

ROCKLAND COLLOID LLC
TINTYPE DEVELOPER IN KITS
MATERIAL SAFETY DATA SHEET
Trade Name: TINTYPE KIT

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General Information
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Company's Name: ROCKLAND COLLOID LLC
Company's P.O. Box: 3120
Company's City: Oregon City
Company's State: OR
Company's Country: US
Company's Zip Code: 97045
Company's Emergency Ph #: 914-413-3000
Date MSDS Prepared: 01JAN96
Safety Data Review Date: 1/3/20
Hazard Characteristic Code: C2

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Ingredients/Identity Information
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Proprietary: NO
Ingredient: SODIUM CARBONATE, MONOHYDRATE; INGREDIANT 1+INGREDIANT 2=50-55%
Ingredient Sequence Number: 01
Percent: UNKNOWN
NIOSH (RTECS) Number: 1003578SC
CAS Number: 5968-11-6
OSHA PEL: NOT ESTABLISHED
ACGIH TLV: NOT ESTABLISHED
Other Recommended Limit: NONE RECOMMENDED
Proprietary: NO
Ingredient: SODIUM CARBONATE, ANHYDROUS;INGREDIANT 1+INGREDIANT 2=50-55%.
Ingredient Sequence Number: 02
Percent: UNKNOWN
NIOSH (RTECS) Number: VZ4050000
CAS Number: 497-19-8
OSHA PEL: NOT ESTABLISHED
ACGIH TLV: NOT ESTABLISHED
Other Recommended Limit: NONE RECOMMENDED
Proprietary: NO
Ingredient: SODIUM SULFITE
Ingredient Sequence Number: 03
Percent: 30-35
NIOSH (RTECS) Number: WE2150000
CAS Number: 7757-83-7
OSHA PEL: NOT ESTABLISHED
ACGIH TLV: NOT ESTABLISHED
Other Recommended Limit: NONE RECOMMENDED
Proprietary: NO
Ingredient: HYDROQUINONE (SARA III)
Ingredient Sequence Number: 04
Percent: 6
NIOSH (RTECS) Number: MX3500000
CAS Number: 123-31-9
OSHA PEL: 2 MG/M3
ACGIH TLV: 2 MG/M3; 9394
Other Recommended Limit: NONE RECOMMENDED
Proprietary: NO
Ingredient: P-METHYLAMINOPHENOL SULFATE (METOL)
Ingredient Sequence Number: 05
Percent: 1-5
NIOSH (RTECS) Number: SL8650000
CAS Number: 55-55-1

OSHA PEL: NOT ESTABLISHED
ACGIH TLV: NOT ESTABLISHED
Other Recommended Limit: NONE RECOMMENDED
Proprietary: NO
Ingredient: METAPHOSPHORIC ACID, HEXASODIUM SALT
Ingredient Sequence Number: 06
Percent: 1-5
NIOSH (RTECS) Number: OY3675000
CAS Number: 10124-56-8
OSHA PEL: NOT ESTABLISHED
ACGIH TLV: NOT ESTABLISHED
Other Recommended Limit: NONE RECOMMENDED
Proprietary: NO
Ingredient: POTASSIUM BROMIDE
Ingredient Sequence Number: 07
Percent: 1-5
NIOSH (RTECS) Number: TS7650000
CAS Number: 7758-02-3
OSHA PEL: NOT ESTABLISHED
ACGIH TLV: NOT ESTABLISHED
Other Recommended Limit: NONE RECOMMENDED

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Physical/Chemical Characteristics
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Appearance And Odor: POWDER; WHITE; ODORLESS.
Vapor Pressure (MM Hg/70 F): NEGLIGIBLE
Decomposition Temperature: UNKNOWN
Solubility In Water: APPRECIABLE
Percent Volatiles By Volume: NEGLIG
Corrosion Rate (IPY): UNKNOWN

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Fire and Explosion Hazard Data
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Flash Point: NONE
Extinguishing Media: USE MEDIA APPROPRIATE FOR SURROUNDING FIRE.
Special Fire Fighting Proc: USE A SELF-CONTAINED BREATHING APPARATUS AND
FULL PROTECTIVE EQUIPMENT.
Unusual Fire and Explosive Hazards: HMIS SUGGESTS THAT THE FINELY DISPURSED DUST
FROM THIS PRODUCT IS A FIRE OR EXPLOSION HAZARD IN THE PRESENCE OF SOURCES
OF IGNITION.

