

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: Texture Seal

Product Use: Concrete Sealer

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 ¹	LD ₅₀	LC ₅₀
Xylenes (CAS No. 1330-20-7)	75-85	TLV-TWA: 100 ppm STEL: 150 ppm	5400 mg/kg (rat/oral)	6350 ppm (rat/4 hour)
Ingredients not WHMIS controlled	15-25	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.

3. Hazards Identification

Routes of Entry:

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

Emergency Overview:

Clear, colourless liquid with an aromatic hydrocarbon odour. Flammable liquid and vapour. Material will float on water and may travel to distant locations and/or spread fire. Vapour is heavier than air and may collect in low lying areas. High vapour concentrations may cause headache, nausea, dizziness, drowsiness, and incoordination. Aspiration hazard! Swallowing or vomiting of the liquid may result in aspiration into the lungs.

Product may contain very low concentrations of carcinogenic ethylbenzene.

Acute Health Effects:

Inhalation:

High vapour concentrations may cause headaches, nausea, dizziness, drowsiness, and incoordination and other symptoms of central nervous system (CNS) depression.

Skin Contact:

May cause mild skin irritation, resulting in a burning sensation, redness, swelling and blisters. In person pre-disposed to skin problems, reaction to skin contact may be more immediate or severe.

Skin Absorption:

May be absorbed through the skin. This route of entry is part of overall exposure. Effects of exposure by skin absorption will have the same effects as ingestion.

Eye Contact:

May cause minor irritation resulting in a transient burning sensation, redness or blurred vision.

Ingestion:

Toxic my ingestion! Ingestion may cause CNS depression, headache, dizziness, nausea, and vomiting. If aspiration of this product occurs, it could be life-threatening, causing pulmonary edema.

Chronic Health Effects:

This product is expected to have minimal long term health effects. Long term exposure to organic solvents is associated with a condition called "organic solvent syndrome". Symptoms such as excessive fatigue, reduced memory, pain and numbness in the legs, arms, hands and feet. Some behavioural changes have been observed in some people with long-term exposures to organic solvents. Repeated skin contact may cause defatting of the skin resulting in redness, rash, or itchy skin. Synergistically reacts with n-hexane to enhance hearing loss.

Medical Conditions Aggravated by Exposure:

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

4. First Aid Measures

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. If breathing becomes laboured, oxygen may be administered by a trained person.

Skin Contact:

If victim has a reaction to the product, wash affected area thoroughly with soap and water until all residue of the product has been removed. If irritation 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. Give victim 240 to 300 ml of water to dilute contents of stomach. 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: Yes.

Flash Point: 25°C Tag Closed Cup

Autoignition Temperature: 471 °C (aromatic naphtha)

Lower Explosive Limit: 1.1%

Upper Explosive Limit: 6.6%

Explosion Data:

Sensitivity to Impact: No

Sensitivity to Static Discharge: Probably not sensitive to static discharge.
Vapours from product may be ignited by a static discharge.

Hazardous Combustion Products: Carbon dioxide, carbon monoxide and many unidentifiable organic compounds in smoke.

Conditions to Avoid: Avoid using this product near sources of heat or ignition. Avoid contact with strong oxidizers.

Extinguishing Media: Use foam, CO₂, dry chemical, water fog. Use water spray for surrounding fire. Do not spray a water stream directly on product. This will only spread the material and expand the 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. Vapours may travel long distances and accumulate in low lying areas. Remove all sources of ignition, flame or heat. 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.

Avoid breathing vapours. Dike and absorb with a non-combustible absorbent and place in appropriate closed containers for disposal.

7. Handling and Storage

Handling Procedures:

Keep containers closed when not being used. 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:

Store away from heat, flame or sources of ignition. Avoid storing near combustibles or oxidizing materials. Post "No Smoking" signs in the storage area.

8. Exposure Controls, Personal Protection

Engineering Controls:

Ensure that sufficient ventilation is available to keep vapours as low as possible. Mechanical ventilation should be designed for a flammable environment and be constructed of non-sparking components.

Respiratory Protection:

At a minimum, use a NIOSH approved respirator with an organic vapour cartridge. 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. Viton or nitrile gloves are recommended.

Eye and Face Protection:

Wear safety glasses to prevent contact with eyes. If product application causes splashing, wear a face shield. Remove contact lenses. Make 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

Appearance:	Liquid
Odour:	Typical aromatic hydrocarbon odour
Odour Threshold:	Not available
pH:	Not applicable
Vapour Pressure:	1 kPa @ 20°C
Solubility:	Soluble
Vapour Density:	3.7 (Air = 1)
Freezing Point	Approximately -48°C
Boiling Point:	Approximately 138°C
Critical Temperature:	Not available
Relative Density:	0.864 – 0.884 @ 15.5 °C (Water = 1)
Coefficient of	
Water/oil Distribution:	Not available
Evaporation Rate:	0.05 – 0.37 (n-butyl acetate = 1)

10. Stability and Reactivity

Chemical Stability:	This product is stable.
Hazardous Polymerization:	Will not occur.
Incompatibility:	Oxidizing materials
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:	See Section 3
Embryotoxicity:	Studies cannot attribute any effects to Xylene.
Teratogenicity:	Studies cannot attribute any effects to Xylene.
Reproductive Toxicity:	Studies cannot attribute any effects to Xylene.
Mutagenicity:	Studies cannot attribute any effects to Xylene.
Synergistic Products:	May react synergistically with n-hexane to increase hearing loss

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:	Coating Solution, Class 3, UN1139, PG III
International Air Transport Association (IATA):	Coating Solution, Class 3, UN1139, PG III
International Maritime Organization (IMO):	Coating Solution, Class 3, UN1139, PG III Flash Point = 25°C EmS No. F-E, S-E Stowage Category "A"

15. Regulatory Information

CANADIAN FEDERAL REGULATIONS:

CEPA, DOMESTIC SUBSTANCES LIST: Listed

WHMIS CLASSIFICATION: B2, D2A, D2B

16. Other Information

Original Preparation Date: August 11, 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