

ROCKLAND COLLOID LLC
POLYTONER, PART 1 (BLACK BAG)
MATERIAL SAFETY DATA SHEET
Trade Name: POLYTONER (PART 1 OF 3)

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General Information
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Company's Name: ROCKLAND COLLOID LLC
Company's P.O. Box 3120
Company's Town: Oregon City
Company's State: OR
Company's Zip Code: 97045
Company's Country: U.S.A.
Company's Emergency Phone #: 914 413-3000
Date MSDS Prepared: 01JAN96
Safety Data Review Date: 1/3/13
Unit Of Issue Container Qty: 1.5 OZ
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Ingredients/Identity Information
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Proprietary: NO
Ingredient: SODIUM SULFITE (90-98%)
Ingredient Sequence Number: 01
Percent: 30
NIOSH (RTECS) Number: WE2150000
CAS Number: 7757-83-7
Proprietary: NO
Ingredient: SODIUM BISULFITE
Ingredient Sequence Number: 02
Percent: 20
CAS Number: 7631-90-5
NIOSH (RTECS) Number: 1000314NH
Other Recommended Limit: NONE SPECIFIED
Proprietary: NO
Ingredient: ACETIC ACID, (ETHYLENEDINITRILO)TETRA-, DISODIUM SALT
(ETHYLENE
DIAMINETETRA ACETIC ACID (DISODIUM SALT))
Ingredient Sequence Number: 03
Percent: 10
NIOSH (RTECS) Number: AH4375000
CAS Number: 139-33-3
OSHA PEL: NOT APPLICABLE
ACGIH TLV: NOT APPLICABLE
Proprietary: NO
Ingredient: DIETHYL-P-PHENYLENEDIAMINE HYDROCHLORIDE
Ingredient Sequence Number: 04
Percent: 40
NIOSH (RTECS) Number: N/A
CAS Number: 2198-58-5
OSHA PEL: NOT APPLICABLE
ACGIH TLV: NOT APPLICABLE
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Physical/Chemical Characteristics
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Appearance And Odor: TAN ODORLESS POWDER
Vapor Pressure (MM Hg/70 F): NEG
Specific Gravity: SOLID
Solubility In Water: COMPLETE
Percent Volatiles By Volume: NEGL

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Fire and Explosion Hazard Data

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Flash Point: NON COMBUSTIBLE
Lower Explosive Limit: NONE
Upper Explosive Limit: NONE
Extinguishing Media: USE THE MEDIA SUGGESTED TO EXTINGUISH THE SOURCE OF THE FIRE
Special Fire Fighting Proc: NONE
Unusual Fire And Explosive Hazards: NONE

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Reactivity Data

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Stability: YES
Materials to Avoid: STRONG OXIDIZERS
Hazardous Decomposition Products: CO2 & CO
Hazardous Poly Occur: NO

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Health Hazard Data

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Signs/Symptoms Of Overexposure: CONTACT W/POWDER MAY CAUSE EYE & SKIN OR ALLERGIC REACTION & UPPER RESPIRATORY TRACT IRRITATION.
Emergency/First Aid Proc: EYES: FLUSH W/WATER FOR AT LEAST 15 MINS & GET MED ATT. SKIN: FLUSH W/PLENTY OF WATER. IF SKIN IRRITATION DEVELOPS, GET MED ATT. INGESTION: SEEK IMMEDIATE MEDICAL ADVICE GIVING FULL DETAILS OF AMT SWALLOWED/TOXICITY. INHALATION: REMOVE TO FRESH AIR

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Precautions for Safe Handling and Use

