

*Architectural Coating Technologies, Inc.*  
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**Diamond Shield**  
**Material Safety Data Sheet**  
Last Revised: 03/31/03

Architectural Coating Technologies, Inc. has provided the information contained in this material safety data sheet (msds) to communicate physical properties, health, and safety information and urges each customer or recipient to study it carefully to become aware of hazards if any exist and to allow you to fulfill your obligation to educate and alert exposed personnel in the proper handling techniques necessary to maintain safety in their work environment. The reader should consider consulting reference works or individuals that are experts in ventilation, toxicology, and fire prevention, as necessary or appropriate to use and understand the data contained in this msds.

**SECTION 1 PRODUCT IDENTIFICATION**

|                  |                               |
|------------------|-------------------------------|
| Diamond Shield   |                               |
| Chemical Name:   | Not Applicable                |
| Chemical family: | Aqueous Emulsion, Proprietary |
| Formula:         | Proprietary Trade Secret      |

**SECTION 2 PHYSICAL PROPERTIES**

|                           |                       |
|---------------------------|-----------------------|
| Appearance                | Off-White Paste       |
| Physical State            | Viscous               |
| Odor                      | Very Mild             |
| Specific Gravity          | 1.50                  |
| Weight per Gallon         | 12.00                 |
| Evaporation Rate          | < Butyl Acetate       |
| Solubility in Water       | Miscible              |
| Boiling Range             | >100°C (212° F) Water |
| Freezing Point            | 0 °C (32°F)           |
| Flash Point               | Non-Combustible       |
| Auto Ignition Temperature | Not Applicable        |
| Flammable Limits in Air   | LEL: Not Applicable   |
|                           | UEL: Not Applicable   |

Heavier than Air

### **SECTION 3 FIRE HAZARDS**

Not considered a fire hazard. When involved in a fire does not contribute any unusual hazards. If temperature exceeds the boiling point of water during fire product may spatter but will not burn. Oxides on nitrogen may be produced.

### **SECTION 4.0 FIREFIGHTING MEASURES**

As in any fire, prevent human exposure to fire, smoke, fumes, or products of combustion. Evacuate non-essential personal from the fire area.

#### **4.1 EXTINGUISHING MEDIA**

Non-Flammable (aqueous system): after water evaporates, remaining material will burn. Apply alcohol type foam, use water spray, carbon dioxide or dry chemical media.

#### **4.2 EXTINGUISHING MEDIA TO AVOID**

No information currently available.

#### **4.3 SPECIAL FIRE FIGHTING PROCEDURES**

Use standard fire fighting techniques to extinguish fires involving this product.

#### **4.4 SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS**

Use self-contained breathing apparatus and complete personal protective equipment when entering confined areas where potential for exposure to vapors or products of combustion exists.

#### **4.5 UNUSUAL FIRE EXPLOSION HAZARDS**

Product will not burn, but may spatter if temperature exceeds boiling range, closed containers may rupture due to build up of pressure at this temperature. Polymer film may burn giving off oxides of carbon and nitrogen.

### **SECTION 5.0 REACTIVITY DATA**

This product is stable and hazardous polymerization will not occur.

#### **5.1 CONDITIONS TO AVOID**

Avoid extreme temperatures.

#### **5.2 MATERIALS TO AVOID**

Avoid contact with strong oxidizers and water reactive chemicals, contamination with strong acids and bases may coagulate the emulsion.

#### **5.3 HAZARDOUS DECOMPOSITION PRODUCTS**

Fumes produced when heated to decomposition may include oxides of carbon and nitrogen.

## **SECTION 6.0 HUMAN HEALTH HAZARD**

### **6.1 EFFECTS OF OVER EXPOSURE**

OSHA permissible exposure limit (PEL), and threshold limit value (ACGIH) have not been established.

### **6.2 INGESTION**

Not expected in industrial use no evidence of adverse effects from available information. Contains ingredients that may be considered practically non toxic.

