



**COVERCRETE FLOORING SYSTEMS**

**MATERIAL SAFETY DATA SHEET**  
**COMPLYING with 91/55 EC**

**Date:** February 2002

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**Identification of Substance:**

**Reference:** PURC 1  
**Product Details:** Resin component for a Polyurethane Flooring System  
**Trade Name:** Aggregate Component for: Covercrete HD, SL, SLQ, V, TF, SLB  
**Manufacturer/Supplier:** Covercrete (Canada) Ltd.  
1150 Bayly St. Unit 27  
Pickering, On L1W 3W1  
Tel: (905) 420-0425  
Fax: (905) 420-0866

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**Composition/Data on Components:**

**Chemical Characterization**

**Description:** A blend of fine mineral aggregates and cement

**Dangerous Components:**

CAS No.	Designation	%	Index	R-phrases
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This product contains components, which are not classified as hazardous for labeling purposes.

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**Hazards Identification**

**Hazards Designation:**

**Information Pertaining to Particular Danger for Man and Environment:**

This product has a very low order of acute toxicity and does not represent a significant health hazard to users. The product does however contain components of an organic nature and the hazard assessment is based on a consideration of these components. Prolonged contact with skin and should be avoided as irritation may occur.

Avoid contact with eyes.

**Classification System:** The classification was made according to the EC-Lists, latest addition, company and literature data have also been used.

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**First Aid Measures:**

**General Information:** The actions below are those necessary for any chemical, which does not have any special medical effects. Contaminated clothing should be removed and washed before being re-tested.

**After Inhalation:** Remove the contaminated person to fresh air and allow to rest. In case of breathing difficulty or distress, seek medical attention.

**After Skin Contact:** Wash immediately with plenty of water and soap. Remove contaminated clothing. In case of persistent irritation or if a rash develops, seek medical attention.

**After Eye Contact:** Rinse immediately with plenty of water, continuing for 15 minutes and seek medical attention.

**After Swallowing:** Immediately rinse mouth with water and seek medical attention. If this is not immediately available, drink one or two pints of water. Do not induce vomiting.

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**Fire Fighting Measures:**

**Suitable Extinguishing Agents:**

Water, Dry Powder (BC-Powder) Foam, Carbon Dioxide.

**For safety reasons unsuitable extinguishing agents:**

Water with full jet.

**Special Hazards:**

May generate toxic, irritating or flammable combustion products

**Protective Equipment:**

Fire fighters wear full breathing apparatus

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**Person-related safety precautions:**

Avoid skin and eye contact. Wear goggles or a face shield impervious gloves and protective clothing. Use in well ventilated areas.

**Measures for environment protection:**

Do not allow product to reach sewage system or any watercourse. Prevent seepage into sewage system, work pits and cellars. Inform respective authorities, in case of seepage into watercourse or sewage system.

**Measures for cleaning/collecting:**

Contains spillages. Absorb with liquid binding material (sand, sawdust ). Dispose contaminated material as waste according to item 13. Ensure adequate ventilation.

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**Handling and Storage:**

**Handling**

**Information for Safe Handling:**

Ensure good ventilation/exhaustion at the workplace. Avoid dusting.

**Information pertaining to particular dangers for man and environment:**

**Storage:**

**Requirements to be met by storerooms and receptacles:**

Store in a cool location

**Information about storage in one common storage facility:**

Not Required

**Further information about storage conditions:**

Keep receptacle tightly sealed. Store in cool, dry conditions in well sealed receptacles.

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**Exposure Controls and Personal Protection:**

**Additional information about design of technical systems:**

**Components with limit values that require monitoring at the workplace:**

CAS No.	Designation of Material	%	Type	Value	Unit
85-68-7	Benzyl Butyl Phthalate	<20	OEL(Lt 8hr TWA)	5	mg/m3

**Additional Information:**

**Personal Protective Equipment:**

**General Protective and Hygienic Measures:**

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.  
Wash hands before breaks and at the end of the work.  
Avoid contact with eyes and skin.

**Breathing Equipment:**

Not normally required.

**Protection of hands:**

Solvent resistant gloves.

**Eye Protection:**

Solvent resistant goggles / glasses.

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**Physical and Chemical Properties:**

**Form:** Liquid

**Color:** Pigmented systems – various colors available

**Odor:** None

<b>Change in Condition</b>	<b>Value/Range</b>	<b>Unit</b>	<b>Method</b>
<b>Boiling Point/Boiling Range</b>			
<b>Flash Point:</b>	>200	C	Closed Cup
<b>Ignition Temperature:</b>			
<b>Self-Igniting:</b>	No Data		
<b>Danger of Explosion:</b>	No Data		
<b>Explosion Limits:</b>	No Data		
<b>Lower:</b>			
<b>Upper:</b>			
<b>Specific Gravity:</b>	1.02-1.14	g/cm3	
<b>Solubility in/miscibility with water:</b>			
<b>Viscosity</b>	0.5-4.0	Poise	
<b>Dynamic:</b>			
<b>Water Content:</b>	<25	%	
<b>Solids Content:</b>	>25	%	

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**Stability and Reactivity:**

**Thermal Decomposition/Conditions to be Avoided:**

No decomposition if used according to specifications.

**Dangerous Reactions:**

Not known

**Dangerous Products of Decomposition:**

Combustion can produce oxides of carbon.