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Steps If Material Released/Spill: WEAR PROTECTIVE CLOTHING. SMALL SPILLS - IF FEDERAL, STATE & LOCAL REGULATIONS PERMIFLUSH TO SEWER W/LARGE AMTS OF WATER. LARGE SPILLS - SWEEP UP & PLACE INN APPROVED D.O.T. CONTAINER, LABEL & SEAL FOR DISPOSAL.
Waste Disposal Method: IF FEDERAL, STATE & LOCAL REGULATIONS PERMIT, FLUSHTO SEWER W/LARGE AMTS OF WATER. OTHERWISE DISPOSE OF CONTAMINATED PRODUCT & MATERIALS USED IN CLEANING UP SPILLS IN A MANNER APPROVED FOR THIS MATERIAL.
Precautions-Handling/Storing: KEEP TIGHTLY SEALED. DON'T STORE OR CONSUME FOOD, DRINK OR TOBACCO IN AREA WHERE THEY MAY BECO CONTAMINATED WITH THIS MATERIAL. STORE >40F.
Other Precautions: AVOID UNNECESSARY PERSONAL CONTACT. AVOID INCOMPATIBLE SUBSTANCES. WASH THOROUGHLY AFTER HANDLING.

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Control Measures

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Respiratory Protection: DUST RESPIRTAOR IF NEEDED
Ventilation: GOOD GENERAL VENTILATION
Protective Gloves: IMPERVIOUS
Eye Protection: SAFETY GLASSES/GOGGLES
Other Protective Equipment: NONE SHOULD BE NEEDED BUT GOOD HYGIENE SHOULD BE FOLLOWED.
Suppl. Safety & Health Data: MSDS DATE: 3/20/96

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Disposal Data

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Disposal Data Action Code: A
Disposal Data Review Date: 90100
Rec # For This Disposal Entry: 02
Tot Disposal Entries Per NSN: 003

Landfill Ban Item: YES
Disposal Supplemental Data: MSDS DATE: 3/20/96 IN CASE OF ACCIDENTAL
EXPOSURE OR DISCHARGE, CONSULT HEALTH AND SAFETY FILE FOR PRECAUTIONS.
1st EPA Hazard Waste Name New: NOT REGULATED
1st EPA Hazard Waste Char New: NOT REGULATED BY RCRA
1st EPA Acute Hazard New: NO

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Label Data

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Label Required: YES
Label Status: G
Common Name: POLYTONER DEVELOPER, PART 1
Special Hazard Precautions: CONTACT W/POWDER MAY CAUSE EYE & SKIN OR
ALLERGIC REACTION & UPPER RESPIRATORY TRACT IRRITATION.
Label Name: ROCKLAND COLLOID LLC
Label Emergency Number: 914-413-3000

POLYTONER, PART 2 (CLEAR BAG)
MATERIAL SAFETY DATA SHEET
Trade Name: POLYTONER (PART 2 OF 3)

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General Information

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Company's Name: ROCKLAND COLLOID LLC
Company's P.O. Box 3120
Company's Town: Oregon City
Company's State: OR
Company's Zip Code: 97045
Company's Country: U.S.A.
Company's Emergency Phone #: 914 413-3000
Date MSDS Prepared: 01JAN96
Safety Data Review Date: 1/3/13

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General Information

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Item Name: SODIUM PHOSPHATE, TRIBASIC, ACS
Company's Name: ROCKLAND COLLOID LLC
Company's P.O. Box 3120
Company's Town: Oregon City
Company's State: OR
Company's Zip Code: 97045
Company's Country: U.S.A.
Company's Emergency Phone #: 914 413-3000
Date MSDS Prepared: 01JAN96
Safety Data Review Date: 1/3/13
Unit Of Issue Container Qty: 4 OZ

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Ingredients/Identity Information

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Proprietary: NO
Ingredient: SODIUM PHOSPHATE, TRIBASIC (SARA III)
Ingredient Sequence Number: 01
NIOSH (RTECS) Number: TC9490000
CAS Number: 7601-54-9
OSHA PEL: NOT ESTABLISHED
ACGIH TLV: NOT ESTABLISHED

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Physical/Chemical Characteristics

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Appearance and Odor: CRYSTALLINE ODORLESS
Boiling Point: N/A
Specific Gravity: N/A
Solubility In Water: 35%

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Fire and Explosion Hazard Data

