

## 1. PRODUCT AND COMPANY IDENTIFICATION

### Product Identification

**Product ID: ST004-00C**                      UPC# 7 73204 60004 7

Product Name:                      **SmartCoat (Universal White)**  
Product Use:                        Paint product.  
Effective date:                      16/Sep/2008  
Revision Date:                      16/Sep/2008  
UN ID Number:                      NRPAIN  
WHMIS Classification:              D2B Toxic Material D2A Very Toxic Material

### Company Identification

**Distributed by:**                      Alexandria Moulding, Inc.  
    95 Lochiel Street East  
    Alexandria, Ontario K0C-1A0  
    Phone: 1-866-377-2539

**FOR EMERGENCY MEDICAL  
INFORMATION, CONTACT LOCAL  
POISON CONTROL OFFICE.**

## 2. HAZARDS IDENTIFICATION

### Primary Routes of Exposure

- Inhalation
- Ingestion
- Skin absorption

### **Eye Contact:**

- Moderate eye irritation

### **Skin Contact:**

- Dermatitis
- Causes skin irritation.

### **Ingestion:**

- Irritation of the mouth, throat, and stomach.
- Harmful if swallowed.

### **Inhalation:**

- Causes respiratory tract irritation.
- Harmful by inhalation.

### **Target Organ and Other Health Effects:**

- Liver injury may occur.
- Kidney injury may occur.
- Causes headache, drowsiness or other effects to the central nervous system.

### **This product contains ingredients that may contribute to the following potential chronic health effects:**

Notice: Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

**Carcinogens:**

- Possible cancer hazard. Contains material which may cause cancer based on animal data.

### 3. COMPOSITION / INFORMATION ON HAZARDOUS INGREDIENTS

Ingredient Name	Approx. Weight %	Chemical Name	CAS Number
TITANIUM DIOXIDE	15 - 20	Titanium dioxide	13463-67-7
AMMONIA SALT OF MODIFIED STYRENE ACRYLIC POLYMERS	10 - 15	SUPPLIER TRADE SECRET	UNKNOWN
PROPYLENE GLYCOL	1 - 5	1,2-Propylene glycol	57-55-6
DIPROPYLENE GLYCOL METHYL ETHER	1 - 5	Dipropylene glycol monomethyl ether	34590-94-8
ALUMINUM HYDROXIDE	1 - 5	Aluminum hydroxide (Al(OH) <sub>3</sub> )	21645-51-2

If this section is blank there are no hazardous components per WHMIS guidelines.

**This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by the Controlled Products Regulations.**

### 4. FIRST AID MEASURES

**Eye Contact:**

Get medical attention, if symptoms develop or persist. Immediately flush eye(s) with plenty of water. Remove any contact lenses and open eyes wide apart.

**Skin Contact:**

Remove contaminated clothing and shoes. Wash off immediately with plenty of water for at least 15 minutes. Get medical attention, if symptoms develop or persist.

**Ingestion:**

Rinse mouth with water. Give one or two glasses of water. Only induce vomiting at the instruction of medical personnel. Get medical attention. Never give anything by mouth to an unconscious person.

**Inhalation:**

Move injured person into fresh air and keep person calm under observation. Get medical attention immediately.

**Medical conditions aggravated by exposure:**

Any respiratory or skin condition.

## 5. FIRE FIGHTING MEASURES

Flash point (Fahrenheit):	205°F (96°C)
Lower explosive limit:	1 %
Upper explosive limit:	17 %
Autoignition temperature:	not determined -°F (°C)
Sensitivity to impact:	no
Sensitivity to static discharge:	Sensitivity to static discharge is not expected.
Hazardous combustion products:	See Section 10.

### Unusual fire and explosion hazards:

None known.

### Extinguishing media:

Carbon dioxide, dry chemical, foam and/or water fog.

### Fire fighting procedures:

Firefighters should be equipped with self-contained breathing apparatus and turn out gear. Keep containers and surroundings cool with water spray.

