

MATERIAL SAFETY DATA SHEET

FIREFIGHTER ELIMINATOR F

MSDS DATE: 5/01/10

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Firefighter Eliminator F
SYNONYMS: None

MANUFACTURER: The Noble Company
ADDRESS: 7300 Enterprise Dr. Spring Lake, MI 49456

EMERGENCY PHONE: 231-799-8000
OTHER CALLS: 231-799-8000
FAX PHONE: 231-799-8850

CHEMICAL NAME: 1,2 - Propanediol
CHEMICAL FAMILY: Glycols

PRODUCT USE: Fire suppression systems

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

<u>INGREDIENT:</u>	<u>CAS NO.</u>	<u>% WT</u>	<u>SARA 313 REPORTABLE</u>
PROPLYENE GLYCOL	57-55-6	<75%	NO
DIPOTASSIUM PHOSPHATE	7758-11-4	<10%	NO

SECTION 3: HAZARDS IDENTIFICATION

POTENTIAL HEALTH EFFECTS

EYES: May cause minor, temporary eye irritation.

SKIN: Unlikely to cause irritation.

INGESTION: Considered to be non-hazardous.

INHALATION: Considered to be non-hazardous.

ACUTE HEALTH HAZARDS: Not expected to present a significant acute health hazard upon short-term exposure.

CHRONIC HEALTH HAZARDS: No adverse chronic health effects are expected from anticipated conditions of normal use of this material, unless aerosol is generated.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: This material may aggravate pre-existing eye disease.

CARCINOGENICITY: No applicable information found.

SECTION 4: FIRST AID MEASURES

EYES: Immediately flush thoroughly for 15 minutes with running water. If irritation persists, obtain medical attention.

SKIN: Remove contaminated clothing. Wash affected area with soap and water.

INGESTION: Give water to drink. Do not induce vomiting. Consult medical personnel.

INHALATION: Remove to fresh air. Consult medical personnel if symptoms persist.

NOTES TO PHYSICIANS OR FIRST AID PROVIDERS: Treat symptomatically. Treatment of overexposure should be directed at the control of symptoms and the clinical condition of the patient. After adequate first aid, no further treatment is required unless symptoms reappear.

SECTION 5: FIRE-FIGHTING MEASURES

FLAMMABLE LIMITS IN AIR,(% BY VOLUME) **UPPER:** 2.4 **LOWER:** 17.4

FLASH POINT: 228° F (PMCC) **AUTOIGNITION TEMPERATURE:** 700°

NFPA HAZARD CLASSIFICATION
HEALTH: 0 **FLAMMABILITY:** 1 **REACTIVITY:** 0 **OTHER:** None

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HMIS HAZARD CLASSIFICATION

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HEALTH: 0

FLAMMABILITY: 1

REACTIVITY: 0

EXTINGUISHING MEDIA: Water, foam, CO₂, dry chemical.

SPECIAL FIRE FIGHTING PROCEDURES: None

UNUSUAL FIRE HAZARDS: The product may become combustible after prolonged heating at the boiling point.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon Dioxide and carbon monoxide may form when heated to decomposition.

SECTION 6: ACCIDENTAL RELEASE MEASURES

SPILL/LEAK PROCEDURES: If feasible and without risk, clean-up personnel should stop leak.

SMALL SPILL: Absorb with inert material e.g. sawdust, sand or earth and transfer to container for disposal.

LARGE SPILL: Dike to prevent migration of material. Do not release into waterways or sewers. Follow applicable federal/state regulations.

SECTION 7: HANDLING AND STORAGE

STORAGE REQUIREMENTS: Keep container closed when not in use. Avoid storing near strong oxidizers. Store in clean, dry locations away from excessive heat.

HANDLING PRECAUTIONS: Wash thoroughly after handling. Do not get into eyes, on skin, or on clothing.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: Eye wash station.

VENTILATION : General ventilation. Material non-volatile.

RESPIRATORY PROTECTION: None required except in emergency situations.

EYE PROTECTION: Chemical splash goggles with indirect or no ventilation.

