Blueprint (Cyanotype) (2 parts)

ROCKLAND COLLOID LLC-- BLUEPRINT, BLACK BOTTLES (A&B)

MATERIAL SAFETY DATA SHEET

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General Information

Item Name: BLUEPRINT KIT
Company's Name: ROCKLAND COLLOID LLC
Company's Street: PO Box 3120
Company's City: Oregon City
Company's State: OR
Company's Country: US
Company's Zip Code: 97045
Company's Emergency Phone #: 914-413-3000
Date MSDS Prepared: 01JAN96
Safety Data Review Date: 9/09/12
Unit of Issue: 250 CC'S x 2
Type of Container: PLASTIC BOTTLE
MSDS Serial Number: BTKPT
Specification Number: O-C-265
Spec Type, Grade, Class: NONE
Hazard Characteristic Code: N1
Unit of Issue: BT
Type of Container: PLASTIC BOTTLE

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Ingredients/Identity Information

Item Name: POTASSIUM FERRICYANIDE SOLUTION (PART A)
Proprietary: NO
Ingredient: POTASSIUM FERRICYANIDE
Ingredient Sequence Number: 01
Percent: 100
NIOSH (RTECS) Number: LJ8225000
CAS Number: 13746-66-2
OSHA PEL: NOT ESTABLISHED
ACGIH TLV: NOT ESTABLISHED
Other Recommended Limit: NONE SPECIFIED

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Physical/Chemical Characteristics

Appearance And Odor: CRYSTALS OR POWDER; BRIGHT RED; ODORLESS
Melting Point: DECOMPOSES
Specific Gravity: 1.859
Decomposition Temperature: UNKNOWN
Solubility In Water: APPRECIABLE; 33%
Corrosion Rate (IPY): UNKNOWN

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Fire and Explosion Hazard Data

Flash Point: NONE
Extinguishing Media: DRY CHEMICAL, WATER SPRAY, CARBON DIOXIDE, ALCOHOL FOAM.
Special Fire Fighting Proc: USE A SELF-CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE Equipment. COOL FIRE EXPOSED CONTAINERS WITH WATER FOG.
Unusual Fire and Explosive Hazards: EXPLOSION IS POSSIBLE IF MIXED WITH AMMONIA OR CHROMIC ANHYDRIDE IN THE PRESENCE OF AN IGNITION SOURCE.

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Reactivity Data

Stability: YES
Condition To Avoid (Stability): HEAT, SPARKS, OPEN FLAMES.
Materials To Avoid: ACIDS, AMMONIA, OXIDIZING AGENTS.
Hazardous Decomposition Products: TOXIC FUMES OF CYANIDES.
Hazardous Poly Occur: NO

Health Hazard Data

LD50-LC50 Mixture: ORAL LD50 (RAT) IS 1.6G/KG
Route Of Entry - Inhalation: YES
Route Of Entry - Skin: YES
Route Of Entry - Ingestion: NO
Health Haz Acute And Chronic: INHAL: DUST IS VERY CORROSIVE TO THE ENTIRE RESPIRATORY SYSTEM, POSSIBLY CAUSING LUNG DAMAGE. EYES: DUST MAY CAUSE IRRITATION. SKIN: PROLONGED CONTACT MAY CAUSE IRRITATION. INGEST: MAY CAUSE CYANIDE POISONING.
Carcinogenicity - NTP: NO
Carcinogenicity - IARC: NO
Carcinogenicity - OSHA: NO
Explanation Carcinogenicity: THERE ARE NO INGREDIENTS ABOVE 0.1% WHICH ARE IDENTIFIED AS CARCINOGENS BY NTP, IARC OR OSHA.
Signs/Symptoms Of Overexposure: INGEST: LARGE DOSES MAY CAUSE NAUSEA AND VOMITING. INHAL: DIFFICULT BREATHING, PAIN.
Med Condition Aggravated By Exposure: PERSONS WITH PREEXISTING RESPIRATORY AILMENTS MAY BE AT INCREASED RISK FROM EXPOSURE.
Emergency/First Aid Proc: SKIN: REMOVE CONTAMINATED CLOTHING; WASH WITH SOAP AND WATER. EYES: FLUSH WITH WATER FOR 15 MINUTES. INHAL: REMOVE TO FRESH AIR. GIVE OXYGEN OR ARTIFICIAL RESPIRATION IF NEEDED. INGEST: GET PROMPT QUALIFIED MEDICAL ATTENTION. IF CONSCIOUS, GIVE 2 GLASSES OF WATER; INDUCE VOMITING BY STICKING FINGER DOWN THROAT.