## 6. ACCIDENTAL RELEASE MEASURES

### Action to be taken if material is released or spilled:

Ventilate the area. Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13). Avoid contact with eyes.

## 7. HANDLING AND STORAGE

### Precautions to be taken in handling and storage:

This coating contains aluminum pigment, store in a dry area. Aluminum may react with water, acids and caustics slowly producing gas and heat. In a sealed drum this may cause a pressure build-up over a period of time and drum should be vented before opening. Keep container closed when not in use. Do not freeze. Since emptied containers may contain product residue, follow all label warnings, even after container is emptied. Do not cut, drill, grind, or weld on or near this container.

## 8. PERSONAL PROTECTIVE EQUIPMENT AND EXPOSURE CONTROLS

### Personal Protective Equipment

#### Eye and face protection:

Chemical goggles, also wear a face shield if splashing hazard exists.

#### Skin protection:

Appropriate chemical resistant gloves should be worn.

#### Other Personal Protection Data:

To prevent skin contact wear protective clothing covering all exposed areas.

## Respiratory protection:

Wear appropriate, properly fitted respirator (NIOSH approved) during spray application or in other situation where mists may be generated unless air monitoring vapor mist levels are below applicable limits-- where applicable limits have been established. When respirators are used, follow respirator manufacturers directions for use.

## Ventilation

Use only in well-ventilated areas. Ensure adequate ventilation, especially in confined areas. Ovens used for curing should contain a fresh air purge to prevent vapours from accumulating and creating a possible explosive mixture.

## Exposure Guidelines

### OSHA Permissible Exposure Limits (PEL's)

Ingredient Name CAS-No.	Approx. Weight %	TWA (final)	Ceilings limits (final)	Skin designations
TITANIUM DIOXIDE 13463-67-7	15 - 20	15 Total dust. mg/m <sup>3</sup>		
DIPROPYLENE GLYCOL METHYL ETHER 34590-94-8	1 - 5	600 mg/m <sup>3</sup> 100 ppm		Can be absorbed through the skin.

### ACGIH Threshold Limit Value (TLV's)

Ingredient Name CAS-No.	Approx. Weight %	TWA	STEL	Ceiling limits	Skin designations
TITANIUM DIOXIDE 13463-67-7	15 - 20	10 mg/m <sup>3</sup>			
DIPROPYLENE GLYCOL METHYL ETHER 34590-94-8	1 - 5	100 ppm	150 ppm		Can be absorbed through the skin.

## 9. PHYSICAL PROPERTIES

Odor:	Normal for this product type.
Physical State:	liquid
pH:	not determined
Vapor pressure:	24 mmHg @ 77°F (25°C)
Vapor density (air = 1.0):	5.11
Boiling point:	not determined
Solubility in water:	not determined
Coefficient of water/oil distribution:	not determined
Density (lbs per US gallon):	10.14
Specific Gravity:	1.21
Evaporation rate (butyl acetate = 1.0):	0.1
Flash point (Fahrenheit):	205°F (96°C)
Lower explosive limit:	1 %
Upper explosive limit:	17 %
Autoignition temperature:	not determined -°F (°C)

## 10. STABILITY AND REACTIVITY

Stability: Stable under normal conditions.  
 Conditions to Avoid: This product may react with water, acids, and caustics, slowly producing gas and heat.  
 Incompatibility: Strong oxidizing agents  
 Hazardous Polymerization: None anticipated.  
 Hazardous Decomposition Products: Carbon monoxide and carbon dioxide. Metal oxide fumes.  
**Sensitivity to static discharge:** Sensitivity to static discharge is not expected.