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Flash Point: NONE
Extinguishing Media: USE MEDIA SUITABLE FOR SURROUNDING FIRE (FP N).
Special Fire Fighting Proc: NIOSH/MSHA APPROVED SCBA AND FULL PROTECTIVE EQUIPMENT (FP N).
Unusual Fire And Explosive Hazards: NONE

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Reactivity Data

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Stability: YES
Conditions To Avoid (Stability): NONE
Materials To Avoid: NONE
Hazardous Decomposition Products: NONE SPECIFIED BY MANUFACTURER.
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: YES
Route Of Entry - Skin: NO
Route Of Entry - Ingestion: NO
Health Hazard Acute And Chronic: IRRITANT TO MUCOUS MEMBRANES & SKIN.
MANUFACTURER IDENTIFIES INGESTION AND SKIN AS ROUTES OF ENTRY (FP N).
Carcinogenicity - NTP: NO
Carcinogenicity - IARC: NO
Carcinogenicity - OSHA: NO
Explanation Carcinogenicity: NOT RELEVANT
Signs/Symptoms Of Overexposure: REDNESS AND ITCHING OF SKIN AND MUCOUS MEMBRANES.
Med Condition Aggravated By Exp: SKIN IRRITATION.
Emergency/First Aid Proc: EYES & SKIN: FLOOD EXPOSED AREA WITH WATER FOR AT LEAST 15 MINUTES, ESPECIALLY THE EYES. INGEST: CALL MD IMMEDIATELY (FPN.INHALATION: REMOVE TO FRESH AIR.SUPPORT BREATHING(GIVE O*2/ARTF RESP) (FP N).

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Precautions for Safe Handling and Use

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Steps If Material Released/Spill: FLOOD WITH WATER AND CLEAN UP AND DISPOSE OF IN ACCORDANCE WITH LOCAL AND FEDERAL REGULATIONS.
Neutralizing Agent: NONE SPECIFIED BY MANUFACTURER.
Waste Disposal Method: IN ACCORDANCE WITH LOCAL AND FEDERAL REGULATIONS.
Precautions-Handling/Storing: AVOID CONTINUOUS SKIN CONTACT AND AVOID CONTACT WITH THE EYES.
Other Precautions: NONE SPECIFIED BY MANUFACTURER.

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Control Measures

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Respiratory Protection: NIOSH/MSHA APPROVED RESPIRATOR APPROPRIATE FOR EXPOSURE OF CONCERN (FP N).
Ventilation: MECHANICAL/GENERAL EXHAUST VENTILATION.
Protective Gloves: RUBBER GLOVES.
Eye Protection: CHEM WORK GOGGLES, FACESHLD OPTNL (FP N)

Other Protective Equipment: NONE SPECIFIED BY MANUFACTURER.
Work Hygienic Practices: WASH HANDS FREQUENTLY AND THOROUGHLY DURING
CONTACT WITH MATERIAL AND AT END OF WORKDAY (FP N).
Suppl. Safety & Health Data: NONE SPECIFIED BY MANUFACTURER.

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Transportation Data

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Trans Data Review Date: 91093
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
Additional Trans Data: NOT REGULATED FOR TRANSPORTATION

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Label Data

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Label Required: YES
Technical Review Date: 1/03/13
Label Status: F
Common Name: SODIUM PHOSPHATE TRIBASIC TSP
Chronic Hazard: NO
Signal Word: CAUTION!
Acute Health Hazard-Slight: X
Contact Hazard-Slight: X
Fire Hazard-None: X
Reactivity Hazard-None: X
Special Hazard Precautions: ACUTE: IRRITANT TO MUCOUS MEMBRANES & SKIN.
SYMPTOMS ARE REDNESS & ITCHING OF SKIN & MUCOUS MEMBRANE. CHRONIC: NONE
LISTED BY MANUFACTURER.
Protect Eye: Y
Protect Skin: Y
Label Name: ROCKLAND COLLOID LLC
Label Emergency No.: 914-413-3000