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Reactivity Data
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Stability: YES
Condition To Avoid (Stability): NONE SPECIFIED BY MANUFACTURER.
Materials To Avoid: STRONG ACIDS.
Hazardous Decomposition Products: CARBON DIOXIDE, CARBON MONOXIDE, SULFUR DIOXIDE.
Hazardous Poly Occur: NO

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Health Hazard Data
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LD50-LC50 Mixture: ORAL LD50 (RAT) IS 0.5-5G/KG
Route Of Entry - Inhalation: YES
Route Of Entry - Skin: YES
Route Of Entry - Ingestion: NO
Health Hazard Acute And Chronic: EYES:MAY CAUSE IRRITATION.SKIN:MAY CAUSE
IRRITATION.INGEST: MAY CAUSE GI TRACT IRRITATION.INHAL: DUST MAY CAUSE
RESPIRATORY IRRITATION.
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: SKIN: ALLERGIC SKIN REACTIONS.

Med Condition Aggravated By Exp: PERSONS WITH PRE-EXISTING SKIN OR EYE CONDITIONS MAY BE AT INCREASED RISK FROM EXPOSURE.

Emergency/First Aid Proc: SKIN: REMOVE CONTAMINATED CLOTHING; WASH WITH 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, INDUCE VOMITING AS DIRECTED BY MEDICAL PERSONNEL.

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Precautions for Safe Handling and Use

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Steps If Material Released/Spill: SWEEP UP AND PLACE IN AN APPROPRIATE CONTAINER FOR DISPOSAL. FOR SMALL AMOUNTS FLUSH TO SEWER WITH PLENTY OF WATER. CLEAN SPILL AREA THOROUGHLY TO AVOID RESIDUAL CONTAMINATION.

Neutralizing Agent: NONE

Waste Disposal Method: DISPOSE OF IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS.

Precautions-Handling/Storing: FOLLOW LABEL DIRECTIONS. AVOID BREATHING DUSTS. AVOID SKIN AND EYE CONTACT.

Other Precautions: USE WITH ADEQUATE VENTILATION. USE OF AN ACIDIC HAND CLEANER WILL MINIMIZE THE POSSIBILITY OF AN ALLERGIC SKIN REACTION.

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Control Measures

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Respiratory Protection: USE A NIOSH/MSHA APPROVED RESPIRATOR FOR DUST. COMPLY WITH 29CFR1910.134.

Ventilation: USE GENERAL DILUTION VENTILATION WITH 10 AIR CHANGES/HOUR.

Protective Gloves: IMPERIOUS TYPE.

Eye Protection: DUST PROOF GOGGLES.

Other Protective Equipment: PROTECTIVE CLOTHING, AS NEEDED. 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: KEY1;N1.

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Transportation Data

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Trans Data Review Date: 14JUN2007

DOT PSN Code: HNB

DOT Proper Shipping Name: Dektol

DOT Class: 6.1

DOT ID Number: UN2662

DOT Pack Group: III

DOT Label: KEEP AWAY FROM FOOD

IMO PSN Code: IJE

IMO Proper Shipping Name: Dektol, SOLID

IMO Regulations Page Number: 6164

IMO UN Number: 2662

IMO UN Class: 6.1

IMO Subsidiary Risk Label: -

IATA PSN Code: NWE

IATA UN ID Number: 2662

IATA Proper Shipping Name: Dektol

IATA UN Class: 6.1

IATA Label: TOXIC *

AFI PSN Code: NWE

AFI Prop. Shipping Name: Dektol

AFI Class: 6.1

AFI ID Number: UN2662

AFI Pack Group: III

AFI Label: KEEP AWAY FROM FOOD

AFI Basic Pac Ref: 10-13
MMAC Code: NR
Additional Trans Data: NONE

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Disposal Data
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Label Data
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Label Required: YES
Technical Review Date: 1/3/13
MFR Label Number: UNKNOWN
Label Status: F
KAN35438
Signal Word: CAUTION!
Acute Health Hazard-Slight: X
Contact Hazard-Slight: X
Fire Hazard-Slight: X
Reactivity Hazard-None: X
Special Hazard Precautions: EYES: MAY CAUSE IRRITATION.SKIN:MAY CAUSE
IRRITATION.INGEST: MAY CAUSE GI TRACT IRRITATION.INHAL: DUST MAY CAUSEESPIRATORY
IRRITATION. FOLLOW LABEL DIRECTIONS.AVOID BREATHING DUSTS.AVOID
SKIN AND EYE CONTACT. FIRST AID: SKIN:REMOVE CONTAMINATED CLOTHING;WASH
WITH 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,INDUCE VOMITING AS DIRECTED BY MEDICAL
PERSONNEL.
Protect Eye: Y
Protect Skin: Y
Label Name: ROCKLAND COLLOID CORP.
Label Emergency Number: 845-359-0854

ROCKLAND COLLOID LLC
TINTYPE DEVELOPER, PART 3 OF 3 (8oz LIQUID)
MATERIAL SAFETY DATA SHEET
Trade Name: TINTYPE DEVELOPER

