

MATERIAL SAFETY DATA SHEET



FREMONT INDUSTRIES, INC.

4400 Valley Industrial Blvd. N.

P.O. Box 67

Shakopee, MN 55379-1859

PHONE: (952) 445-4121

FAX: (952) 496-3027

EMERGENCY PHONE: (952) 445-4121

CHEMTREC: (800) 424-9300

FREMONT FTR #80

SECTION I GENERAL INFORMATION

NAME ON LABEL (Identity): FTR #80 - Bromocresol Green Methyl Red Indicator Solution

CHEMICAL FAMILY: Solvent

HMIS HAZARD CODES: Health (1) Flammability (4) Reactivity (0)

NFPA HAZARD CODES: Health (1) Flammability (3) Reactivity (0) Special Hazard: NA

HAZARD RATING SCALE: 4 = Severe 3 = Serious 2 = Moderate 1 = Slight 0 = Minimal

SECTION II HAZARDOUS INGREDIENTS

PRINCIPAL HAZARDOUS COMPOUNDS

(CHEMICAL & COMMON NAME(S))

PERCENT

(OPTIONAL)

OSHA

PEL

ACGIH

TLV

CAS #

Isopropanol

85-95

400 ppm

400 ppm

(500 ppm STEL)

67-63-0

NA = Not Applicable NE = Not Established

SECTION III PHYSICAL DATA

BOILING POINT (°F): 174

SPECIFIC GRAVITY (H₂O = 1): 0.82 g/cc

VAPOR PRESSURE (mm Hg): UK

EVAPORATION RATE (Water = 1): 5.68

SOLUBILITY IN WATER: Complete

MELTING POINT (°F): -89

VAPOR DENSITY (Air = 1): UK

APPEARANCE AND ODOR: Dark blue/green colored liquid with a fruity, alcohol odor.

SECTION IV FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method Used): 61°F, 16°C (TCC)

FLAMMABLE LIMITS: LEL: NE UEL: NE

EXTINGUISHING MEDIA: Carbon dioxide, dry chemical, alcohol foam.

AUTO-IGNITION TEMPERATURE: UK

SPECIAL FIRE FIGHTING PROCEDURES: Firefighters should wear self-contained breathing apparatus in the positive-pressure mode when there is a possibility of exposure to smoke, fumes or hazardous decomposition products.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Dangerous when exposed to heat, flame, or oxidizers. Highly flammable.

SECTION V REACTIVITY DATA

STABILITY: Unstable Stable

CONDITIONS TO AVOID: Strong oxidizers.

INCOMPATIBILITY (Materials to Avoid): Heat, sparks, open flames, strong oxidizers.

HAZARDOUS POLYMERIZATION: Will Not Occur May Occur

CONDITIONS TO AVOID: None

HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of carbon.

SECTION VI HEALTH HAZARD DATA

ROUTE(S) OF ENTRY: Contact with skin and eyes, inhalation, ingestion.

HEALTH HAZARDS: Acute - Dizziness, nausea, headaches, vomiting, visual impairment.

Chronic - Poisonous if ingested. Dizziness, nausea, headaches, vomiting, visual impairment, unconsciousness.

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SECTION VI HEALTH HAZARD DATA (continued)

CHEMICAL LISTED AS CARCINOGEN OR POTENTIAL CARCINOGEN: Yes ___ No X

NATIONAL TOXICOLOGY PROGRAM: Yes ___ No X

I.A.R.C. MONOGRAPHS: Yes ___ No X OSHA: Yes ___ No X

SIGNS AND SYMPTOMS OF EXPOSURE: Dizziness, nausea, vomiting, visual impairment, unconsciousness

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: Dizziness, headaches, nausea, vomiting, visual impairment

EMERGENCY AND FIRST AID PROCEDURES:

EYES: Flush immediately with water for 15 minutes. Contact physician.

SKIN: Flush immediately with water for 15 minutes. Contact physician for persistent irritation.

INHALATION: Remove to fresh air. Contact a physician for any persistent symptoms of irritation.

INGESTION: DO NOT induce vomiting. Give large amounts of water and 1 or more ounces of milk of magnesia. Contact physician immediately.

SECTION VII PRECAUTIONS FOR SAFE HANDLING AND USE

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Wear all protective equipment. Absorb on an inert material (i.e., vermiculite). Flush remainder to drain with excess water.

WASTE DISPOSAL METHOD: Dispose of in accordance with local, state, and federal regulations.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Wear all protective equipment. Wash thoroughly after handling, avoid contacting skin, eyes, and clothing. Use with adequate ventilation.

OTHER PRECAUTIONS: Do not inhale. Do not ingest - poisonous. Keep container away from head, sparks, or open flame. Keep container closed when not in use.

SECTION VIII SPECIAL PROTECTION INFORMATION AND CONTROL MEASURES

RESPIRATORY PROTECTION (Specify Type): Not needed for intended uses.

VENTILATION: LOCAL EXHAUST: NA
MECHANICAL (General): X SPECIAL: NA OTHER: NA

PROTECTIVE GLOVES: Rubber

EYE PROTECTION: Safety glasses and/or splash-proof goggles.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Full cover clothing including long sleeves, eye wash in immediate vicinity.

WORK/HYGIENIC PRACTICES: Wear all protective equipment. Do not ingest - poisonous. Store away from food. Wash thoroughly after handling. Keep container closed when not in use.

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SECTION IX REGULATORY INFORMATION

CERCLA 40 CFR 302.4: NA

SARA TITLE III:

Section 302/304: NA

Section 311/312 Hazard Category: Acute Health Hazard, Fire Hazard

Section 313: NA

Bruce Busch, (Chemist)
Prepared by (Optional)

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