

Blueprint (Cyanotype) (2 parts)

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

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 #: 503-655-4152
Date MSDS Prepared: 01JAN96
Safety Data Review Date: 9/09/20
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

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

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

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.

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

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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: 9/09/20
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 #: 503-655-4152
Date MSDS Prepared: 01JAN96
Safety Data Review Date: 9/09/20
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

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

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.

Label Data

Label Required: YES

Technical Review Date: 9/09/20

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