ROCKLAND COLLOID LLC
POLYTONER, PART 3 (COLOR COUPLERS)
MATERIAL SAFETY DATA SHEET
Trade Name: POLYTONER (PART 3 OF 3)

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General Information

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Company's Name: ROCKLAND COLLOID LLC
Company's P.O. Box 3120
Company's Town: Oregon City
Company's State: OR
Company's Zip Code: 97045
Company's Country: U.S.A.
Company's Emergency Ph #: 914 413-3000
Date MSDS Prepared: 01JAN96
Safety Data Review Date: 1/03/13
Unit Of Issue Container Qty: 20CC
Type Of Container: 3 PLASTIC BOTTLES

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Ingredients/Identity Information

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Proprietary: NO
Designation: RED COUPLER
Ingredient: 4-NITROPHENYLACETRONITRILE
Ingredient Sequence Number: 01
Percent: 10
NIOSH (RTECS) Number: N/A
CAS Number: 555-21-5
Proprietary: NO
Designation: YELLOW COUPLER
Ingredient: P-CHLOROACETOACETANILIDE
Ingredient Sequence Number: 02
Percent: 10
NIOSH (RTECS) Number: N/A
CAS Number: 101-92-8
Proprietary: NO
Designation: BLUE COUPLER
Ingredient: 2,4 DICHLORO 1-NAPHTHOL
Ingredient Sequence Number: 03
Percent: 10
NIOSH (RTECS) Number: N/A
CAS Number: 2050-76-2
Proprietary: NO
Ingredient: 2-BUTANONE (METHYL ETHYL KETONE) (MEK)
Ingredient Sequence Number: 04
Percent: 90
NIOSH (RTECS) Number: EL6475000
CAS Number: 78-93-3
OSHA PEL: 200 PPM
ACGIH TLV: 590 MG/CUM
Other Recommended Limit: 590 MG/CUM

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Physical/Chemical Characteristics

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Appearance and Odor: COLORLESS LIQUID W/ACETONE-LIKE ODOR.
Boiling Point: 174.6F
Vapor Pressure (MM Hg/70 F): 78
Vapor Density (Air=1): 2.5
Specific Gravity: 0.8064
Evaporation Rate And Ref: (BU AC = 1): 5.7
Solubility In Water: APPRECIABLE
Percent Volatiles By Volume: 100

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Fire and Explosion Hazard Data

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Flash Point: 20F
Flash Point Method: CC
Lower Explosive Limit: 1.8
Upper Explosive Limit: 10
Extinguishing Media: CO2, DRY CHEMICAL FOR SMALL FIRES, ALCOHOL FOAM FOR LARGE FIRES.
Special Fire Fighting Proc: CLOSE/CONFINED QUARTERS REQUIRE SELF-CONTAINED BREATHING APPARATUS, POSITIVE PRESSURE HOSE MASKS/AIRLINE MASKS.
Unusual Fire And Explosive Hazards: VAPORS HEAVIER THAN AIR. MAY CONCENTRATE & MOVE ALONG FLOOR TO REMOTE IGNITION POINT.

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Reactivity Data

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Stability: YES
Condition To Avoid (Stability): HEAT, SPARKS, OPEN FLAME
Materials To Avoid: ALKANOLAMINE, AMINES, PYRIDINES, AMMONIA, CAUSTICS,
INORGANIC ACIDS, ISOCYANATES, STRONG OXIDIZING AGENTS, (SEE SUPP)
Hazardous Decomposition Products: CO₂, CO.
Hazardous Poly Occur: NO

