



**RPD is an
authorized distributor**

Radiation Products Design, Inc

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Phone: 800-497-2071 Fax 763-497-2295

RPD Product Information

Item Number Description

| | |
|---------|--|
| 460-501 | +Shadowform Markers - 18cm Vaginal |
| 460-502 | +Shadowform Markers - 38cm Rectal Marker |
| 460-503 | +Shadowform Markers - 10cm Rectal Marker |

MATERIAL SAFETY DATA SHEET

Product Name: ShadowForm™ Marker 5000 Series Page 1 of 6

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: ShadowForm™ Marker 5000 Series
 Responsible Party: I.Z.I. Corporation, Inc.
 2624 Lord Baltimore Dr.
 Suite K
 Baltimore, MD 21244

For further information contact MSDS Coordinator
 9am - 5pm Eastern Time, Mon - Fri: 800-231-1499

EMERGENCY OVERVIEW

Health Hazards: None Anticipated

Physical Hazards: None Anticipated

< Physical Form: Solid
 < Appearance: Pale green
 < Odor: Slight plastic

NFPA HAZARD CLASS: Health: 0 (Least)
 Flammability: 0 (Least)
 Reactivity: 0 (Least)

2. COMPOSITION/INFORMATION ON INGREDIENTS

| HAZARDOUS COMPONENTS | % Weight | EXPOSURE GUIDELINE | | |
|---|----------|-------------------------------------|--------|-----------|
| | | Limits | Agency | Type |
| Barium Sulfate CAS# 7727-43-7 | 23.0 | 10 mg/m3 | ACGIH | TWA |
| | | 5 mg/m3 | OSHA | TWA-Resp. |
| | | 15 mg/m3 | OSHA | TWA-Total |
| Silica-Crystalline (Quartz) CAS# 14808-60-7 | 0-0.23% | 0.05 mg/m3 | ACGIH | TWA-Resp. |
| | | See OSHA 29 CFR 1910.1000 table Z-3 | | |

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| <u>OTHER COMPONENTS</u> | <u>% Weight</u> | <u>EXPOSURE GUIDELINE</u> | | |
|--------------------------------------|-----------------|---------------------------|---------------|-------------|
| | | <u>Limits</u> | <u>Agency</u> | <u>Type</u> |
| PX-16302-E Plastisol CAS# Mixture | 77.0 | None | Established | |

Note: State, local or other agencies or advisory groups may have established more stringent limits. Consult an industrial hygienist or similar professional, or your local agencies, for further information.

3. HAZARDS IDENTIFICATION

POTENTIAL HEALTH EFFECTS:

Eye: Not known to be an eye irritant.

Skin: Not known to be a skin irritant. No harmful effects from skin absorption have been reported.

Inhalation (Breathing): Inhalation is unlikely during normal use. However, expected to have a low degree of toxicity if inhalation.

Ingestion (Swallowing): Ingestion is unlikely. However, expected to have a low degree of toxicity if ingestion.

Signs and Symptoms: No effects of overexposure are expected.

Cancer: Not expected to be a carcinogen (see Other Comments below).

Target Organs: Not expected to cause damage. No data for components.

Developmental: Not expected to cause damage. No data for components.

Other Comments: Quartz, a potential component is a known human cancer hazard. However, exposure to the quartz in this material is not anticipated due to it being bound in the product.

Pre-Existing Medical Conditions: None anticipated.

4. FIRST AID MEASURES

Eye: First aid is not normally required. However, if irritation or redness develops, move victim away from exposure and into fresh

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air. Flush eyes with clean water. If symptoms persist, seek medical attention.

Skin: First aid is not normally required.

Inhalation (Breathing): First aid is not normally required.

Ingestion (Swallowing): First aid is not normally required.

5. FIRE FIGHTING MEASURES

Flammable Properties: Flash Point: Not applicable
OSHA Flammability Class: Not applicable
LEL/UEL: Not applicable
Autoignition Temperature: No data
Burn Rate (solids only): Not applicable

Unusual Fire & Explosion Hazards: No unusual fire or explosion hazards are expected.

Extinguishing Media: Use extinguishing agent suitable for type of surrounding fire.

Fire Fighting Instructions: For fires beyond the incipient stage, emergency responders in the immediate hazard area should wear bunker gear. When the potential chemical hazard is unknown, in enclosed or confined spaces, or when explicitly required by DOT, a self-contained breathing apparatus should be worn. In addition, wear other appropriate protective equipment as conditions warrant (see Section 8). Isolate immediate hazard area and keep unauthorized personnel out. Contain spill if it can be done with minimal risk. Move undamaged containers from immediate hazard area if it can be done with minimal risk. Cool equipment exposed to fire with water, if it can be done with minimal risk.