## 11. TOXICOLOGICAL INFORMATION

Ingredient Name CAS-No.	Approx. Weight %	NIOSH - Selected LD50s and LC50s
PROPYLENE GLYCOL 57-55-6	1 - 5	Oral LD50 Rat : 20 gm/kg Oral LD50 Mouse : 22 gm/kg Dermal LD50 Rabbit : 20800 mg/kg
DIPROPYLENE GLYCOL METHYL ETHER 34590-94-8	1 - 5	Oral LD50 Rat : 5400 uL/kg Dermal LD50 Rabbit : 10 mL/kg

### Mutagens/Teratogens/Carcinogens:

Possible cancer hazard. Contains material which may cause cancer based on animal data.

Contains TIO2 which is listed by IARC as a possible human carcinogen (Group 2B) based on animal data. Neither long term animal studies, nor human epidemiology studies of workers exposed to TIO2 provide an adequate basis to conclude TIO2 is carcinogenic. TIO2 is not classified as a carcinogen by NTP, U.S. OSHA, or the U.S. EPA.

Ingredient Name CAS-No.	Approx. Weight %	IARC Group 1 - Human Evidence	IARC Group 2A - Limited Human Data	IARC Group 2B - Sufficient Animal Data
TITANIUM DIOXIDE 13463-67-7	15 - 20			2B Possible Carcinogen

## 12. ECOLOGICAL DATA

No information on ecology is available.

## 13. DISPOSAL CONSIDERATIONS

Dispose of waste at an approved hazardous waste treatment/disposal facility in accordance with applicable local, provincial and federal regulations.

## 14. TRANSPORTATION INFORMATION

### Canadian Transport of Dangerous Goods

Proper Shipping Name: PAINT, NOT REGULATED  
 UN ID Number: NRPAIN

## TDG Clear Language Exceptions:

For Dangerous Goods, the supplier may apply one of the following exceptions (TDG Reference): Limited quantity/Consumer Commodity (1.17), Does not sustain combustion, etc. (2.18), Viscous liquid (2.19), Flammable liquid General Exemption (1.33) or US DOT Reciprocity (9.1,3 & 4). Please consult current TDG regulations before applying any of these exceptions to subsequent shipments.

## International Air Transport Association (IATA):

Proper Shipping Name: PAINT, NOT REGULATED  
UN ID Number: NRPAIN

## International Maritime Organization (IMO):

Proper Shipping Name: PAINT, NOT REGULATED  
Non-Bulk UN ID Number: NRPAIN

## 15. REGULATORY INFORMATION

### INTERNATIONAL REGULATIONS - Chemical Inventories

**Canada Domestic Substances List:** All components of this product are listed on the Domestic Substances List.

**US TSCA Inventory:** All components of this product are in compliance with U.S. TSCA Chemical Substance Inventory requirements.

## 16. OTHER INFORMATION

### HMIS Codes

**Health:** 2\*  
**Flammability:** 1  
**Reactivity:** 1  
**PPE:** X - See Section 8 for Personal Protective Equipment (PPE).

### Abbreviations:

OSHA - Occupational Safety and Health Administration, IARC - International Agency for Research on Cancer, NIOSH - National Institute of Occupational Safety and Health, NTP - National Toxicology Program, ACGIH - American Conference of Governmental Industrial Hygienists, SCAQMD - South Coast Air Quality Management District, TSCA - Toxic Substances Control Act, IATA - International Air Transport Association, IMO - International Maritime Organization, DOT - Department of Transportation, NA - Not applicable, NOT ESTAB - Not established, N.A.V. - Not available, RQ - Reportable quantity, WT - Weight, MG/CU M - Milligrams per cubic meter, G/L - Grams per liter, MM - Millimeters, MPPCF - Millions of particles per cubic foot, PPM - parts per million, PPT - parts per thousand, TCC/PM - Tag closed cup / Pensky-Martens, PB - Lead, PEL - Permissible exposure level, TWA - Time Weighted Average, TLV - Threshold Limit Value, STEL - Short term exposure limit, C - Celsius, F - Fahrenheit.

### Disclaimer:

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