

# MATERIAL SAFETY DATA SHEET

*This Material Safety Data Sheet meets or exceeds the requirements of the Canadian Controlled Product Regulations (WHMIS)*

## 1. Product and Supplier Identification

**Product:** Deco Seal Supreme

**Product Use:** Polymer sealant for cementaceous products

**Manufacturer:** Smart Surface Technology Inc.,  
Unit 143 – 14273 Knox Way,  
Richmond, B.C., Canada, V6V 2Z7  
Telephone: (604) 244-3122  
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## 2. Composition

Component	w/w%	Exposure Limits/ACGIH <sup>1</sup>	LD <sub>50</sub>	LC <sub>50</sub>
Acrylic Polymer (CAS No Not available)	15-30	Not established	>5000 mg/kg (rat/oral)	Not available
2-Butoxyethanol (CAS No. 111-76-2)	5-10	TLV-TWA 20 ppm Proposed carcinogenicity designation A3 <sup>2</sup>	560 mg/kg (yearling male rat/oral)	486 ppm (rat/4 hour exposure)
Ingredients not WHMIS controlled	70-85	Not applicable	Not applicable	Not applicable

1 American Conference of Governmental Industrial Hygienists (ACGIH). Exposure limits may vary from time to time and from one jurisdiction to another. Check with local regulatory agency for the exposure limits in your area.

2. Indicates confirmed animal carcinogen with unknown affect on humans

## 3. Hazards Identification

### Routes of Entry:

Skin Absorption: Yes  
Skin Contact: Yes  
Eye Contact: Yes  
Ingestion: Yes  
Inhalation: Yes

**Emergency Overview:**

Very toxic by inhalation and ingestion. May be absorbed by the skin, contributing to overall exposure. Inhalation of vapour or spray mist may cause headache, nausea and irritation of the nose throat and lungs. Slightly irritating to the skin. Contact of vapour or mist in the eyes will cause minor irritation. Ingestion may cause abdominal pain, nausea and vomiting.

Contains 2-butoxyethanol which is toxic and may cause blood and liver damage based on animal evidence. No contents are considered carcinogenic.

**Acute Health Effects:**

**Inhalation:**

Toxic. Can be fatal in cases of extreme exposure. Causes CNS effects, headache, nausea, dizziness, drowsiness, loss of consciousness, and possible death. Animal studies indicate blood system effects, blood cell fragility, hemoglobinuria (unbound hemoglobin in urine), but these have not been observed in studies with humans.

**Skin Contact:**

May cause slight irritation in persons predisposed to skin problems.

**Skin Absorption:**

May be absorbed through the skin leading to overall exposure. Health effects are similar to those listed in "Inhalation".

**Eye Contact:**

No human information available. Liquid, vapour or mist may cause moderate to severe irritation, with redness and pain, corneal damage if concentration is high. Severity of effects depends on concentration and duration of exposure.

**Ingestion:**

Ingestion may cause abdominal pain, nausea or vomiting.

**Chronic Health Effects:**

None known.

**Medical Conditions Aggravated by Exposure:**

Persons with pre-existing skin disorders may be affected by the use of this product.

<b>4. First Aid Measures</b>
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**Inhalation:**

No first aid should be necessary, but if an irritation occurs causing coughing or phlegm, remove to fresh air. Call for medical assistance if coughing doesn't subside.

**Skin Contact:**

Wash affected area thoroughly with soap and water. If irritation occurs or persists, seek medical attention.

**Eye Contact:**

Check for and remove contact lenses. Immediately and thoroughly flush eyes with large amounts of water for at least 15 minutes, occasionally lifting the lower and upper eyelids. If irritation, pain, swelling, or lacrimation exists, get medical attention as soon as possible.

**Ingestion:**

If patient is conscious, give one or two glasses of milk or water. **Do not induce vomiting.** Do not give anything by mouth to a convulsing or unconscious person. To avoid accidental aspiration if

vomiting should occur, have victim lean forward with head down. Get immediate medical attention.

**General Comments:**

Good personal hygiene is essential. Avoid eating, smoking or drinking in work areas.

## 5. Fire Fighting Measures

**Flammability:** Not as product, however, if water is driven off, residue may burn.

**Flash Point:** Not applicable

**Autoignition Temperature:** Not applicable

**Lower Explosive Limit:** Not applicable

**Upper Explosive Limit:** Not applicable

**Explosion Data:**

**Sensitivity to Impact:** No

**Sensitivity to Static Discharge:** No

**Hazardous Combustion Products:** Carbon dioxide, carbon monoxide.

**Conditions to Avoid:** None

**Extinguishing Media:** Use foam, CO<sub>2</sub>, dry chemical, water fog. Use water spray for surrounding fire.

**Fire Fighting Instructions:** Fire fighters must wear full turnout gear with self contained breathing apparatus. Evacuate area and fight fire from a safe distance or a protected area. Approach fire from upwind. Use water spray to cool containers to prevent pressure buildup and potential rupture.

## 6. Accidental Release Measures

**Personal Protection:**

Wear adequate personal protection to prevent inhalation of mists, contact with skin or eyes. See Section 8 for specific recommendations.

**Environmental Precautions:**

Prevent from spilling into waterways, drains, or sewers.

