimized. Water contamination should be avoided.

SECTION 8 - EXPOSURE CONTROLS/ PERSONAL PROTECTION

PERSONAL PROTECTIVE EQUIPMENT (Type):

EYE/FACE PROTECTION: Avoid eye contact. Chemical type goggles, or face shield should be worn. Do not wear contact lenses.

SKIN PROTECTION: Protective clothing must be worn. Launder when soiled. Gloves resistant to chemicals and petroleum distillates required. When handling large quantities, impervious suits, gloves, and rubber boots must be worn.

RESPIRATORY PROTECTION: Airborne concentrations should be kept to lowest levels possible. If vapor, mist, or dust is generated and the occupational exposure limit of the product, or any component of the product, is exceeded, use appropriate NIOSH or MSHA approved air purifying or air supplied respirator after determining the airborne concentration of the contaminant. Air supplied respirators should always be worn when airborne concentration of the contaminant or oxygen content is unknown.

VENTILATION: Adequate to meet component occupational exposure limits.

EXPOSURE LIMIT FOR THE TOTAL PRODUCT: None established for product. See section 2.

SECTION 9 - PHYSICAL and CHEMICAL PROPERTIES

PHYSICAL STATE, COLOR and ODOR: Viscous liquid with xylene odor.

pH 8-10. BOILING POINT: 138⁰ C 280⁰F **MELTING/FREEZING POINT:** 0⁰ C

WATER SOLUBILITY (%): 0.1-1; **SPECIFIC GRAVITY:** 0.99 @ 20⁰ C **VAPOR PRESSURE:** Not determined.

VAPOR DENSITY (Air=1): >1 **VISCOSITY:** 3475 cSt at 25⁰ C (77⁰ F)

VOC CONTENT: Not determined. **OTHER:** None

SECTION 10 - STABILITY and REACTIVITY

PRODUCTS EVOLVED WHEN SUBJECTED TO HEAT OR COMBUSTION: Toxic levels of carbon monoxide, carbon dioxide, irritating aldehydes and ketones may be formed on burning. Heating in air may produce irritating aldehydes, acids, and ketones.

HAZARDOUS POLYMERIZATIONS: DO NOT OCCUR.

SECTION 11 -TOXICOLOGICAL INFORMATION

(Animal Toxicity Data)

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ORAL: LD50 Believed to be >.50-2.00 g/kg (rat), moderately toxic

INHALATION: Not determined

DERMAL: LD50 Believed to be >.50-1.00 g/kg (rabbit) moderately toxic

IRRITATION INDEX, ESTIMATION OF IRRITATION (SPECIES)

SKIN: (Draize) Believed to be >3.00-5.00/8.0 (rabbit) moderately irritating. EYES: (Draize) Believed to be >25.00-50.00/110 (rabbit) moderately irritating SENSITIZATION: Not determined.

SECTION 12 - DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHODS: This product has the RCRA characteristics of ignitability, and, if discarded in its present form, would have the hazardous waste number of D001. Under RCRA, it is the responsibility of the user of the product to determine at the time of disposal, whether the product meets RCRA criteria for hazardous wastes. This is because product uses, transformations, mixtures, processes, etc. may render the classification to nonhazardous or hazardous for reasons other than, or in addition to ignitability.

SECTION 13 - TRANSPORTATION INFORMATION

DOT: PROPER SHIPPING NAME: Flammable liquids, toxic, N. O. S.(xylene, alkoxyated nonyl phenol resin)

HAZARD CLASS: 3(6.1) IDENTIFICATION NUMBER: UN 1992 PACKING GROUP: III

LABEL REQUIRED: Flammable liquid(toxic)

Depending on container size, spills of this product may require reporting under SARA 304 and/ or CERCLA 102(A) regulations. Please refer to sections 2 and 14 of this MSDS for composition and component RQ data.

IMDG: PROPER SHIPPING NAME: Flammable liquids, toxic, N. O. S.(xylene, alkoxyated nonyl phenol resin)

HAZARD CLASS: 3(6.1) IDENTIFICATION NUMBER: UN 1992 PACKING GROUP: III

LABEL REQUIRED: Flammable liquid(toxic)

ICAO: PROPER SHIPPING NAME: Flammable liquids, toxic, N. O. S.(xylene, alkoxyated nonyl phenol resin)

HAZARD CLASS: 3(6.1) IDENTIFICATION NUMBER: UN 1992 PACKING GROUP: III

LABEL REQUIRED: Flammable liquid(toxic)

TDG: PROPER SHIPPING NAME: Flammable liquids, N. O. S.(xylenes) HAZARD CLASS: 3(6.1) IDENTIFICATION NUMBER: UN 1993 LABEL REQUIRED: Flammable liquid

SECTION 14 - REGULATORY INFORMATION

FEDERAL REGULATIONS:

SARA Title III: Section 302/304 Extremely Hazardous Substances; CHEMICAL NAME: None

Section 311 Hazardous Categorization: Acute X Chronic X Fire X Pressure Reactive N/A

Section 313 Toxic Chemical, Chemical Name: Xylenes; CAS 1330-20-7 Concentration: 5.00-19.99%

CERCLA 102 (a)/DOT Hazardous Substances: Xylene; CAS 1330-20-7 Range: 5.00-19.99%

States Right-to-Know Regulations: Chemical Name: Xylenes State Right-to-Know

State list: CT, FL, IL, MI, LA, MA, NJ, PA, RI

California Prop. 65: The following detectable components of this product are substances, or belonging to classes of substances, known to the State of California to cause cancer and/or toxicity. None

INTERNATIONAL REGULATIONS:

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TSCA INVENTORY STATUS: This product, or its components, are listed on, or are exempt from the Toxic Substance Control Act (TSCA) Chemical Substance Inventory.

WHMIS INVENTORY STATUS: Class B, Div 2: Flammable liquid. Class D, Div 2, Subdiv B: Material causing other toxic effects.

CANADIAN INVENTORY STATUS: This product, or its components, are listed on or are exempt from the Canadian Domestic Substance List (DSL).

EINECS INVENTORY STATUS: Not determined

AUSTRALIAN INVENTORY STATUS: Not determined

JAPAN INVENTORY STATUS: Not determined

ENVIRONMENTAL INFORMATION:

AQUATIC TOXICITY: Not determined. MOBILITY: Not determined. PERSISTENCE AND BIODEGRADABILITY: Not determined. POTENTIAL TO BIOACCUMULATE: Not determined.

SECTION 16 - OTHER INFORMATION

The information in this data sheet is provided independently of any sale of the product. It is provided for the purpose of hazard communication as part of Tramfloc's product safety program. It is intended only as a guide to the appropriate precautionary handling of the product by a properly trained person. You are encouraged and requested to advise those who may come in contact with such products of the information contained herein. The data relates only to the specific product designated, and does not relate to use of the product in combination with any other material or use of the product in any process. The data is not intended to constitute performance information concerning the product. No express warranty, or implied warranty or merchantability for fitness for a particular purpose is made with respect to the product, its composition, its safety or the information in this data sheet.

To determine the applicability or the effects of law or regulation with respect to the product, the user should consult a legal advisor or the appropriate government agency. Tramfloc, Inc. does not undertake to furnish advice on such matters. No person or organization except a duly authorized Tramfloc, Inc. employee is authorized to provide or make available data sheets for Tramfloc, Inc. Data sheets from unauthorized sources may contain information that is no longer current or accurate. No part of this data sheet may be reproduced or transmitted, in any form, or by any means, without permission in writing from Tramfloc, Inc.