

## MATERIAL SAFETY DATA SHEET

### WHITEOUT

#### **SECTION 01: PRODUCT IDENTIFICATION**

|                                  |   |
|----------------------------------|---|
| <b>Product Identifier:</b>       | Anti-blush Thinner  |
| <b>WHMIS Classification:</b>     | B2, Flammable liquids, D2A, Very Toxic Materials, D2B Toxic Materials |
| <b>Product Use</b>               | Re-dissolver  |
| <b>Manufacturer's Name:</b>      | Concretech Inc., #106, 2567- 192 Street, Surrey, BC, V3S 3X1, Canada  |
| <b>Supplier's Name</b>           | Concretech Inc., #106, 2567- 192 Street, Surrey, BC, V3S 3X1, Canada  |
| <b>Preparation Date of MSDS:</b> | March 19 <sup>th</sup> , 2002   |
| <b>Revision Date of MSDS:</b>    | February 18 <sup>th</sup> , 2011                                      |
| <b>MSDS Prepared By:</b>         | Farhad Kazemian   |
| <b>Phone Number of Preparer:</b> | 1 604 210 1147  |
| <b>Emergency Phone Number</b>    | 1 888 503 6780  |

#### **SECTION 02: HAZARDOUS INGREDIENTS**

| <b>Ingredients:</b>  | <b>% by Weight</b> | <b>CAS#</b> | <b>LD/50</b>          | <b>TLV</b> | <b>Comments</b> |
|----------------------|--------------------|-------------|-----------------------|------------|-----------------|
| Xylene               | 40-50              | 1330-20-7   | 4300 mg/kg (Oral Rat) | 100 ppm    | UN 1307         |
| 1-Methoxy-2-propanol | 30-40              | 107-98-2    | 600 mg/kg (Oral Rat)  | 100 ppm    | UN 3092         |
| Ethyl Benzene        | 10-20              | 100-41-4    | 3500 mg/kg (Oral Rat) | 100 ppm    | UN 1175         |

#### **SECTION 03: HAZARDOUS IDENTIFICATION**

|                                  |   |
|----------------------------------|---|
| <b>Route of Entry:</b>           | Eye Contact, skin contact, inhalation, ingestion  |
| <b>Skin Contact:</b>             | Skin contact causes moderate skin irritation. Skin irritation signs and symptoms may include a burning sensation, redness, swelling and blisters.   |
| <b>Skin Absorption:</b>          | Xylene may be absorbed through the skin.  |
| <b>Eye Contact:</b>              | May cause irritation. May cause conjunctivitis, mild corneal injury or other tissue damage.   |
| <b>Inhalation:</b>               | The main effect of inhaling xylene vapor is depression of the central nervous system (CNS), with symptoms such as headache, dizziness, nausea and vomiting. Irritation of the nose and throat may also occur. High concentration may cause incoordination, loss of consciousness, respiratory failure and death.  |
| <b>Ingestion:</b>                | May be slightly toxic. Ingestion of large amounts of xylene is likely to cause CNS effects such as dizziness, nausea and vomiting. Aspiration into the lungs may occur during ingestion or vomiting, resulting in lung injury.  |
| <b>Emergency Overview:</b>       | Aspiration hazard! Small amounts aspirated into the lungs during ingestion or vomiting may cause lung injury, possibly leading to death.  |
| <b>WHMIS Symbols:</b>            |  Cladd B2  Class D2   |
| <b>Potential Health Effects:</b> | Reversible liver damage has been reported in cases of severe xylene exposure. Neurobehavioral effects such as impaired short term memory and reaction time and alteration in body balance have also been found in short term studies. Symptoms of aspiration into the lungs include coughing, gassing, choking, shortness of breath, bluish discolored skin, rapid breathing and heart rate. Chemical pneumonitis from aspiration may result in fever. Pulmonary edema or bleeding, drowsiness, confusion, coma and seizures may occur in more serious cases. Symptoms may develop immediately or as late as 24 hours after the exposure, depending on how much chemical entered the lungs. |