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Health Hazard Data

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Route Of Entry - Inhalation: YES
Route Of Entry - Skin: NO
Route Of Entry - Ingestion: YES
Health Hazard Acute And Chronic: SKIN: PROLONGED/REPEATED CONTACT CAN
CAUSE DERMATOSES & DERMATITIS. EYES: TRANSIENT CORNEAL INJURY, VAPORS ARE
IRRITATING. INHALATION: RESPIRATORY TRACT IRRITATION. INGESTION: GI
IRRITANT.
Carcinogenicity - NTP: NO
Carcinogenicity - IARC: NO
Carcinogenicity - OSHA: NO
Explanation Carcinogenicity: NONE
Signs/Symptoms Of Overexposure: DRYING, IRRITATION, NAUSEA, NARCOSIS
Emergency/First Aid Proc: SKIN: WASH AFFECTED AREA W/SOAP & WARM WATER.
EYES: FLUSH W/WATER FOR 15 MINS. INHALATION: REMOVE FROM CONTAMINATED
AREA,
GIVE CPR IF NECESSARY. INGESTION: NEVER GIVE AN UNCONSCIOUS PERSON
ANYTHING BY MOUTH. GIVE WATER, INDUCE VOMITING, KEEP VICTIM'S HEAD BELOW
KNEES. OBTAIN MEDICAL ATTENTION IN ALL CASES.

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Precautions for Safe Handling and Use

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Steps If Material Released/Spill: ELIMINATE IGNITION SOURCE. CONTAIN FOR
SALVAGE/DISPOSAL. USE OF ANY DILUTION WATER SHOULD BE CLOSELY CONTROLLED.
KEEP OUT OF WATERWAYS WHERE THERE IS DANGER OF VAPORS BEING IGNITED. MUST
NOT ENTER NATURAL WATERWAYS. ADVISE AUTHORITIES.
Waste Disposal Method: CHEMICAL INCINERATOR, BIOLOGICAL SYSTEM & LANDFILL
IN ACCORDANCE W/FEDERAL, STATE, LOCAL REGULATIONS.
Precautions-Handling/Storing: KEEP AWAY FROM HEAT, SPARKS & OPEN FLAME.
AVOID BREATHING OF VAPORS & SKIN CONTACT. RECOMMEND THAT PRODUCT NOT BE
USED W/METHYL NORMAL BUTYL KETONE.
Other Precautions: AVOID COPPER (POSSIBLE PRESENCE OF ACETYLENE).

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Control Measures

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Respiratory Protection: IF TLV EXCEEDED, USE NIOSH APPROVED ORGANIC VAPOR
CARTRIDGE.
Ventilation: LOCAL EXHAUST
Protective Gloves: NEOPRENE/RUBBER
Eye Protection: CHEMICAL SAFETY GOGGLES
Other Protective Equipment: IMPERVIOUS APRON & SLEEVES, EYE BATH, SAFETY
SHOWER
Work Hygienic Practices: REMOVE & LAUNDER CONTAMINATED CLOTHING BEFORE
REUSE.
Suppl. Safety & Health Data: MATERIALS TO AVOID CONT'D: CHLORINATED
HYDROCARBONS IN THE PRESENCE OF ALKALIES, METHYL NORMAL BUTYL KETONE,
COPPER

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Label Data

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Label Required: YES
Technical Review Date: 01/03/13
Label Date: 03MAY94
Label Status: F
Common Name: 2-BUTANONE; MEK
Chronic Hazard: YES
Signal Word: DANGER!
Acute Health Hazard-Moderate: X
Contact Hazard-Moderate: X
Fire Hazard-Severe: X
Reactivity Hazard-None: X
Special Hazard Precautions: SKIN: PROLONGED/REPEATED CONTACT CAN CAUSE DERMATOSES & DERMATITIS. EYES: TRANSIENT CORNEAL INJURY, VAPORS ARE IRRITATING. INHALATION: RESPIRATORY TRACT IRRITATION. INGESTION: GI IRRITANT. POSSIBLE LUNG IRRITATION FROM SILICA. LONG TERM EXPOSURE TO CRYSTALLINE SILICA CAN CAUSE PNEUMOCOSIOSIS. CARCINOGEN: QUARTZ.
Protect Eye: Y
Protect Skin: Y
Protect Respiratory: Y
Label Name: COLORS
Label Emergency Number: 914-413-3000