

# 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:** DESO Dye Concentrates

**Product Use:** Concrete Stain                      Colour: Various

**Manufacturer:** Smart Surface Technology Inc.,  
Unit 143 – 14273 Knox Way,  
Richmond, B.C., Canada, V6V 2Z7  
Telephone: (604) 244-3122  
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24-Hour Emergency Response Telephone for Transport Emergencies ONLY:                      +1 (604) 986-4617

## 2. Composition

Component	w/w%	Exposure Limits/ACGIH <sup>1</sup>	LD <sub>50</sub>	LC <sub>50</sub>
Non-Hazardous Ingredients, ingredients not WHMIS controlled	100	Not applicable	Not applicable	Not applicable

## 3. Hazards Identification

**Routes of Entry:**

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

**Acute Health Effects:** Direct contact may cause minor irritation of the skin and eyes. In persons predisposed to skin problems, minor rash may occur. Temporary staining of the skin may occur. Eye irritation is expected to be minor, causing minor pain and redness. Although ingestion is not a typical route of entry, ingesting small amounts may cause abdominal discomfort. Inhalation of vapours, if heated, may cause slight upper respiratory tract irritation.

**Chronic Health Effects:** None known

## 4. First Aid Measures

**EYE CONTACT:** Flush contaminated eye(s) with lukewarm, gently running water for 15 minutes, holding eyelids open. Seek medical attention if irritation persists.

**SKIN CONTACT:** Wash affected area immediately with mild soap and water. If irritation persists, seek immediate medical attention. Remove any contaminated clothing and launder clothing before reuse.

**INHALATION:** This is an unlikely route of entry, but if victim has been exposed to vapours as a result of heating the product, remove immediately to fresh air. If breathing has stopped, a trained person should perform artificial respiration. Get medical attention immediately.

**INGESTION:** Do not induce vomiting. If conscious, dilute contents of stomach with 1 – 2 glasses of milk or water. If vomiting occurs naturally, have victim lean forward to avoid aspiration. Seek medical attention.

## 5. Fire Fighting Measures

<b>Flash point:</b>	Not applicable
<b>Autoignition temperature:</b>	Not applicable. See information under "Fire Fighting Instructions"
<b>Lower Explosive Limit:</b>	Not applicable
<b>Upper Explosion Limit:</b>	Not applicable
<b>Sensitivity to Impact:</b>	Not sensitive.
<b>Sensitivity to Static Discharge:</b>	Not sensitive.

**Hazardous Combustion Products:** Burning may produce carbon monoxide, carbon dioxide, nitrogen oxides, sulphur oxides, chromium compounds and other toxic substances.

**Extinguishing Media:** Use a means of extinguishing surrounding fire.

**Fire Fighting Instructions:** This product is an aqueous solution, and will not combust. There are no specific recommendations for this product.

## 6. Accidental Release Measures

**Personal Protection:** Use protective impervious rubber gloves and clothing to reduce the chance of skin contact. Splash proof chemical goggles should be worn at all times.

**Environmental Precautions:** Not expected to have any environmental impact.

**Cleanup Procedures:** Absorb onto sand or other inert absorbent media. Shovel into approved closable waste containers for disposal. Thoroughly flush residue with water.

## 7. Handling and Storage

**Handling Procedures:** Use in an adequately ventilated area. Keep container tightly closed when not in use. Avoid methods of use that will cause misting of product. Launder clothing before reuse. Wash face and hands thoroughly after handling and before eating, drinking, or using tobacco products.

**Storage:** Store in cool, dry place and in an upright position to prevent leakage.

## 8. Exposure Controls, Personal Protection

**Engineering Controls:** If used indoors, ensure adequate ventilation.

**Respiratory Protection:** If product is atomized, or heated to product vapours, use a NIOSH approved organic vapour respirator.

**Skin Protection:** Wear impervious gloves and clothing to prevent skin contact.

**Eye and Face Protection:** Chemical splash-proof goggles must be worn at all times.

**Other:** Eye wash station should be located near work area.

## 9. Physical and Chemical Properties

<b>Appearance:</b>	Brown coloured, thin watery liquid	<b>Melting Point:</b>	Not applicable.
<b>Odour:</b>	Sweet odour	<b>Boiling Point:</b>	≈ 100 °C
<b>pH:</b>	Not available.	<b>Critical Temperature:</b>	Not applicable.
<b>Vapour Pressure:</b>	Not available.	<b>Relative Density:</b>	≈ 1.00 (water = 1)
<b>Solubility:</b>	Soluble in water in all concentrations.	<b>Partition Coefficient:</b>	No data
<b>Vapour Density:</b>	As for water.	<b>Evaporation Rate:</b>	Not applicable.

## 10. Stability and Reactivity

**Chemical Stability:** Product is stable.

**Incompatibility:** Strong oxidizing agents.

**Hazardous Decomposition Products:** Carbon dioxide, carbon monoxide, nitrogen oxides, sulphur oxides, chromium compounds and other toxic substances

**Hazardous Polymerization:** Hazardous polymerization will not occur.

## 11. Toxicological Information

**Acute Exposure:** Theoretical oral LD<sub>50</sub> for the product is greater than 20 g/kg (oral/rat). The LD<sub>50</sub> (dermal) has not been determined.

<b>Chronic Exposure:</b>	See Section 3.
<b>Exposure Limits:</b>	See Section 2.
<b>Irritancy:</b>	See Section 3.
<b>Sensitization:</b>	See Section 3.
<b>Carcinogenicity:</b>	Not available
<b>Teratogenicity:</b>	Not available
<b>Reproductive toxicity:</b>	Not available
<b>Mutagenicity:</b>	Not available
<b>Synergistic products:</b>	None reported.

## 12. Ecological Information

**Environmental toxicity:** No data available.

**Biodegradability:** No data available.

## 13. Disposal Considerations

**Canadian Environmental Protection Act:** All ingredients are listed on the DSL. Dispose according to all local, provincial and federal requirements.

## 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:**

**Canadian Environmental Protection Act:** All ingredients are on the Domestic Substances List.  
**WHMIS Classification:** D2B

## 16. Other Information

**Original Preparation Date:** August 1, 2007

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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