#### **SECTION 04: FIRST AID MEASURES**

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| <b>Skin Contact:</b> | Flush affected skin with gently flowing water for 20-60 minutes and remove contaminated clothing while rinsing. Wash contaminated skin with mild soap and water for 15 minutes. Obtain medical attention immediately. |
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| <b>Eye Contact:</b> | Flush eyes with gently flowing water for at least 15 minutes or until the chemical are removed, while holding the eyelids(s) open. Take care not to rinse the contaminated water into the unaffected eye or face. Seek immediate medical attention.  |
| <b>Inhalation:</b>  | If symptoms are experienced, remove source of contamination or move victim to fresh air. If symptoms persist, get medical attention. If the affected person is not breathing, apply artificial respiration. If breathing is difficult, give oxygen. It is preferred to administer oxygen under a doctor's supervision or advice. If the heart has stopped, trained personnel should begin cardiopulmonary resuscitation (CPR) immediately. Immediately medical assistance is required. |
| <b>Ingestion:</b>   | Seek immediate medical attention. DO NOT induce vomiting. Never give anything by mouth to an unconscious or convulsing person. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into the lungs. Administer artificial respiration if breathing has stopped. If the heart has stopped, trained personnel should begin cardiopulmonary resuscitation (CPR) immediately.  |

### SECTION 05: FIRE FIGHTING MEASURES

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| <b>Flammable (Yes / No)</b>                            | Yes  |
| <b>Yes-Under What Condition</b>                        | Any ignition source, sparks, extreme heat, open flames. Vapors form explosive mixtures between upper and lower flammable limits.   |
| <b>Means of Extinction</b>                             | Foam, dry chemical, carbon dioxide or any Class B extinguishing agent. Water may be unsuitable as an extinguishing media, but helpful in keeping adjacent containers cool.   |
| <b>Flash Point (°C / Method)</b>                       | 43 C (109 F) TCC   |
| <b>Upper Flammable Limit (% by Volume)</b>             | 7.0  |
| <b>Lower Flammable Limit (% by Volume)</b>             | 1.1  |
| <b>Autoignition Temperature (°C)</b>                   | 500 C (932 F)  |
| <b>Explosion Data- Sensitivity to Impact</b>           | NA   |
| <b>Explosion Data- Sensitivity to Static Discharge</b> | The product is sensitive to static discharges or other ignition sources at locations distant from the point of handling. All equipments must be grounded to avoid build up of static discharge.  |
| <b>Hazardous combustion Products</b>                   | Carbon Monoxide, other toxic vapors  |
| <b>Special Fire Fighting Procedures</b>                | Isolate and restrict area access. Stop leak only if safe to do so. Move containers from fire area if you can do it without risk. Fight fire from a safe distance and from a protected location. Use flooding quantities of water for fire and water spray or fog for vapors. Containers exposed to intense heat from fires should be cooled with water to prevent vapor pressure build-up which results in container rupture. This product may produce a floating fire hazard in extreme fire conditions. This product can produce flammable vapors which may travel to a source of ignition and flash back. |

### SECTION 06: ACCIDENTAL RELEASE MEASURES

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| <b>Leak and Spill Procedures</b> | Remove all sources of ignition. Wear protective equipment during cleanup. Ventilate area. Keep spectators away. Floor may be slippery. Contain spill with inert material or absorbent such as sawdust, vermiculite or sand. Do not allow material to enter drain or waterways. |
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### SECTION 07: HANDLING AND STORAGE

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| <b>Handling Procedures and Equipment</b> | Avoid breathing vapors. Do not get in eyes, on skin or on clothing. Use recommended personal protective equipment. Wash thoroughly with soap and water after using this product and before eating, drinking or smoking.   |
| <b>Storage requirements</b>              | Keep containers closed. Keep out of reach of children. Store in a cool, well-ventilated area away from oxidizing agents, other incompatible substances, and sources of ignition. Empty containers should be completely drained, properly bunged and properly disposed of. |

