

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: 1/3/16

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: 1/3/16

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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: 1/03/16

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: 1/03/16

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: 1-NAPHTHOL

Ingredient Sequence Number: 03

Percent: 10

NIOSH (RTECS) Number: N/A

CAS Number: 90-15-3

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 & LAUNDRER 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. PolytoneerPOSSIBLE LUNG IRRITAITON 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