



## MATERIAL SAFETY DATA SHEET

# Con-Spec Industries Ltd.

9525 - 63 Avenue  
Edmonton, Alberta  
T6E 0G2  
Bus: (780) 437-6136  
Fax: (780) 437-5242

### I. PRODUCT IDENTIFICATION

**PRODUCT NAME:** Con-Lith

**PRODUCT USE:** Concrete sealer and dustproofing

**WHMIS CLASSIFICATION:** D2B

**TDG SHIPPING NAME:**

**TDG CLASSIFICATION:** Not Regulated

**PIN #:** Not applicable

**PACKING GROUP:** Not applicable

**EMERGENCY RESPONSE TELEPHONE NUMBER:** CANUTEC (613) 996-6666

### II. HAZARDOUS INGREDIENTS

PRODUCT	CAS #	WT.%	TLV-TWA	LD <sub>50</sub>
Sodium Silicate	1344-09-8	15-30	Not available	Oral, Rat 1960 mg/Kg

### III. PHYSICAL DATA

**ODOUR AND APPEARANCE:** Clear, Odourless liquid

**PHYSICAL STATE:** Liquid

**SPECIFIC GRAVITY:** 1.2-1.4

**pH:** 11.3

**BOILING POINT:** Not available

**FREEZING POINT:** 0°C

**SOLUBILITY:** Misible in water

N/D = No Data    N/A = Not Available or Not Applicable

Con-Lith

**IV. FIRE OR EXPLOSION HAZARD**

**FLAMMABILITY:** Non-Flammable

**MEANS OF EXTINCTION:** Water Fog\_\_\_, Foam\_\_\_, CO<sub>2</sub>\_\_\_, Dry Chemical\_\_\_, Other\_\_\_.

**FLASH POINT AND METHOD:** Not Applicable

**FLAMMABLE LIMIT:**

**UPPER:** Not Applicable

**LOWER:** Not Applicable

**V. REACTIVITY DATA**

**CHEMICAL STABILITY:** The product is stable

**INCOMPATIBILITY WITH OTHER SUBSTANCES:**

Acid X, Base\_\_\_, Oxidizers\_\_\_, Water\_\_\_, Other\_\_\_.

**CONDITIONS OF REACTIVITY:** Reactive with acids, gels and generates heat. Flammable hydrogen gas may be produced on contact with aluminum, tin, lead, and zinc. May react with ammonium salt solutions resulting in evolution of ammonia gas.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Hydrogen

**VI. TOXICOLOGICAL PROPERTIES**

**EFFECTS OF OVEREXPOSURE:**

**INGESTION:** May cause irritation to mouth, esophagus and stomach. Causes digestive tract irritation.

**SKIN CONTACT:** Causes moderate skin irritation.

**INHALATION:** Mists may cause irritation of upper respiratory tract.

**EYE CONTACT:** Causes eye irritation.

**OTHER CHRONIC EFFECTS OF OVEREXPOSURE:**

Frequent ingestion over extended periods of time of gram quantities of silicates is associated with the formation kidney stones and other siliceous urinary calculi in humans. When tested for primary eye irritation potential according to OECD Guidelines, Section 405, this material produced corneal, iridal and conjunctival irritation. Some eye irritation was still present 14 days after treatment, although the average primary irritation score had declined from 19.7 after 1 day to 4.0 after 14 days.

When tested for primary skin irritation potential, this material produced irritation with a primary irritation index of 3 to abraded skin and 0 to intact skin. Human experience confirms that irritation occurs when this material gets on clothes at the collar, cuffs or other areas where abrasion may occur.

The acute oral toxicity of this product has not been tested. When sodium silicates were tested on a 100% solids basis, their single dose acute oral LD50 in rats ranged from 1500 mg/kg to 3200 mg/kg. The acute oral lethality resulted from nonspecific causes. This product contains approximately 18% sodium silicate.

Subchronic Data: In a study of rats fed sodium silicate in drinking water for three months, at 200, 600 and 1800 ppm, changes were reported in the blood chemistry of some animals, but no specific changes to the organs of the animals due to sodium silicate administration were observed in any of the dosage groups. Another study reported adverse effects to the kidneys of dogs fed sodium silicate in their diet at 2.4g/kg/day for 4 weeks, whereas rats fed the same dosage did not develop any treatment-related effects. Decreased numbers of births and survival to weaning was reported for rats fed sodium silicate in their drinking water at 600 and 1200 ppm.

**CARCINOGENICITY:** Not Listed

**TERATOGENICITY:** Not Available

**MUTAGENICITY:** Not Available

**REPRODUCTIVE TOXICITY:** Not Available

**PAGE 3 - MATERIAL SAFETY DATA SHEET**  
**Con-Lith**

**VII. FIRST AID MEASURES**

**EMERGENCY FIRST AID MEASURES:**

**EYE CONTACT:** Check for and remove any contact lenses. IMMEDIATELY flush eyes with running water for at least 15 minutes, keeping eyelids open. COLD water may be used. DO NOT use an eye ointment. Seek medical attention.

**SKIN CONTACT:** After contact with skin, wash immediately with plenty of water. Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Be particularly careful to clean folds, crevices, creases and groin. COLD water may be used. Cover the irritated skin with an emollient. If irritation persists, seek medical attention. Wash contaminated clothing before reusing. Chronic Contact: Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek medical attention.

**INGESTION:** Do not induce vomiting. Examine the lips and mouth to ascertain whether the tissues are damaged, a possible indication that the toxic material was ingested; the absence of such signs, however, is not conclusive. Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek immediate medical attention.

**INHALATION:** Remove person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, get immediate medical attention.

**VIII. PREVENTIVE MEASURES**

**PERSONAL PROTECTIVE EQUIPMENT:** Splash goggles. Lab coat. Vapour respirator. Be sure to use a MSHA approved respirator or equivalent. Gloves. Wear appropriate respirator when ventilation is inadequate.

**LEAK AND SPILL PROCEDURES:** Absorb with an inert dry material and place in an appropriate waste disposal container. Isolate hazard area and restrict access. Stop leak only if safe to do so. Prevent spilled material from entering sewers, confined spaces, drains, or waterways. Neutralize contamination area and flush with large quantities of water. Spilled material may cause floors and contact surfaces to become slippery.

**WASTE DISPOSAL:** Recycle if possible, Consult your local or regional authorities.

**HANDLING PROCEDURES AND EQUIPMENT:** Avoid contact with eyes, skin and clothing.

**STORAGE REQUIREMENTS:** Store between 0 and 95°C. Store in clean plastic containers.

**IX. PREPARATION INFORMATION**

**PREPARED BY:** Technical Service Department

**DATE:** December 7, 2011

**TELEPHONE:** (780) 437-6136