

MATERIAL SAFETY DATA SHEET

SECTION 1 - CHEMICAL PRODUCT and COMPANY IDENTIFICATION

PRODUCT NAMES: TRAMFLOC® 760-9, 785-93

DATE ISSUED: 06/01/03

SUPERSEDES: 05/07/99

DESCRIPTION: Nonylphenol ethoxylate

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	Weight range glycol ethers
CAS-GES	Glycol Ethers	1-38%

This product is not considered hazardous according to OSHA 1910.1200.

SECTION 3 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW - May cause irritation to the eyes, skin, and respiratory system.

POTENTIAL HEALTH EFFECTS

EFFECTS OF OVEREXPOSURE - EYES: This product may cause irritation to the eyes as seen as local redness and possible swelling.

EFFECTS OF OVEREXPOSURE - SKIN: Prolonged and/or repeated skin contact with this product may cause irritation/dermatitis.

EFFECTS OF OVEREXPOSURE - INHALATION: Inhalation of vapors or mists of the product may be irritating to the respiratory system.

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. Get medical attention if skin irritation develops Wash effected area with soap and water for at least 15 minutes or until all traces of material are removed.

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

INGESTION: If the material is swallowed, get immediate medical attention or advice.

SECTION 5 - FIRE-FIGHTING MEASURES

FLASHPOINT: 201⁰ F 94 (201)

EXTINGUISHING MEDIA: Dry chemical, foam, carbon dioxide, water fog.

FIRE FIGHTING EQUIPMENT/INSTRUCTIONS: Firefighters should wear full protective clothing including self-contained breathing apparatus.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

PROCEDURES IN CASE OF ACCIDENTAL RELEASE, BREAKAGE OR LEAKAGE: Absorb spill with inert material. Shovel material into appropriate container for disposal. Flush the area with water to remove trace residual. Do not allow the spilled product to enter public drainage system or open water courses. Ventilate the contaminated area. Surfaces may become slippery after spillage.

SECTION 7 - HANDLING AND STORAGE

HANDLING: Eye wash and safety shower should be available near by when this product is handled or used. Wash thoroughly.

STORAGE: Avoid freezing or excessive heat. Do not handle or store near an open flame, heat or other source of ignition.

SECTION 8 - EXPOSURE CONTROLS/ PERSONAL PROTECTION

ENGINEERING CONTROLS: Use general ventilation. Local exhaust is suggested for use, where possible, in enclosed or confined spaces.

EYE/FACE PROTECTION: Avoid eye contact. Chemical type goggles, or face shield should be worn. Do not wear contact lenses. Eye wash fountain and emergency showers are recommended.

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: 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.

SECTION 9 - PHYSICAL and CHEMICAL PROPERTIES

BOILING POINT: 204⁰ C PERCENT VOLATILE: NIL VAPOR PRESSURE: Not determined or

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unknown. VAPOR DENSITY: Estimated heavier than air. EVAPORATION RATE: Estimated slower than ethyl ether. Ph VALUE: 7 - 8.5 @ 10% Aqueous FREEZING POINT: -7⁰ C lbs/GAL: 8.9 LBS

SECTION 10 - STABILITY and REACTIVITY

CHEMICAL STABILITY: Stable under normal conditions. INCOMPATIBILITY: This product may react with strong oxidizing agents. HAZARDOUS DECOMPOSITION: None known. HAZARDOUS POLYMERIZATIONS: DO NOT OCCUR.

SECTION 11 - TOXICOLOGICAL INFORMATION

CARCINOGENICITY: No carcinogenicity data available for this product.

OTHER TOXICOLOGICAL INFORMATION: This product may contain trace amounts of ethylene oxide (ETO) which accumulate in the head space of storage and transport vessels. Repeated or prolonged airborne exposures to ETO may be harmful since ETO is a cancer hazard and a reproductive hazard.

SECTION 12 - DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHODS: 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. This substance, when discarded or disposed, is not specifically listed as a "hazardous waste" in the Federal regulations; however, it could be characteristically hazardous if it is considered toxic, corrosive, ignitable, or reactive according to Federal definitions (40 CFR 261). Additionally, it could be designated as hazardous according to state regulations. This substance could also become a hazardous waste if it is mixed with or comes in contact with a hazardous waste. Check 40 CFR 261 to determine whether it is a hazardous waste. If it is a hazardous waste, regulations at 40 CFR 262, 263, 264, 268 and 270 apply. Chemical additions, processing or otherwise altering this material may make the waste management information presented in this MSDS incomplete, inaccurate, or otherwise inappropriate.

The transportation, storage, treatment and disposal of this waste material must be conducted in compliance with all applicable Federal, State and local regulations.

SECTION 13 - TRANSPORTATION INFORMATION

DOT: PROPER SHIPPING NAME: Refer to bill of lading or container label for DOT or other transportation hazard classification, if any.

SECTION 14 - REGULATORY INFORMATION

Ingredient Name: GLYCOL ETHERS CAS number: CAS-GES Weight Range Glycol Ethers: 38%

Inventories: All components of this product are listed on the following inventories: U.S.A. (TSCA)

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SECTION 14 - REGULATORY INFORMATION

FEDERAL REGULATIONS:

Ingredient Name: GLYCOL ETHERS CAS number: CAS-GES Weight Range Glycol Ethers: 38%

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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.