

MATERIAL SAFETY DATA SHEET

RA.043-00
Issue date: 02/10/03
Revision date:
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Identify (As Used on Label and List): ISO I-COLOR (ALL SHADES)

SECTION 1

GENERAL INFORMATION

Manufacturer's Name:
Zotos International, Inc.

Emergency Telephone #: (800) 584-8038 - 24 hours

Address (Number, Street, City, State, & Zip Code):
100 Tokeneke Road,
Darien, CT 06820

Information Telephone #: (203) 656-7859 – (Mon-Fri)
(8:30 a.m. – 5:00 p.m. EST)

Prepared: 11/03/05

Current MSDS Update: 5/05/08

SECTION 2

HAZARDOUS INGREDIENTS / HAZARD DATA

ISO i-color generally contains the following (0.10% concentration or greater):

CHEMICAL NAME(S)	CAS NUMBER	TLV-TWA	PEL	OTHER LIMITS RECOMMENDED
m-Phenylenediamine	108-45-2	0.1 mg/m ³		
p-Phenylenediamine	106-50-3	0.1 mg/m ³ skin		
Resorcinol	108-46-3	10 ppm		
p-Aminophenol	123-30-8	2 mg/m ³		
Ammonium Hydroxide	1336-21-6	25 ppm	35 ppm	ammonia
Ethanolamine	141-43-5	3 ppm		
Glyceryl Stearate	123-94-4	10mg/m ³		
Glycol Stearate	111-60-4	10 mg/m ³		

Toxicity: Gleason Toxicity Rating: 3 (Gosselin, Hodge, Smith and Gleason) Moderately toxic if ingested.

SECTION 3

PHYSICAL DATA

Boiling Point @ 760 mm Hg: N/A

Specific Gravity (H₂O = 1): 0.985-1.05

Vapor Pressure mm Hg @ 20°C: N/A

Melting Point @ 760 mm Hg: N/A

Vapor Density (Air = 1): N/A

Evaporation Rate (BuAc = 1): N/A

Solubility in Water: Partly soluble.

Appearance and Odor: Opaque creme with an ammoniacal odor.

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SECTION 4**FIRE AND EXPLOSION HAZARD DATA**

Flash Point °F (Test Method): N/A

Autoignition Temperature: N/A

Flammability Limits in Air (%V)

LEL = N/A

UEL = N/A

Extinguishing Media: ABC all-purpose extinguisher or CO₂ extinguisher, water. The type of fire extinguisher should be in conformance with local fire regulations.

Special Fire Fighting Procedures: None

Unusual Fire & Explosion Hazards: None

SECTION 5**REACTIVITY DATA**

Product Stability: Unstable Stable

Conditions to Avoid: Heat

Chemical Incompatibility: Acids.

Hazardous Decomposition Products: Ammonia.

Hazardous Polymerization: May Occur Will Not Occur

Conditions to Avoid: Reducing materials, organics, and heavy metals.

SECTION 6**HEALTH HAZARD DATA * EFFECTS OF OVEREXPOSURE**

Route(s) of Entry: Ingestion Inhalation Skin

Health Hazards (Acute):

Skin Contact: May induce hypersensitivity and elicit reactions on sensitized people.

Eye Contact: CAUTION: eye irritant. When VeroColor is mixed with developers (hydrogen peroxide), the mixture may cause severe irritation and possible permanent eye injury.

Inhalation: Excessive inhalation of ammonia vapors may result in irritation of mucous membranes of the respiratory system.

Ingestion: Non-toxic.

Health Hazards (Chronic): For purposes of chronic exposure under the OSHA Hazard Communication Standard, this is an untested mixture. These products have been used extensively by consumers and Joico is not aware of any significant adverse effects. None of the ingredients are carcinogenic or suspected carcinogens by NTP, OSHA, or IARC.

Skin Contact: Skin irritant. Induce skin sensitization.

Eye Contact: Irritating to the mucous membrane of the eyes.

Inhalation: Irritating to the mucous membrane of the respiratory system. They may trigger asthmatic attacks in sensitive individuals. Induce respiratory hypersensitivity.

Medical Conditions Generally Aggravated by Exposure: Will be related to the primary toxic (pharmacologic) effect of this material; pre-existing dermatitis would likely be made worse by skin irritant, bronchitis is aggravated by irritant gases or particles in the air.

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SECTION 7

EMERGENCY AND FIRST AID PROCEDURES

Skin: Wash skin immediately with soap and water (do not use solvents). Change into clean clothing if spilled on clothes. Should allergic reaction develop, consult a dermatologist.

Eyes: Remove contact lenses, if used. Flush with water for 15 minutes immediately. Get medical attention IMMEDIATELY.

Inhalation: For any signs of breathing difficulty or shortness of breath, remove person to fresh air. Increase ventilation. Seek IMMEDIATE medical attention.

SECTION 8

ENVIRONMENTAL DATA

Spill or Leak Procedures: Mop and flush with water. Floors can be slippery when wet. Wash floors with detergent and water.

Waste Disposal Method: Disposal should be in accordance with all applicable Local, State, and Federal regulations.

Precautions to be taken in handling and storing procedures: Avoid contact with skin. Store in cool, dry, and well-ventilated place. Do not store any tint after it has been mixed with developer; the container may rupture.

Other Precautions: None.

SECTION 9

SPECIAL PROTECTION INFORMATION

Respiratory Protection: Under normal conditions of use, none required. When excessive and prolonged exposure is anticipated, a NOISH approved chemical respirator is recommended.

Ventilation: Special ventilation not required. Ventilation should be adequate to avoid build up of irritating concentrations.

Protective Clothing: Rubber or plastic gloves should be worn to avoid skin irritation.

Eye Protection: Under normal conditions, none required. Avoid contact with eyes.

Work/Hygienic Practices: Always follow good hygienic work practices. Avoid all skin, eye, and clothing contact. In case of contact, rinse thoroughly with water. Promptly clean up all small spills.

SECTION 10

SHIPPING DATA

Hazardous Substance 49 CFR CERCLA: N/A

D.O.T. Hazard Class: Exempt

D.O.T. Labels Required: None

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D.O.T. Placards Required: None

Poison Constituent: None

CC No.: N/A

UN/UA Code:

SECTION 11

SUPPLIER INFORMATION

The information contained herein is, to the best of our knowledge and belief, accurate and reliable as of the date issued. We do not however, warrant or guarantee the accuracy or reliability, nor shall we be liable for any loss or damage arising out of the use thereof. The information is offered for the user's consideration and examination, and it is the user's responsibility to satisfy himself that it is suitable and complete for his particular use.

ABBREVIATIONS

DOT: Department of Transportation
NA (N/A): Not Applicable
NE (N/E): Not Established
ND (N/D): Not Determined
PEL: Permissible Exposure Limit
TLV: Threshold Limit Value
TWA: Time Weighted Average
UNK: Unknown