

MATERIAL SAFETY DATA SHEET

Required under USDL Safety and Health Regulations for Ship Repairing,
Shipbuilding, and Shipbreaking (29 CFR 1915, 1916, 1917)

8441, 8443

SECTION I CRO-8422, 8424, 8442, 8444

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|--|---|
| MANUFACTURER'S NAME A. T. CROSS Company | EMERGENCY TELEPHONE NO. (401) 333-1200 |
| ADDRESS (Number, Street, City, State, and ZIP Code) 1 Albion Road, Lincoln, RI 02865 | |
| CHEMICAL NAME AND SYNONYMS | TRADE NAME AND SYNONYMS SP Refill F, EF and M |
| CHEMICAL FAMILY Water/Glycol (Solvents) | FORMULA |

SECTION II - HAZARDOUS INGREDIENTS

| PAINTS, PRESERVATIVES, & SOLVENTS | % | TLV (Units) | ALLOYS AND METALLIC COATINGS | % | TLV (Units) |
|--|----|-------------|--|---|-------------|
| PIGMENTS | | | BASE METAL | | |
| CATALYST | | | ALLOYS | | |
| VEHICLE | 20 | 50 | METALLIC COATINGS | | |
| SOLVENTS Ethylene/Glycol, Cas # | | | FILLER METAL PLUS COATING OR CORE FLUX | | |
| ADDITIVES 107-21-1 | | | OTHERS | | |
| OTHERS | | | | | |
| HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES | | | | % | TLV (Units) |
| | | | | | |
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SECTION III - PHYSICAL DATA

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| BOILING POINT (°F.) Initial | 212°F | SPECIFIC GRAVITY (H ₂ O=1) | 1.91-1.07 |
| VAPOR PRESSURE (mm Hg.) of Water | 17.5 | PERCENT VOLATILE BY VOLUME (%) | 93% |
| VAPOR DENSITY (AIR=1) Heavier than Air | | EVAPORATION RATE (_____ =1) | 1 |
| SOLUBILITY IN WATER | 100% | | |
| APPEARANCE AND ODOR Black, Blue, Red or Green - Mild odor | | | |

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

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|---|------------------|-----|-----|
| FLASH POINT (Method used) Greater than 240°F | FLAMMABLE LIMITS | Lel | Uel |
| EXTINGUISHING MEDIA Not flammable under ordinary conditions | | | |
| SPECIAL FIRE FIGHTING PROCEDURES | | | |
| UNUSUAL FIRE AND EXPLOSION HAZARDS | | | |

SECTION V - HEALTH HAZARD DATA

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| THRESHOLD LIMIT VALUE | Oral LD50 greater than 2.5 g/kg (Rats) |
| EFFECTS OF OVEREXPOSURE | Stains skin. |
| EMERGENCY AND FIRST AID PROCEDURES | |
| Flush eyes thoroughly with water. Wash contaminated areas of body with soap & water. | |
| Ingestion: Induce vomiting and call a doctor. Inhalation: Remove victim to uncontaminated atmosphere & apply artificial respiration if breathing has stopped. | |

SECTION VI - REACTIVITY DATA

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|--------------------------------------|----------------|---|---------------------|
| STABILITY | UNSTABLE | | CONDITIONS TO AVOID |
| | STABLE | X | |
| INCOMPATIBILITY (Materials to avoid) | | | |
| HAZARDOUS DECOMPOSITION PRODUCTS | | | |
| HAZARDOUS POLYMERIZATION | MAY OCCUR | | CONDITIONS TO AVOID |
| | WILL NOT OCCUR | X | |

SECTION VII - SPILL OR LEAK PROCEDURES

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| STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED | Soak up on paper or other absorbent and flush area with water. |
| WASTE DISPOSAL METHOD | Remove to disposal site approved for liquid waste. |

SECTION VIII - SPECIAL PROTECTION INFORMATION

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| RESPIRATORY PROTECTION (Specify type) | | |
| Necessary only if ventilation is inadequate. Cannister type is best. | | |
| VENTILATION | LOCAL EXHAUST | As needed. |
| | MECHANICAL (General) | Acceptable |
| PROTECTIVE GLOVES | | EYE PROTECTION |
| OTHER PROTECTIVE EQUIPMENT | | |

SECTION IX - SPECIAL PRECAUTIONS

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| PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING | Store in cool place. |
| OTHER PRECAUTIONS | Do not burn. |