

# Halo-Chrome® Silver Toner (1)

ROCKLAND COLLOID CORP.-- HALO-CHROME TONER  
MATERIAL SAFETY DATA SHEET  
Trade Name: HALO-CHROME® TONER

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## General Information

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Item Name: AMMONIUM HYDROXIDE/SODIUM HYDROXIDE SOLUTION.  
Company's Name: ROCKLAND COLLOID CORP.  
Company's City: PIERMONT  
Company's State: NY  
Company's Country: US  
Company's Zip Code: 10968  
Company's Emerg Ph #: (845) 359-5559  
Date MSDS Prepared: 01JAN96  
Safety Data Review Date: 14JUN99  
Hazard Characteristic Code: C2  
Unit Of Issue: 250 CC  
Type Of Container: SEAMLESS PLASTIC BOTTLE

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## Ingredients/Identity Information

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Proprietary: NO  
Ingredient: AMMONIUM HYDROXIDE (SARA III)  
Ingredient Sequence Number: 01  
Percent: 30  
NIOSH (RTECS) Number: BQ9625000  
CAS Number: 1336-21-6  
OSHA PEL: NOT ESTABLISHED  
ACGIH TLV: NOT ESTABLISHED

Proprietary: NO  
Ingredient: SODIUM HYDROXIDE (SARA III)  
Ingredient Sequence Number: 02  
Percent: 2.5  
NIOSH (RTECS) Number: WB4900000  
CAS Number: 1310-73-2  
OSHA PEL: 2 MG/M3  
ACGIH TLV: C 2 MG/M3; 9293

Proprietary: YES  
Ingredient: NON-HAZARDOUS INGREDIENTS AND WATER  
Ingredient Sequence Number: 03  
Percent: 67.5  
NIOSH (RTECS) Number: N/A  
CAS Number: N/A

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## Physical/Chemical Characteristics

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Appearance And Odor: COLORLESS LIQUID, PUNGENT ODOR  
Boiling Point: >212 F 100 C  
Vapor Pressure (MM Hg/70 F): 584  
Vapor Density (Air=1): <1  
Specific Gravity: .960  
Evaporation Rate And Ref: ETHER <1  
Percent Volatiles By Volume: 10%

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Fire and Explosion Hazard Data

Flash Point: NONE  
Extinguishing Media: THIS PRODUCT NON-COMBUSTIBLE  
Special Fire Fighting Proc: NONE  
Unusual Fire And Expl Hazrds: AMMONIUM HYDROXIDE NON-COMBUST & NON-EXPLOS,  
BUT AMMONIUM VAPOR RELEASES FORM SOLUTION CAN FORM EXPLOS MIXTURE

Reactivity Data

Stability: YES  
Materials To Avoid: STRONG ACIDS  
Hazardous Poly Occur: NO

Health Hazard Data

Signs/Symptoms Of Overexp: SKIN IRRIT CAUSING GRAY SPLOTCHES, BURNING OF  
THROAT, COUGHING, DIFFICULTY BREATHING, PULMONARY CONGEST(S)  
Emergency/First Aid Proc: SKIN: FLUSH W/ SOAP & WATER. REMOVE CONTAM CLOTHING  
& SHOES. GET MEDICAL ATTN. EYES: FLUSH W/ PLENTY OF WATER F/ AT LEAST 15 MIN. GET  
MED ATTN. INHAL: REMOVE TO FRESH AIR. IF NOT BREATHING GIVE ARTIF RESPIR, GIVE  
OXYG, GET MEDICAL ATTN. INGEST: DO NOT INDUCE VOMIT (SUP)

Precautions for Safe Handling and Use

Steps If Matl Released/Spill: AVOID PHYSICAL CONTACT AND INHALATION OF  
VAPORS. DILUTE W/ LARGE QUANTITIES OF WATER.  
Waste Disposal Method: DILUTED SOLUTION CAN BE DISPOSED OF AS WASTE WATER  
UNLESS PROHIBITED BY LAW.  
Precautions-Handling/Storing: KEEP AWAY FROM STRONG ACIDS; STORE IN COOL  
AREA W/ ADEQUATE VENTILATION. HAVE FLUSHING WATER AVAILABLE.

Control Measures

Respiratory Protection: SELF-CONTAINED ALKALINE GAS CANISTER  
Ventilation: SUFFICIENT TO KEEP NH<sub>3</sub> CONCENTRATION AT LESS THAN 50 PPM.  
Protective Gloves: RUBBER GLOVES  
Eye Protection: GAS-TIGHT GOGGLES  
Suppl. Safety & Health Data: EFF/OVEREXPOS: ASPHYXIA. EXTREMELY CORROSIVE TO  
EYES. INGEST OF AQUA AMMONIA IS EXTREME HAZ & MAY CAUSE DEATH. EMERG: DRINK  
COLD MILK (WATER IF MILK NOT AVAIL W/O CAUSING VOMIT. GET MEDICAL ATTN.

Transportation Data

Trans Data Review Date: 93158  
DOT PSN Code: ANB  
DOT Proper Shipping Name: AMMONIA SOLUTIONS  
DOT Class: 8  
DOT ID Number: UN2672  
DOT Pack Group: III  
DOT Label: CORROSIVE  
IMO PSN Code: AWY  
IMO Proper Shipping Name: AMMONIA SOLUTION  
IMO Regulations Page Number: 8111  
IMO UN Number: 2672  
IMO UN Class: 8  
IMO Subsidiary Risk Label: -  
IATA PSN Code: BKD  
IATA UN ID Number: 2672

IATA Proper Shipping Name: AMMONIA SOLUTION  
IATA UN Class: 8  
IATA Label: CORROSIVE  
AFI PSN Code: BKD  
AFI Prop. Shipping Name: AMMONIA SOLUTIONS  
AFI Class: 8  
AFI ID Number: UN2672  
AFI Pack Group: III  
AFI Basic Pac Ref: 12-5

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Disposal Data  
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Disposal Data Review Date: 89048  
Rec # For This Disp Entry: 01  
Tot Disp Entries Per NSN: 002  
Landfill Ban Item: YES  
Disposal Supplemental Data: EFF/OVEREXPOS:ASPHYXIA.EXTREMELY CORROSIVE TO EYES.INGEST OF AQUA AMMONIA IS EXTREME HAZ & MAY CAUSE DEATH. EMERG:DRINK COLD MILK(WATER IF MILK MOT AVAIL W/O CAUSING VOMIT.GET MEDICAL ATTN. IN CASE OF ACCIDENTAL EXPOSURE OR DISCHARGE, CONSULT HEALTH AND SAFETY FILE FOR PRECAUTIONS.  
1st EPA Haz Wst Name New: NOT REGULATED  
1st EPA Haz Wst 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: AMMONIUM HYDROXIDE/SODIUM HYDROXIDE SOLUTION  
Special Hazard Precautions: SKIN IRRIT CAUSING GRAY SPLOTCHES,BURNING OF THROAT,COUGHING,DIFFICUTY BREATHING,PULMONARY CONGEST(S  
Label Name: ROCKLAND COLLOID CORP.  
Label Emergency Number: 845 359-5559