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General Information
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Company's Name: ROCKLAND COLLOID LLC
Company's P.O. Box: 3120
Company's City: Oregon City
Company's State: OR
Company's Country: US
Company's Zip Code: 97045
Company's Emergency Ph #: 914-413-3000
Date MSDS Prepared: 01JAN96
Safety Data Review Date: 1/3/13
Unit Of Issue Container Qty: 250 CC
Type Of Container: PLASTIC BOTTLE

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Ingredients/Identity Information
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Proprietary: NO
Ingredient: AMMONIUM THIOSULFATE/AMMONIUM THIOCYANATE 50% SOLUTION (SARA III)
Ingredient Sequence Number: 01
Percent: 90
NIOSH (RTECS) Number: XK7875000
CAS Number: 1762-95-4
OSHA PEL: NOT ESTABLISHED
ACGIH TLV: NOT ESTABLISHED
Proprietary: NO
Ingredient: WATER

Ingredient Sequence Number: 02
Percent: BALANCE
NIOSH (RTECS) Number: ZC0110000
CAS Number: 7732-18-5
OSHA PEL: NOT ESTABLISHED
ACGIH TLV: NOT ESTABLISHED
Other Recommended Limit: NONE RECOMMENDED
Proprietary: NO
Ingredient: SODIUM CARBONATE, ANHYDROUS
Ingredient Sequence Number: 02
Percent: 10
NIOSH (RTECS) Number: VZ4050000
CAS Number: 497-19-8
OSHA PEL: NOT ESTABLISHED
ACGIH TLV: NOT ESTABLISHED
Other Recommended Limit: NONE RECOMMENDED

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Physical/Chemical Characteristics
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Appearance And Odor: COLORLESS, DELIQUESCENT CRYSTALS. ODORLESS OR SL NH*3
Specific Gravity: 1.31
Solubility In Water: COMPLETE
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Fire and Explosion Hazard Data
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Flash Point: NONE
Extinguishing Media: EXTINGUISH WITH AGENT SUITABLE FOR SURROUNDING FIRE.
Special Fire Fighting Proc: WEAR SELF-CNTD BRTHG, APPLY H*20 SPRAY TO COOL CONTR.
Unusual Fire And Explosive Hazards: NOT CONSIDERED TO BE AN EXPLOSION HAZARD.
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Reactivity Data
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Stability: YES
Materials To Avoid: STRONG ACIDS, LEAD NITRATE, KClO*3. GIVES HCN W/ACIDS.
Hazardous Decomposition Products: TOXIC FUMES OF NH*3, NITRIC OXIDES, SO*2 & CYANIDE WHEN HEATED
Hazardous Poly Occur: NO
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Health Hazard Data
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Signs/Symptoms Of Overexposure: INGEST: MAY CAUSE VOMITG, LOW BLD PRESSURE & DEATH; EYES/SKIN: MAY CAUSE IRRIT, REDNESS; INH: NO HEALTH PROBLEM
Emergency/First Aid Proc: INHAL: RMV TO FRESH AIR. GIVE CPR/OXYGEN IF BREATHING IS DIFFICULT. GET MD; INGEST: IMMEDIATELY INDUCE VOMIT BY GIVING 2 GL OF WATER. NOTHING BY MOUTH IF UNCONSCIOUS. GET MEDICAL IMMEDIATELY; SKIN/EYES: FLUSH IMMED W/ LG QTY H*20 FOR 15 MIN. RMV CONTMNTD CLOTHES. GET MEDICAL ATTN.
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Precautions for Safe Handling and Use
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Steps If Material Released/Spill: VENTILATE AREA OF SPILL. CLEAN UP PERSONS NEED PROTCTV CLOTHG/RESP PROTCTION FM DUST. PICK UP SPILL & PLACE IN A SUITABLE CONTAINER FOR RECLAMATION OR DISPOSAL IN A METHOD THAT DOES NOT GENERATE DUST.
Waste Disposal Method: WHATEVER CANNOT BE SAVED FOR RECLAMATION MAY BE DISPOSD AS HAZ WASTE IN A RCRA APPRVD WASTE DISPOSAL FACILITY. COMPLY WITH LOCAL, ST. & FED REGS; CWA/CERCLA RQ: 5000LBS.
Precautions-Handling/Storing: KEEP IN TIGHTLY CLOSED CONTNRS AT COOL, DRY, VENTILATED PLACE. PROTECT AGAINST PHY DAMAGE. ISOLATE FROM OXIDIZING MATERIALS. STORE IN THE DARK.
Other Precautions: AVOID BREATHING DUST. USE W/ADEQUATE VENTILATION. KEEP CONTAINRS CLOSED. WASH THOROUGHLY AFTER HANDLING. AVOID SKIN, EYES & CLOTHING

CONTACT; WARNING! HARMFUL IF SWALLOWED.