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### SECTION 08: EXPOSURE CONTROL / PERSONAL PROTECTION

|                                      |                      |  |
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| <b>Exposure Limit</b>                | <b>ACGIH</b>         | Xylene: 100 ppm TLV-TWA, 150 STEL  |
|                                      | <b>OSHA</b>          | 100 ppm TWA, 150 ppm STEL, 435 mg/m <sup>3</sup> TWA, 655 mg/m <sup>3</sup> STEL   |
|                                      | <b>Other</b>         | NA   |
| <b>Engineering Controls</b>          | <b>General</b>       | Electrical and mechanical equipments should be explosion proof.  |
|                                      | <b>Local Exhaust</b> | Local Exhaust ventilation as necessary to maintain exposure to within applicable limits.   |
|                                      | <b>Other</b>         | Firewater monitors and deluge systems are recommended.   |
| <b>Personal Protective Equipment</b> | <b>Gloves</b>        | Impervious gloves, Viton gloves, Nitrile gloves  |
|                                      | <b>Respirator</b>    | If exposure exceeds occupational exposure limits, use an appropriate NIOSH-approved respirator. Use a NIOSH-approved chemical respirator with organic vapor cartridges or use a NIOSH-approved supplied-air respirator.                        |
|                                      | <b>Eye</b>           | Chemical safety goggles and/or full face shield to protect eyes and face, if product is handled such that it could be splashed into eyes.  |
|                                      | <b>Footwear</b>      | NA   |
|                                      | <b>Clothing</b>      | Skin contact should be prevented through the use of suitable protective clothing, gloves and footwear, selected for conditions of use and exposure potential. Consideration must be given both to durability as well as permeation resistance. |
|                                      | <b>Other</b>         | Ensure that eyewash stations and safety showers are proximal to the work-station location.   |
| <b>Hazard Index</b>                  |                      |  |

### SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

|  |   |
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| <b>Physical State</b>                          | Liquid                                  |
| <b>Odor and Appearance</b>                     | Mild petroleum odor, transparent liquid |
| <b>Odor Threshold (ppm)</b>                    | NA                                      |
| <b>Specific Gravity (Water=1)</b>              | 0.88 g/cm <sup>3</sup>                  |
| <b>Vapor Density (air = 1)</b>                 | 3.5 kpa @ 38 C (100 F)                  |
| <b>Vapor Pressure (mmHg)</b>                   | 8.55 mmHg @ 20 C (68 F)                 |
| <b>Evaporation Rate</b>                        | 0.73 (ASTM D 3539)                      |
| <b>Boiling Point °C</b>                        | 117- 142 C ( 242- 288 F)                |
| <b>Freezing Point °C</b>                       | Not applicable                          |
| <b>Volatile % By Weight</b>                    | 100                                     |
| <b>PH</b>                                      | NA                                      |
| <b>Coefficient of Water / Oil Distribution</b> | NA                                      |
| <b>Solubility in Water</b>                     | Almost nil                              |

### SECTION 10: STABILITY AND REACTIVITY

|  |   |
|--|---|
| <b>Chemical Stability</b>                    | Stable  |
| <b>Incompatibility With Other Substances</b> | Do not mix with strong oxidizing agents, strong acids or bases, amines or halogens. |
| <b>Reactivity</b>                            | Not reactive  |
| <b>Hazardous Decomposition Products</b>      | Carbon Dioxide, Carbon Monoxide, Toxic Fumes.                                       |

### SECTION 11: TOXICOLOGICAL INFORMATION

|                                    |   |
|------------------------------------|---|
| <b>Effects on Acute Exposure</b>   | See Section 3                           |
| <b>Effects on Chronic Exposure</b> | See Section 3                           |
| <b>Irritancy of Product</b>        | This product can cause skin irritation. |

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| <b>Skin Sensitization</b>                     | Skin irritation signs and symptoms may include a burning sensation. See Section 3   |
| <b>Respiratory sensitization</b>              | See Section 3   |
| <b>Carcinogenicity</b>                        | The International Agency for Research on Cancer has evaluated ethyl benzene and classified it as a possible human carcinogen (Group 2B) based on sufficient evidence for carcinogenicity in experimental animals, but inadequate evidence for cancer in exposed humans.   |
| <b>Other Toxicity Information</b>             | Long term exposure of xylene may cause nervous system effects with symptoms such as headaches, irritability, depression, insomnia, agitation, extreme tiredness, tremors, impaired concentration and short term memory. The blood platelet count may be reduced on exposure to xylene which is reversible when exposure is stopped. Repeated contact can produce dermatitis (dryness and cracking). Chronic inhalation exposure to xylene causes mid-frequency hearing loss in laboratory animals. Reduced body weight was observed in male rats during one test. |
| <b>IARC (1,A2 or 2B)</b>                      | IARC Carcinogens = Group 3  |
| <b>ACGIH (A1, A2 or A3)</b>                   | ACGIH Carcinogens= A4- Not Classified as a Humans Carcinogen  |
| <b>Reproductive Toxicity</b>                  | Although abnormal sperm were observed after an interperitoneal injection in rats, xylene did not produce reproductive effects. An increase in menstrual disorders has been reported in women exposed to organic solvents but it is not possible to attribute this to xylene alone.  |
| <b>Teratogenicity</b>                         | Xylene has produced fetotoxic effects (delayed ossification and behavioral effects) in animals, in the absence of maternal toxicity.  |
| <b>Embryotoxicity</b>                         | One study found that significant fetal effects at doses that did not cause high maternal toxicity included reduced fetal weight and increased incidence of malformed fetuses. In other studies where rats and mice were exposed by inhalation or ingestion, harmful effects in the offspring (teratogenicity, embryotoxicity and/or fetotoxicity) were either not observed or were observed in the presence of significant harmful effects in the mothers.  |
| <b>Mutagenicity</b>                           | There have been a few studies investigating the mutagenic potential of xylenes. These studies (induction of sister chromatid exchanges and chromosomal aberrations in human lymphocytes (white blood cells)) were negative.   |
| <b>Name of Synergistic Products / Effects</b> | Xylene reacts synergistically with n-hexane to enhance hearing loss.  |

