

MATERIAL SAFETY DATA SHEET

SECTION 1 - PRODUCT IDENTIFICATION AND USE

PRODUCT IDENTIFIER: Final Flush Regular

PRODUCT USE: Liquid Fertilizer

WHMIS CLASSIFICATION: D2-B

MANUFACTURER'S NAME: Grotek Manufacturing Inc.

SUPPLIER'S NAME: Same as manufacturer

STREET ADDRESS: #284, 505-210th Street, Langley, BC V1M 2Y2

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IN CASE OF EMERGENCY: (604)-882-7686

SECTION 2 – HAZARDOUS INGREDIENTS

HAZARDOUS INGREDIENTS	%	CAS #	LD ₅₀ OF INGREDIENT (SPECIFY SPECIES & ROUTE)	LC ₅₀ OF INGREDIENT (SPECIFY SPECIES)
Citric Acid	0-5	77-92-9	Oral Rat 3 000 mg/Kg	NAP

SECTION 3 – PHYSICAL DATA

PHYSICAL STATE: Liquid	ODOUR & APPEARANCE: Yellowish Liquid and Coconut odour			
	ODOUR THRESHOLD (ppm): NAV			
VAPOUR PRESSURE: (mmHg) NAV	VAPOUR DENSITY: (Air=1) NAV	EVAPORATION RATE: NAV	BOILING POINT: (°C) NAV	FREEZING POINT: (°C) NAV
pH: 2.4	SPECIFIC GRAVITY: 1.02 g/cm ³	COEFF. WATER/OIL DIST. NAV		SOLUBILITY: Soluble in water

SECTION 4 - FIRE AND EXPLOSION DATA

FLAMMABILITY: Not flammable

IF YES UNDER WHAT CONDITIONS? Product is not combustible, however, it can contribute to combustion as a fuel source.

MEANS OF EXTINCTION: For fires involving this product, water, fog, carbon dioxide, foam or dry chemical may be used

SPECIAL PROCEDURES: Water based product. Treat surrounding fire

FLASHPOINT (°C) AND METHOD: NAV	UPPER FLAMMABLE LIMIT (% BY VOLUME): NAV	LOWER FLAMMABLE LIMIT: (% BY VOLUME): NAV
AUTOIGNITION TEMPERATURE (C): NAV	HAZARDOUS COMBUSTION PRODUCTS: Carbon Oxides	

EXPLOSION DATA » SENSITIVITY TO IMPACT: NAP

SENSITIVITY TO STATIC DISCHARGE: NAP

SECTION 5 – REACTIVITY DATA

CHEMICAL STABILITY: Stable under normal condition of use. Avoid excessive heat

INCOMPATIBILITY: Avoid contact with strong oxidizing agents & bases

CORROSIVE BEHAVIOUR: Corrosive

REACTIVITY AND UNDER WHAT CONDITIONS: NAV

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon Oxides

SECTION 6 – TOXICOLOGICAL PROPERTIES

ROUTE OF ENTRY: SKIN CONTACT: Yes **SKIN ABSORPTION:** No **EYE CONTACT:** Yes **INHALATION:** Yes **INGESTION:** Yes

EFFECTS OF ACUTE EXPOSURE TO PRODUCT:

Ingestion – corrosive may cause burning or pain in mouth, throat, abdomen. Vomiting, diarrhea, nausea, perforation of the esophagus and stomach lining may occur.

Inhalation – Aerosol and mist may be irritating to nose, mouth & throat, and stomach.

Eye contact – Irritation, scarring, glaucoma. **Skin contact** – Corrosive, contact may cause irritating, reddening, swelling rash, burns.

EFFECTS OF CHRONIC EXPOSURE: irritation of skin, respiratory tract, and stomach.

EXPOSURE LIMITS: NAV

SYNERGISTIC PRODUCTS: NAV	IRRITANCY: Eye	SENSITIZATION: Skin	CARCINOGENICITY: NAV
TERATOGENICITY: NAV	REPRODUCTIVE HAZARD: NAV	MUTAGENICITY: : NAV	

SECTION 7 – PREVENTIVE MEASURES

PERSONAL PROTECTIVE EQUIPMENT: **Hands:** wear rubber (latex, butyl, etc) or plastic gloves (PVC, etc), **Respirator:** wear- NIOSH approved aerosol & dust filter cartridge to remove aerosol /mist during product application, **Eye** – wear goggles **Footwear** – Impervious safety boots. **Clothing** – Wear coveralls with an impervious apron to protect street clothing.

ENGINEERING CONTROLS: General mechanical ventilation is adequate, avoid splashing.

LEAK AND SPILL PROCEDURE: Isolate hazard area. Ventilate area of spill or leak. Remove all sources of ignition. Wear appropriate personal protective equipment. Keep unnecessary and unprotected personnel from entering. Contain and recover spilled material where possible into containers for later disposal.

WASTE DISPOSAL: May be deposited in a chemical dump. Disposal in accordance Federal, Provincial & Municipal waste regulations.

HANDLING PROCEDURES AND EQUIPMENT: Do not handle unless safety precaution have been read and understood, avoid eye and skin contact. Avoid inhalation of mist or aerosol. Do not puncture, drag or slide container.

STORAGE REQUIREMENTS: Store in cool, dry area and well ventilated area. Separate from combustibles, organic or other readily oxidizable materials, including acids, alkalis, reducing agents. Keep container closed.

SPECIAL SHIPPING INFORMATION: TDG regulation – not regulated for transport in Canada.

SECTION 8 – FIRST AID MEASURES

INHALATION: Move victim to fresh air. Give artificial respiration ONLY if breathing has stopped. Assist breathing with oxygen. Obtain medical assistance immediately.

EYE CONTACT: Flush eyes thoroughly while holding both upper and lower eye lids for a minimum of 15 minutes. Obtain medical attention.

SKIN CONTACT: Remove contaminated clothing. Wash affected area with water for a minimum of 15 minutes. Obtain medical attention if irritation or redness persists.

INGESTION: Do not attempt to give anything by mouth to unconscious victim. If victim is alert and not convulsing, rinse mouth and give water to dilute material. Do not induce vomiting without physician’s direction. If vomiting occurs, have victim lean forward with head down to avoid breathing in vomit, rinse mouth. Obtain medical attention immediately.

SECTION 9 – PREPARATION DATE OF MSDS

PREPARED BY: Grotek Manufacturing Inc. DATE: December 01, 2005	BUS NUMBER: 604-882-7686	ADDITIONAL INFORMATION: At the time of preparation, the information and data contained in this MSDS are believed to be accurate and have been compiled from sources that are believed to be reliable
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