ROCKLAND COLLOID LLC

AG-PLUS PHOTOGRAPHIC EMULSION

MATERIAL SAFETY DATA SHEET

Trade Name: AG-PLUS® PHOTOGRAPHIC EMULSION

Item Name: PHOTOGRAPHIC EMULSION

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 Ph#:914-413-3000

Date MSDS Prepared: 01JAN96 Safety Data Review Date: 9/09/12

Ingredients/Identity Information

Proprietary: NO

Ingredient: SILVER HALIDES CONSISTING OF INGREDIENTS 2, 3 & 4.

Ingredient Sequence Number: 01

Percent: 40

NIOSH (RTECS) Number: 1006800SH

CAS Number: 7783-96-2

OSHA PEL: N/A ACGIH TLV: N/A

Proprietary: NO

Ingredient: SILVER BROMIDE
Ingredient Sequence Number: 02

Percent: 10

NIOSH (RTECS) Number: 1006301SB

CAS Number: 7785-23-1

OSHA PEL: N/A ACGIN TLV: N/A

Proprietary: NO

Ingredient: SILVER CHLORIDE
Ingredient Sequence Number: 03

Percent: 10

NIOSH (RTECS) Number: VW3563000

CAS Number: 7783-90-6

OSHA PEL: N/A ACGIH TLV: N/A

Proprietary: NO Ingredient: GELATIN

Ingredient Sequence Number 04

Percent: 10

CAS Number: 9000-70-8

OSHA PEL: N/A ACGIN TLV: N/A

Proprietary: NO

Ingredient: CADMIUM CHLORIDE (SARA III)

Ingredient Sequence Number: 05

Percent: TRACE

NIOSH (RTECS) Number: EV0178000

CAS Number: 7790-78-5

OSHA PEL: 0.2MG/CUM CADMIUM

ACGIH TLV: 0.01 MG/CUM

Proprietary: NO Ingredient: WATER

Percent: <95

NIOSH (RTECS) Number: ZC0110000

CAS Number: 7732-18-5

Physical/Chemical Characteristics

Appearance and Odor: WHITE GEL. NO ODOR.

Boiling Point: 100C Melting Point: 80C

Vapor Pressure (MM Hg/70 F): 23.5mm

Vapor Density: <1
Specific Gravity: >1

Evaporation Rate and reference :(BUAC=1) <1 Solubility in Water: SOLUBLE IN WARM WATER

Fire and Explosion Hazard Data

Flash Point: N/A

Extinguishing Media: WATER MIST, ALCOHOL FOAM, CO*2, DRY CHEMICAL.

Reactivity Data

Stability: YES

Condition To Avoid (Stability): EXPOSURE TO HEAT, LIGHT & OTHER RADIATION SOURCES EXCEPT AS NECESSARY IN PROCESSING.

Hazardous Decomposition Products: NONE.

Hazardous Poly Occur: NO

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Health Hazard Data

Inhalation: IF SPRAYED, PROTECT AGAINST AEROSOL VAPORS.

Skin: MILD IRRITANT.

Ingestion: SLIGHTLY TOXIC.

Health Hazards Acute And Chronic: THIS PRODUCT CONTAINS TRACE AMOUNTS OF CADMIUM SALT THAT MAY CAUSE LOCALIZED IRRITATION.

Emergency/First Aid Procedures: INHALATION: REMOVE SUBJECT TO FRESH AIR, GIVE OXYGEN OR ARTIFICIAL RESPIRATION IF NEEDED. EYE CONTACT: FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTS. IF EYE IRRITATION PERSISTS, SEEK MEDICAL ATTENTION. SKIN CONTACT: REMOVE CONTAMINATED CLOTHING AND WASH CONTACT AREA WITH WATER (WARM WATER IF AVAILABLE). IF SKIN IRRITATION PERSISTS, SEEK MEDICAL ATTENTION. INGESTION: IF APPRECIABLE QUANTITIES ARE SWALLOWED, CALL A PHYSICIAN OR POISON CONTROL CENTER.

Precautions for Safe Handling and Use

Steps If Material Released/Spill: MOP UP WITH WARM OR HOT WATER. SAVE FOR DISPOSAL. FLUSH AREA WITH WARM WATER.

Waste Disposal Method: DISOSAL SHOULD BE MADE IN CONFORMANCE WITH APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS.

Precautions-Handling/Storing: STORE IN COOL, DRY PLACE AWAY FROM HEAT, RADIATION OR LIGHT SOURCES.

Control Measures

Respiratory Protection: NOT APPLICABLE UNLESS APPLYING BY SPRAY, WHERE CHEMICAL MIST PROTECTION IS REQUIRED.

Ventilation: ROOM VENTILATION UNLESS APPLYING BY SPRAY, WHERE FUME HOOD OR OTHER MEANS OF LOCALIZED AIR-EXTRACTION IS REQUIRED.

Protective Gloves: DISPOSABLE RUBBER OR PLASTIC GLOVES RECOMMENDED.

Protective Clothing: WEAR CLOTHING TO LIMIT SKIN CONTACT. A SAFETY SHOWER AND EYE WASH FACILITY SHOULD BE AVAILABLE.

Eye Protection: CHEMICAL WORKERS GOGGLES.

Work Hygienic Practices: WASH HANDS AFTER HANDLING.

Suppl. Safety & Health Data: ESSENTIALLY INSOLUBLE IN WATER AT ROOM TEMP BECAUSE OF GELATIN CONTENT, EXCEPT FOR TRACE COMPONENTS. SOLUBLE IN WATER WARM ENOUGH TO MELT GELATIN (ABOVE 80C OR 100F).

Transportation Data

Trans Data Review Date: 9/09/12 DOT Hazard Class: NOT REGULATED

DOT Shipping Name: N/A

Label Data

Label Required: YES

Technical Review Date: 9/09/12

Label Status: G

Common Name: PHOTOGRAPHIC EMULSION

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: AVOID HEAT, LIGHT AND OTHER RADIATION SOURCES.

MAY CAUSE EYE/SKIN IRRITATION-- AVOID CONTACT WITH EYES/SKIN/CLOTHING

Label Name: AG-PLUS