Precautions for Safe Handling and Use

Steps If Material Released/Spill: USE PROPER RESPIRATORY AND PROTECTIVE EQUIPMENT. SWEEP OR SCOOP INTO AN APPROPRIATE LABELED CONTAINER FOR DISPOSAL. KEEP OUT OF SEWER.
Neutralizing Agent: NONE
Waste Disposal Method: DISPOSE OF IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS.
Precautions - Handling/Storage: STORE IN A COOL, DRY, WELL-VENTILATED PLACE. KEEP CONTAINER CLOSED WHEN NOT IN USE. KEEP ITEM AWAY FROM INCOMPATIBLE MATERIALS.
Other Precautions: EMPTY CONTAINERS MAY CONTAIN HAZARDOUS RESIDUE; DISPOSE OF PROPERLY

Control Measures

Respiratory Protection: WHERE ENVIRONMENTAL CONTROLS ARE LACKING OR IN ENCLOSED SPACES USE EITHER A SELF-CONTAINED BREATHING APPARATUS OR NIOSH/MSHA RESPIRATOR FOR ORGANIC DUST/VAPOUR, DEPENDING ON THE CONCENTRATION OF AIRBORN CONTAMINANT.
Ventilation: USE LOCAL EXHAUST (FUME HOOD).
Protective Gloves: RUBBER
Eye Protection: CHEMICAL GOGGLES.
Other Protective Equipment: RUBBER APRON, LONG SLEEVED SHIRT. PROVIDE A LOCAL EYE WASH STATION AND SAFETY SHOWER.
Work Hygienic Practices: USE REASONABLE CARE IN HANDLING THIS PRODUCT. WASH HANDS AFTER USE AND BEFORE EATING.
Suppl. Safety & Health Data: MSDS GENERATED FOR USE WITH DOD 4160.21-H (PAGE IV-37. MSDS SOURCE: MSDS/FTSS( CCINFO, 93-3).

Transportation Data

Trans Data Review Date: 96100
DOT PSN Code: ZZZ
DOT Proper Shipping Name: NOT REGULATED BY THIS MODE OF TRANSPORTATION
IMO PSN Code: ZZZ
IMO Proper Shipping Name: NOT REGULATED FOR THIS MODE OF TRANSPORTATION
IATA PSN Code: ZZZ
IATA Proper Shipping Name: NOT REGULATED BY THIS MODE OF TRANSPORTATION
API PSN Code: ZZZ
API Prop. Shipping Name: NOT REGULATED BY THIS MODE OF TRANSPORTATION
MMAC Code: NR
Additional Trans Data: NONE

Label Data

Label Required: YES
Technical Review Date: 9/09/12
Label Status: G
Common Name: FERRIC AMMONIUM CITRATE, GREEN
Chronic Hazard: NO
Signal Word: CAUTION!
Acute Health Hazard-None: X
Contact Hazard-Slight: X
Fire Hazard-None: X
Reactivity Hazard-None: X
Special Hazard Precautions: ACUTE: SKIN CONTACT: PROLONGED CONTACT MAY CAUSE IRRITATION. CHRONIC: NONE LISTED BY MANUFACTURER.
Protect Eye: Y
Protect Skin: Y
Protect Respiratory: Y
Label Name: BLUEPRINT KIT

Blueprint (Cyanotype) (2/2)
General Information

Item Name: BLUEPRINT KIT
Company's Name: ROCKLAND COLLOID LLC
Company's City: Oregon City
Company's State: OR
Company's Country: US
Company's Zip Code: 97045
Company's Emergency Phone #: 914-413-3000
Date MSDS Prepared: 01JAN96
Safety Data Review Date: 9/09/12
Unit Of Issue: 250 CC'S
Type of Container: PLASTIC BOTTLE