Control Measures

Respiratory Protection: SUPPLIED AIR RESPIR/SCBA; ESCAPE: GAS MASK
Ventilation: LOCAL EXHAUST TO MAINTN BELOW TLV.
Protective Gloves: IMPERVIOUS
Eye Protection: GOGGLES/FACE SHIELD
Other Protective Equipment: FULL PROTECTIVE CLOTHING, SAFETY SHOWER,EYE
WASH STATION
Suppl. Safety & Health Data: MSDS FM MFR DATED:08-13-85 WHICH CONFORMS TO
OSHA HAZ COMM STANDARDS.

Transportation Data

Trans Data Review Date: 14JUN2007
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: DOT RQ:5000LBS.

Label Data

Label Required: YES
Label Status: G
Common Name: AMMONIUM THIOCYANATE
Special Hazard Precautions: INGEST:MAY CAUSE VOMITG,LOW BLD PRESSURE &
DEATH;EYES/SKIN:MAY CAUSE IRRIT,REDNESS;INH:NO HLTH PRBLM
Label Name: ROCKLAND COLLOID CORP.
Label Emergency Number: 845-359-5559

ROCKLAND COLLOID LLC
TINTYPE DEVELOPER, Part 2 (in bag)
MATERIAL SAFETY DATA SHEET
Trade Name: TINTYPE FIXER

General Information

Company's Name: ROCKLAND COLLOID LLC
Company's P.O. 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: 1/3/13
Unit Of Issue Container Qty: 1.5oz
Type Of Container: ORIGINAL BAG

Ingredients/Identity Information

Proprietary: NO
Ingredient: SODIUM SULFATE
Ingredient Sequence Number: 01
Percent: >5%
NIOSH (RTECS) Number: WE6660000

CAS Number: 10102-17-7
Proprietary: NO
Ingredient: OTHER COMPONENTS.(PER MSDS NON-HAZARDOUS)
Ingredient Sequence Number: 02
Percent: <1%
NIOSH (RTECS) Number: 10032920C
Proprietary: NO
Ingredient: WATER
Ingredient Sequence Number: 03
Percent: BALANCE
NIOSH (RTECS) Number: ZC0110000
CAS Number: 7732-18-5

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Physical/Chemical Characteristics
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Appearance And Odor: CLEAR & COLORLESS, LIQUID, ODORLESS
Boiling Point: >212F
Specific Gravity: 0.996
Solubility In Water: MISCIBLE
pH: 7.9%

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Fire and Explosion Hazard Data
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Reactivity Data
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Stability: YES
Cond To Avoid (Stability): HEAT, LIGHT
Hazardous Poly Occur: NO

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Health Hazard Data
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Route Of Entry - Inhalation: NO
Route Of Entry - Skin: NO
Route Of Entry - Ingestion: NO
Health Hazard Acute and Chronic: PRACTICALLY NON-TOXIC
Carcinogenicity - NTP: NO
Carcinogenicity - IARC: NO
Carcinogenicity - OSHA: NO
Explanation Carcinogenicity: NONE
Signs/Symptoms Of Overexposure: PRACTICALLY NON-TOXIC
GIVE LARGE QUANTITIES OF WATER. INHALATION: REMOVE TO FRESH AIR. 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: DILUTE W/WATER. POUR DOWN THE DRAIN W/EXCESS
WATER.
Waste Disposal Method: DISPOSE OF IN ACCORDANCE W/FEDERAL, STATE & LOCAL
REGULATIONS.
Precautions-Handling/Storing: STORE IN A COOL, DRY PLACE & PROTECT FROM
SUNLIGHT.
Other Precautions: AVOID CONTACT W/EYES & SKIN.

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Control Measures
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Eye Protection: SAFETY GLASSES W/TOP & SIDE SHIELDS
Work Hygienic Practices: WASH THOROUGHLY AFTER HANDLING.

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Label Data
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Label Required: YES
Technical Review Date: 1/3/13

Label Date: 14JUN2007
Label Status: F
Common Name: 323 SODIUM THIOSULFATE SOLUTION 0.10N
Chronic Hazard: NO
Signal Word: CAUTION!
Acute Health Hazard-Slight: X
Contact Hazard-None: X
Fire Hazard-None: X
Reactivity Hazard-None: X
Special Hazard Precautions: PRACTICALLY NON-TOXIC /HEART/BLOOD/
REPRODUCTIVE/IMMUNESYSTEM EFFECTS. TARGET EFFECTS: NEUROTOXIN/
NEPHROTOXIN/TERATOGEN.
Protect Eye: Y
Label Name: ROCKLAND COLLOID LLC
Label Emergency Number: Poison Control