**Cleanup Procedures:**

Restrict access to area until completion of cleanup. Assess danger from a safe distance. Only adequately trained personnel, wearing properly selected personal protective equipment and clothing described in Section 8, should be involved in the spill response and cleanup.

Dike and absorb with inert material such as sand and remove all liquid with the use of a vacuum system. If unable to remove as a liquid, then absorb with sand, sawdust or commercial absorbent. Scoop up and place in appropriate containers for disposal.

## 7. Handling and Storage

### Handling Procedures:

Keep containers closed when not being used. Protect from freezing! Follow safe work procedures and wear the appropriate personal protective equipment specified in Section 8. The workers must be instructed and trained in the safe work procedures. Wash hands thoroughly before eating, drinking, or smoking.

### Storage:

Avoid freezing temperatures, but store in a cool, dry, well ventilated area.

## 8. Exposure Controls, Personal Protection

### Engineering Controls:

Ensure that sufficient ventilation is available to keep vapours as low as possible.

### Respiratory Protection:

Under recommended directions for use, respirators are not necessary. If ventilation is poor see respirator recommendations below, based on vapour concentration.

### Recommendations:

NIOSH/MSHA approved chemical cartridge respirator equipped with organic vapour cartridges or supplied-air respirator for concentrations up to 50 ppm. To 125 ppm: continuous-flow supplied-air respirator, or powered air-purifying respirator with organic vapour cartridges. To 250 ppm: full face-piece chemical cartridge respirator with organic vapour cartridges, powered, full face-piece air-purifying respirator with organic vapour cartridges, or full face-piece self-contained breathing apparatus. To 700 ppm: full face-piece, positive-pressure supplied-air respirator. For higher or unknown concentrations, as in fire or spill conditions, full face-piece, positive-pressure self-contained breathing apparatus, or positive-pressure, full face-piece supplied-air respirator with an auxiliary positive-pressure, self-contained breathing apparatus. Respirators must be NIOSH approved and properly selected, maintained and used when working with this product. Knowledge of respiratory hazards and respiratory protection is essential to ensure appropriate selection of respirators

### Skin Protection:

Wear clothing to prevent contact with skin. Butyl rubber, Viton or Saranex gloves are recommended.

### Eye and Face Protection:

Wear safety glasses to prevent contact with eyes and make immediately available appropriate emergency eyewashing equipment (e.g. portable or plumbed) capable of flushing the eyes for at least 15 minutes.

## 9. Physical and Chemical Properties

<b>Appearance:</b>	Thixotropic liquid
<b>Odour:</b>	Slight ammonical odour
<b>Odour Threshold:</b>	Not available
<b>pH:</b>	8.5 -10
<b>Vapour Pressure:</b>	2.2 kPa @ 20°C
<b>Solubility:</b>	Soluble
<b>Vapour Density:</b>	< 1 (Air = 1)
<b>Freezing Point</b>	Approximately 0°C
<b>Boiling Point:</b>	Approximately 100°C
<b>Critical Temperature:</b>	Not available
<b>Relative Density:</b>	1.05 (Water = 1)
<b>Coefficient of</b>	
<b>Water/oil Distribution:</b>	Not available
<b>Evaporation Rate:</b>	Slower than ether

## 10. Stability and Reactivity

**Chemical Stability:** This product is stable.  
**Hazardous Polymerization:** Will not occur.  
**Incompatibility:** None Known  
**Reactivity:** No

**Hazardous Decomposition Products:** None Known

## 11. Toxicological Information

**Effects of Acute Exposure:** See Section 3  
**Effects of Chronic Exposure:** See Section 3  
**Irritancy:** Yes. See Section 3.  
**Skin Sensitization:** None reported  
**Respiratory Sensitization:** None reported  
**Neurotoxicity:** None reported  
**Carcinogenicity:** No  
**Embryotoxicity:** No  
**Teratogenicity:** No  
**Reproductive Toxicity:** No.  
**Mutagenicity:** No  
**Synergistic Products:** None reported

## 12. Ecological Information

**Environmental Toxicity:** No Information found.

**Biodegradability:** No information found.

## 13. Disposal Considerations

Review federal, provincial or state, and local government requirements prior to disposal. Store material for disposal as indicated in Storage Conditions. Disposal by controlled incineration may be acceptable.

## 14. Transport Information

**Canadian Transportation of Dangerous Goods Regulations:** Not regulated

**International Air Transport Association (IATA):** Not regulated

**International Maritime Organization (IMO):** Not regulated

## 15. Regulatory Information

### CANADIAN FEDERAL REGULATIONS:

**CEPA, DOMESTIC SUBSTANCES LIST:** Listed

**WHMIS CLASSIFICATION:** D1A, D2B

## 16. Other Information

**Original Preparation Date:** August 14, 2006

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**Disclaimer:** This Material Safety Data Sheet was prepared in accordance with criteria and requirements of the Hazardous Products Act and the Controlled Products Regulations using information provided by the manufacturer and other sources including CCINFO (Chemical Information published by the Canadian Centre for Occupational Health and Safety). The information in the Material Safety Data Sheet is offered for your consideration and guidance when exposed to this product. The data in this MSDS does not apply to use with any other product or in any other process.

*This Material Safety Data Sheet may not be changed, or altered in any way without the expressed knowledge and permission of Smart Surface Technology Inc.*

**Latest revision:** None