6. ACCIDENTAL RELEASE MEASURES

Stay upwind and away from spill. Notify persons down wind of spill, isolate immediate hazard area and keep unauthorized personnel out. Contain spill if it can be done with minimal risk. Wear appropriate protective equipment including respiratory protection as conditions warrant (see Section 8). Prevent spilled material from entering sewers, storm drains, other unauthorized treatment drainage systems, and natural waterways. Notify appropriate federal, state, and local agencies. Minimize dust generation. Clean up and package

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appropriately for disposal.

7. HANDLING AND STORAGE

Handling: The use of appropriate respiratory protection is advised when concentrations exceed any established exposure limits (see Section 2 & 8). Wash thoroughly after handling. Use good personal hygiene practice.

Storage: Use and store this material in cool, dry, well-ventilated areas.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls: Not normally required. However, if current ventilation practices are not adequate to maintain airborne concentrations below the established exposure limits (see Section 2), additional ventilation or exhaust systems may be required.

Personal Protective Equipment (PPE):

Respiratory: Respiratory protection is not normally required.

Skin: Not required based on the hazards of the material. However, it is considered good practice to wear gloves when handling chemicals.

Eye/Face: Approved eye protection to safeguard against potential eye contact, irritation, or injury is recommended. Depending on conditions of use, a face shield may be necessary.

Other Protective Equipment: A source of clean water should be available in the work area for flushing eyes and skin. Impervious clothing should be worn as needed.

9. PHYSICAL AND CHEMICAL PROPERTIES

Note: Unless otherwise stated, values are determined at 20°C (68°F) and 760 mm Hg (1 atm).

Flash Point: Not applicable

Flammable/Explosive Limits (%): Not applicable

Autoignition Temperature: No data

Burn Rate (solids only): Not applicable

Appearance: Pale green

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Physical State: Solid
Odor: Slight plastic
Boiling Point: No data
Freezing/Melting Point: No data
Solubility in Water: No data
Specific Gravity: No data

10. STABILITY AND REACTIVITY

Chemical Stability: Stable under normal conditions of storage and handling.

Conditions To Avoid: May be sensitive to heat.

Incompatible Materials: None Known.

Hazardous Decomposition Products: None Known

Hazardous Polymerization: Will not occur.

11. TOXICOLOGICAL INFORMATION

Silica-Crystalline (Quartz) (CAS# 14808-60-7)

Carcinogenicity: Cancer of the lung was found in laboratory animals chronically exposed to crystalline silica by inhalation. Crystalline silica has been identified as a carcinogen by NTP and IARC.

12. DISPOSAL CONSIDERATIONS

This material, if discarded as produced, is not a RCRA "listed" hazardous waste. However, it should be fully characterized for toxicity prior to disposal (40 CFR 261). Use resulting in chemical or physical change or contamination may subject it to regulation as a hazardous waste. Along with properly characterizing all waste materials, consult state and local regulation regarding the proper disposal of this material.

Container contents should be completely used and containers should be emptied prior to discard. Container rinsate could be considered a RCRA hazardous waste and must be disposed of with care and in full compliance with federal, state and local regulations. Larger empty containers, such as drums, should be returned to the distributor or to a drum reconditioner. To assure proper disposal of smaller empty

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containers, consult with state and local regulations and disposal authorities.

13. TRANSPORT INFORMATION

Hazard Class or Division: Not classified as hazardous

14. REGULATORY INFORMATION

This material contains the following chemicals subject to the reporting requirements of **SARA 313** and 40 CFR 372:

| COMPONENT | CAS NUMBER | WEIGHT % |
|-----------|------------|----------|
| | None Known | |

Warning: This material contains the following chemicals which are known to the State of California to cause cancer, birth defects or other reproductive harm, and are subject to the requirements of **California Proposition 65** (CA Health & Safety Code Section 25249.5):

| COMPONENT | EFFECT |
|--------------------|--------|
| Silica-Crystalline | Cancer |

This material has not been identified as a carcinogen by NTP, IARC, or OSHA.

15. DOCUMENTARY INFORMATION

Issue Date: 07/05/00

Previous Issue Date: None

16. DISCLAIMER OF EXPRESSED AND IMPLIED WARRANTIES

The information in this document is believed to be correct as of the date issued. **HOWEVER, NO WARRANTY OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR ANY OTHER WARRANTY IS EXPRESSED OR IS TO BE IMPLIED REGARDING THE ACCURACY OR COMPLETENESS OF THIS INFORMATION, THE RESULTS TO BE OBTAINED FROM THE USE OF THIS INFORMATION OR THE PRODUCT, THE SAFETY OF THIS PRODUCT, OR THE HAZARDS RELATED TO ITS USE.** This information and product are furnished on the condition that the person receiving them shall make his own determination as to the suitability of the product for his particular purpose and on the condition that he assume the risk of his use thereof.

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