### SECTION 12: ECOLOGICAL INFORMATION

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| <b>Ecotoxicological Information</b> | <p><b>Xylene , Mixture of Isomers</b></p> <p><b>Ecotoxicity - Fish Species Data</b></p> <p>LC50 (Pimephales promelas) 13.4 mg/L</p> <p>LC50 (Lepomis macrochirus) 16.1 mg/L</p> <p>LC50 (Pimephales promelas) 26.7 mg/L</p> <p>LC50 (Oncorhynchus mykiss) 8.05 mg/L</p> <p><b>Other Information:</b></p> <p>Xylene Mobility: If product enters soil, it will be highly mobile and may contaminate groundwater. Floats on water. Persistence/degradability: Readily biodegradable. Oxidizes rapidly by photo-chemical reactions in air. Bioaccumulation: Does not bioaccumulate significantly. Other Adverse Effects: In view of the high rate of loss from solution, the product is unlikely to pose a significant hazard to aquatic life.</p> |
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### SECTION 13: DISPOSABLE CONSIDERATIONS

|                       |  |
|-----------------------|--|
| <b>Waste Disposal</b> | <p><b>Disposal of Waste Method:</b> Recover or recycle if possible. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste classification and disposal methods in compliance with applicable regulations. Disposal of all wastes must be done in accordance with municipal, provincial and federal regulations.</p> <p><b>Contaminated Packaging:</b> Empty containers retain product residue (liquid and/or vapor) and can be dangerous. Empty containers should be recycled or disposed of through an approved waste management facility.</p> |
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### SECTION 14: TRANSPORT INFORMATION

|                                     |   |
|-------------------------------------|---|
| <b>Special Shipping Information</b> | B2, Flammable liquids, D2A, Very Toxic Materials, D2B Toxic Materials |
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# CONCRETECH

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| <b>PIN</b>  | UN 1993, Class 3 Flammable Liquid, PG III,                              |
| <b>TDG</b>  | UN 1993, Class 3 Flammable Liquid, PG III,                              |
| <b>DOT</b>  | UN 1993, Class 3 Flammable Liquid, PG III, Reportable Quantity 100 lbs  |
| <b>ICAO</b> | UN 1993, Class 3 Flammable Liquid, PG III, IATA Label: Flammable Liquid |
| <b>ERAP</b> | NA  |

### **SECTION 15: REGULATORY INFORMATION**

|                             |   |
|-----------------------------|---|
| <b>WHMIS Classification</b> | B2, Flammable liquids, D2B, Materials causing other toxic effects   |
| <b>OSHA</b>                 | See Section 3 and 8   |
| <b>SARA</b>                 | Listed on SARA Hazard Class 311, 312  |
| <b>TSCA</b>                 | All components of this product are either on the Toxic Substances Act (TSCA) Inventory List or exempt.                              |
| <b>DSL</b>                  | All components of this product are either on the Domestic Substances List (DSL), the Non-Domestic Substances List (NDSL) or exempt. |

### **SECTION 16: OTHER INFORMATION**

|                               |  |
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| <b>Regulatory Information</b> |  |
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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. It is provided solely for the customer's consideration, and verification. Hereby specifically claims. It shall not be held liable for any damage resulting from handling or from contact with the above products.

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