Ingredients/Identity Information

Name: FERRIC AMMONIUM CITRATE SOLUTION (PART B)
Proprietary: NO
Ingredient: CITRIC ACID, AMMONIUM IRON (3+) SALT; (FERRIC AMMONIUM CITRATE) 50% SOLUTION (SARA III)
Ingredient Sequence No.: 01
Percent: 50
NIOSH (RTECS) Number: GE7540000
CAS Number: 1185-57-5
OSHA PEL: 1 MG/M3 (FE)
ACGIH TLV: 1 MG/M3 (FE)
Proprietary: NO
Ingredient: WATER
Ingredient Sequence Number: 02
Percent: 50
NIOSH (RTECS) Number: N/A
Physical/Chemical Characteristics

Appearance and Odor: GREEN LIQUID. ODORLESS.
Boiling Point: N/A
Melting Point: N/A
Vapor Pressure (MM Hg/70 F): N/A
Vapor Density (Air=1): N/A
Specific Gravity: N/A
Evaporation Rate and Ref: NOT APPLICABLE
Solubility In Water: APPRECIABLE (>10%)
Percent Volatiles by Volume: 0
pH: N/A

Fire and Explosion Hazard Data

Flash Point: NOT APPLICABLE
Flash Point Method: CC
Lower Explosive Limit: N/A
Upper Explosive Limit: N/A
Extinguishing Media: USE EXTINGUISHING MEDIA APPROPRIATE FOR SURROUNDING FIRE.
Special Fire Fighting Proc: USE NIOSH/MSHA APPROVED SCBA & FULL PROTECTIVE EQUIPMENT (FP N).
Unusual Fire And Explosive Hazards: NONE IDENTIFIED.

Reactivity Data

Stability: YES
Condition To Avoid (Stability): HEAT, LIGHT.
Materials To Avoid: NONE IDENTIFIED.
Hazardous Decomposition Products: AMMONIA, CARBON MONOXIDE, CARBON DIOXIDE.
Hazardous Poly Occur: NO
Conditions To Avoid (Poly): NOT RELEVANT

Health Hazard Data

LD50-LC50 Mixture: NONE SPECIFIED BY MANUFACTURER.
Route of Entry - Inhalation: NO
Route of Entry - Skin: YES
Route of Entry - Ingestion: NO
Health Hazard Acute And Chronic: ACUTE:SKIN CONTACT:PROLONGED CONTACT MAY NONE IDENTIFIED.
Carcinogenicity - NTP: NO
Carcinogenicity - IARC: NO
Carcinogenicity - OSHA: NO
Explanation Carcinogenicity: NOT RELEVANT
Signs/Symptoms Of Overexposure: SEE HEALTH HAZARDS.
Medical Condition Aggravated By Exp: NONE IDENTIFIED.
Emergency/First Aid Proc: INGEST:IF SWALLOWED & PERSON IS CONSCIOUS, IMMEDIATELY GIVE LARGE AMOUNTS OF WATER. GET MEDICAL ATTENTION. INHAL:IF IMMEDIATELY FLUSH W/PLENTY OF WATER FOR AT LEAST 15 MINUTES.

Precautions for Safe Handling and Use

Steps If Material Released/Spill: WEAR SUITABLE PROTECTIVE CLOTHING. CAREFULLY SWEEP UP & REMOVE.
Neutralizing Agent: NONE SPECIFIED BY MANUFACTURER.
Waste Disposal Method: DISPOSE I/A/W ALL APPLICABLE FEDERAL, STATE & LOCAL ENVIRONMENTAL REGULATIONS.
Precautions-Handling/Storing: KEEP CONTAINER TIGHTLY CLOSED. SUITABLE FOR ANY GENERAL CHEMICAL STORAGE AREA. DURING USE AVOID CONTACT W/EYES, SKIN, CLOTHING. Other Precautions: NONE SPECIFIED BY MANUFACTURER.

Control Measures


Label Data

Label Required: YES
Technical Review Date: 9/09/12
Label Status: G
Common Name: FERRIC AMMONIUM CITRATE, GREEN
Chronic Hazard: NO
Signal Word: CAUTION!
Acute Health Hazard-None: X
Contact Hazard-Slight: X
Fire Hazard-None: X
Reactivity Hazard-None: X
Special Hazard Precautions: ACUTE: SKIN CONTACT: PROLONGED CONTACT MAY CAUSE IRRITATION. CHRONIC: NONE LISTED BY MANUFACTURER.
Protect Eye: Y
Protect Skin: Y
Protect Respiratory: Y
Label Name: BLUEPRINT KIT