SKIN PROTECTION: Not normally considered a skin hazard. Where use can result in skin contact, practice good personal hygiene. Wash hands and other exposed areas with mild soap and water before eating, drinking, smoking, and when leaving work.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: None

WORK HYGIENIC PRACTICES: Never eat, drink, or smoke in work areas.

EXPOSURE GUIDELINES: None established for product.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: To be determined.

ODOR: Little or none.

pH AS SUPPLIED: 9

BOILING POINT: 222° F @ 760mmHg

DRY POINT: 374° F

FREEZING POINT: -26° F

VAPOR PRESSURE (psia): 1.1 @ 110° F

SPECIFIC GRAVITY (H₂O = 1): 1.043 @ 70° F

SOLUBILITY IN WATER: Complete in all proportions.

PERCENT VOLATILE: Slight

VAPOR SPECIFIC GRAVITY (AIR = 1.0): 2.6 @ 60-90° F

VISCOSITY: 5.04 CPS @ 80° F

SECTION 10: STABILITY AND REACTIVITY

STABILITY: Stable

CONDITIONS TO AVOID (Stability): High temperatures.

INCOMPATIBILITY/MATERIAL TO AVOID: Strong oxidizing agents.

DECOMPOSITION OR BY-PRODUCTS: Carbon dioxide and carbon monoxide may form when heated to decomposition.

HAZARDOUS POLYMERIZATION: Not expected to occur.

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SECTION 11: TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION: High concentrations of Propylene Glycol in water when held in contact with human skin under closed conditions have been reported to cause skin irritation (Cosmetics and Toiletries 99:83-91, 1984). The authors attribute the observations to a sweat retention reaction by skin. No reactions were observed in open patch tests with human subjects. One literature report indicates rare eczematous skin reactions and even more rarely an allergic skin reaction from exposure to Propylene Glycol (Anderson and Starr, Hautzart 33 (1) 1982)

SECTION 12: ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: Fully biodegradable.

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Controlled incineration or landfill in accordance with local, state or federal regulations.

SECTION 14: TRANSPORT INFORMATION

SECTION 14 NOTES: Not restricted under any transport regulations.

SECTION 15: REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS:

TSCA (TOXIC SUBSTANCE CONTROL ACT): The following is the TSCA Chemical Substance Inventory Status of the components:

PROPLYENE GLYCOL	57-55-6	Listed – Non confidential
DIPOTASSIUM PHOSPHATE	7758-11-4	Listed – Non confidential

CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT):

No chemicals in this material with known CAS numbers are subject to the reporting requirements of CERCLA.

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT):

311/312 HAZARD CATEGORIES:

Based upon available information, this material and/or components are not classified as any of the specific health and/or physical hazards defined by Section 311 & 312.

313 REPORTABLE INGREDIENTS:

The material does not contain any chemical components with known CAS numbers that exceed the De Minimis reporting levels established by SARA Title III, Section 313 and 40 CFR 372.

STATE REGULATIONS:

Massachusetts Right to Know Substance List (MSL) [105 CMR 670.000]

Extraordinarily Hazardous Substances (MSL-EHS) must be identified when present in materials at levels greater than state specified criterion. The criterion is $\geq 0.0001\%$. Hazardous Substances (MSL-HS) on the MSL must be identified when present in materials at greater than the state specified criterion. The criterion is $\geq 1\%$. Components with CAS numbers present in this material, at levels specified in Section 2 – Composition, do not require reporting under the statute.

Pennsylvania Right to Know Hazardous Substance List

Hazardous Substances (PA-HS) must be identified when present in materials at levels greater than the state specified criterion. The criterion is $\geq 1\%$. Components with CAS numbers in this material at a level which could require reporting under the statute are:

Propylene Glycol	57-55-6
Dipotassium Phosphate	7758-11-4

Special Hazardous Substances (PA-SHS) must be identified when present in materials at levels greater than the state specified criterion. The criterion is $\geq 0.01\%$. Environmental Hazards (PA-EH) must be identified when present in material at levels greater than the state specified criterion. The criterion is $\geq 0.01\%$. Components with CAS numbers in this material, at levels specified in Section 2 – Composition, do not require reporting under the statute.

SECTION 16: OTHER INFORMATION

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