

Blueprint (Cyanotype) (2 parts)

ROCKLAND COLLOID LLC-- BLUEPRINT, BLACK BOTTLES (A&B)  
MATERIAL SAFETY DATA SHEET

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General Information  
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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  
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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  
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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  
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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  
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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

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Health Hazard Data  
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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 Overexp: INGEST: LARGE DOSES MAY CAUSE NAUSEA AND VOMITING.INHAL: DIFFICULT BREATHING,PAIN.  
Med Condition Aggravated By Exp: PERSONS WITH PRE-EXISTING 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.

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Precautions for Safe Handling and Use  
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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/Storing: 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

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Control Measures  
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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/VAPOR, 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) .

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Transportation Data  
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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  
AFI PSN Code: ZZZ  
AFI Prop. Shipping Name: NOT REGULATED BY THIS MODE OF TRANSPORTATION  
MMAC Code: NR  
Additional Trans Data: NONE

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Label Data  
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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  
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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

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Ingredients/Identity Information  
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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

CAS Number: N/A

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Physical/Chemical Characteristics

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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

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Fire and Explosion Hazard Data

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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.

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Reactivity Data

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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

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Health Hazard Data

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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.

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Precautions for Safe Handling and Use

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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.

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Control Measures  
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Respiratory Protection: NONE REQUIRED WHERE ADEQUATE VENTILATION CONDITIONS EXIST. IF AIRBORNE CONCENTRATION IS HIGH, USE AN APPROPRIATE NIOSH/MSHA APPROVED RESPIRATOR OR DUST MASK.

Ventilation: USE ADEQUATE GENERAL OR LOCAL EXHAUST VENTILATION TO KEEP FUME OR DUST LEVELS AS LOW AS POSSIBLE.

Protective Gloves: IMPERVIOUS GLOVES (FP N).

Eye Protection: ANSI APPROVED CHEM WORKERS GOGGS (FP N).

Other Protective Equipment: LAB COAT.

Work Hygienic Practices: WASH THOROUGHLY AFTER HANDLING.

Suppl. Safety & Health Data: NONE SPECIFIED BY MANUFACTURER.

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Label Data  
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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