### **6.3 INHALATION**

No evidence of adverse effects from available information, low volatility makes inhalation unlikely, no toxic effects expected, however trace components and residual monomer vapors may be irritating, and may produce symptoms of headache or nausea in poorly ventilated areas.

### **6.4 SKIN CONTACT**

Contains materials that are essentially non-irritating, however prolonged contact may cause slight transient irritation.

### **6.5 EYE CONTACT**

Contains materials that are essentially non-irritating, however prolonged contact may cause slight transient irritation.

### **6.6 SKIN ABSORPTION**

Absorption through the skin is unlikely, contains materials that are essentially non-irritating.

### **6.7 CHRONIC EFFECTS OF EXPOSURE**

None known.

There is no data available which address medical conditions that are generally recognized as being aggravated by exposure to this product.

This material does not contain any ingredients listed by IARC, NTP or OSHA as carcinogens in amounts exceeding .05%.

## **SECTION 7 FIRST AID**

### **7.1 EYE CONTACT**

In case of contact flush with water for a minimum of 15 minutes and seek

medical attention if irritation persists.

## **7.2 SKIN CONTACT**

Remove contaminated clothing and wash the contact area with soap and warm water for 15 minutes, seek medical attention if irritation persists.

## **7.3 INGESTION**

Ingestion is not anticipated and no harmful effects are expected, however if appreciable quantities are consumed, seek medical attention.

## **7.4 INHALATION**

Inhalation is not anticipated with industrial use, and no harmful effects are expected, however in case of over exposure, remove person to fresh air and if symptoms persist, seek medical attention.

## **7.5 NOTE TO PHYSICIAN**

Toxicology studies of similar materials have shown similar material to be very low acute toxicity. There is no specific antidote. Treatment of over exposure should be directed at the control of symptoms and clinical conditions.

## **8.0 INDUSTRIAL HYGIENE**

The recommendations described in this section are provided as general guidance for minimizing exposure when handling and applying this product. Because use conditions and application procedures will vary depending customer applications, a person knowledgeable in materials handling should review the intended use and conditions.

## **SECTION 9.0 ACCIDENTAL SPILL OR LEAK HANDLING**

Small spills can be flushed with water. Large spills should be collected in an appropriate container for disposal. Observe all local, state, and federal laws and regulations regarding disposal, spill, cleanup, removal, or discharge.

### **9.1 GENERAL HANDLING**

Avoid breathing vapor from opening container.

Avoid contact with skin and clothing.

Keep container closed when not in use.

Use with adequate ventilation.

Wash thoroughly after handling.

## **SECTION 10.0 STORAGE**

Store above 4°C (40°F) exercise due caution to prevent damage to the container.

**DO NOT FREEZE.**

## **SECTION 11.0 SPECIAL PROTECTION INFORMATION**

Respirator protection should not be anticipated, however where ventilation is inadequate and vapor or mist levels could cause the workers irritation, a properly fitted NIOSH/ MSHA approved respirator should be used. Protective gloves should be used where contact may occur. Safety glasses should be used as eye protection.

The opinions expressed herein are those of qualified personnel within Architectural Coating Technologies, Inc. We believe the information contained herein is current as of the date of this material safety data sheet. Since the use of this information, and these opinions, and the conditions of use of the product are not within the control of Architectural Coating Technologies, Inc., it is the users obligation to determine the conditions of safe use of the product.

## **SECTION 12.0 ADDITIONAL INFORMATION**

Not established (NE); Not applicable/ Not available (NA;) Not determined (ND) Threshold limit value TLV Permissible exposure Limit (PEL) Occupational Safety and Health Administration (OSHA) American Conference of Government Industrial Hygienists (ACGIH) Lower Explosive Limit (LEL) Upper Explosive Limit (UEL) Toxic Substances Control Act (TSCA) Superfund Amendments and Reauthorization Act (SARA)

### **Canada:**

WHIMIS: Residual components are below the concentration threshold on the ingredient disclosure list.

NPRI: Not listed.