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**Toxicological Information:**

**Acute Toxicity:**

LD/Lc50 values that are relevant for classification:

<b>Components</b>	<b>Type</b>	<b>Value</b>	<b>Species</b>
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**Primary Irritant Effect:**

**On the skin:** May cause skin irritation.

**On the Eye:** May cause eye irritation.

**Sensitization:** Unlikely to cause sensitization.

**Additional Toxicological Information:**

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**Ecological Information:**

**General Notes:**

Do not allow product to reach ground water, water course or sewage system. Although data is not available this product is not likely to have a harmful effect on fish or invertebrates.

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**Disposal Considerations:**

**Product:**

**Recommendation:** Must not be disposed of together with household garbage. Do not allow product sewage system. Burn in compliance with operative regulations in a hazardous waste incinerator.

**Uncleaned Packaging:**

**Recommendation:** Can be used again after cleaning. Dispose of washing solution in the same way as a product.

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**Transport Information:**

Not classified as dangerous goods according to CDGCPL regulations.

**Land transport ADR/RID**

**ADR/RID class:**

**HI Number:**

**UN-Number:**

**Maritime Transport IMDG**

**IMDG Class:**

**Page:**

**Packaging Group:**

**EMS Number:**

**MFAG:**

**Air Transport ICAO-TI and IATA-DGR:**

**ICAO/IATA Class:**

**UN/ID Number:**

**Packaging Group:**

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**Regulations:**

**Markings according to EC Guidelines:**

In accordance with ED Directives/Ordinance on Hazardous materials, this product, is not classified as hazardous for labeling purposes.

**Code Letter and Hazard Designation of Product:**

Hazard-determining components for labeling:

Risk Phrases:

Safety Phrases:

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Other Information:

**THIS INFORMATION IS BASED ON OUR PRESENT KNOWLEDGE. HOWEVER, THIS SHALL NOT CONSTITUTE A GUARANTEE FOR ANY SPECIFIC PRODUCT FEATURES AND SHALL NOT ESTABLISH A LEGALLY VALID CONTRACTUAL RELATIONSHIP.**

Department issuing MSDS:

Contact: Bill Hamilton.

1-800-267-4425

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## Covercrete Flooring Systems

Material Safety Data **MSDS**

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### EMERGENCY CONTACTS

Spills, Leaks, Fire, or Exposure Call Chemtrec: (800) 424-9300

Medical Emergency Information: (800) 328-8501

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### SECTION 1 – CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

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**Product Name:** RUBINATE® 9041 / PART 2 FOR COVERCRETE HD, SL, SLB, V, TF

**Product Use:** Component of Polyurethane.

**Company:**

Covercrete (Canada) Ltd.

1150 Bayly St. Unit 27.  
Pickering, On L1W 3W1  
Tel: (905) 420-0425  
Fax: (905) 420-0866

For Polyurethane's product information/assistance 1-800-267-4425  
West Deptford (800)257-5547 Auburn Hills: (800)553-8624  
Canadian Office: (905)678-9150

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## SECTION 2- COMPOSITION / INFORMATION ON INGREDIENTS

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HAZARDOUS INGREDIENT(S)	% (w/w)	ACGIH TLV	CAS NO.
Polymeric Diphenylmethane Diisocyanate (polymeric MDI)	100	Not Listed	9016-87-9
CONTAINS: 4,4'-Diphenylmethane Diisocyanate (4,4' MDI) (Approx. 52%)		0.005 ppm	101-68-8
MDI isomers/oligomers		Not listed	9016-87-9

This material is classified as hazardous under OSHA Hazard Communication Standard (29 CFR 1910.1200).

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## SECTION 3 – HAZARDS IDENTIFICATION

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### EMMERGENCY OVERVIEW

**HEALTH HAZARDS:** Irritating to eyes, respiratory system and skin. Inhalation at levels above the occupational exposure limit could cause respiratory sensitization and risk of serious damage to respiratory system. The onset of the respiratory symptoms may be delayed for several hours after exposure. A hyper-reactive response to even minimal concentrations on MDI may develop in sensitized persons. Sensitized persons should not be exposed to any mixture containing un-reacted MDI.

**Physical Hazards:** Reacts slowly with water to produce carbon dioxide, which may rupture closed containers. This reaction accelerates at higher temperatures.

**Appearance:** Dark brown, viscous liquid.

**Odor:** Slightly musty

Read the entire MSDS for a more thorough assessment of the hazard information on this product.

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## SECTION 4 – FIRST AID MEASURES

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**General:** In case of accident or if you feel unwell, seek medical advice IMMEDIATELY (show the label where possible).

**Inhalation:** Remove patient from exposure, keep warm at rest. Obtain medical attention.

Treatment is symptomatic for primary irritation or difficulty in breathing. If breathing is labored, qualified personnel should administer oxygen. Apply artificial respiration if breathing has ceased or shows signs of failing.

**Skin Contact:** Remove contaminated clothing. Immediately wash affected areas thoroughly with soap and water. Some organic materials such as corn oil or propylene glycol are effective in decontaminating MDI from the skin when applied immediately. If irritation, redness, or a burning sensation, develops and persists, obtain medical advice. Contaminated clothing should be thoroughly cleaned before reuse.

**Eye Contact:** Immediately flush eyes with running water for a minimum of 15 minutes. Hold eyelids open during flushing. If irritation persists, repeat flushing. Obtain medical attention IMMEDIATELY.

**Ingestion:** DO NOT induce vomiting. Provided the patient is conscious, wash out mouth with water then give 1 or 2 glasses of water to drink. Refer person to medical personnel for immediate attention.

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## SECTION 5 – FIRE-FIGHTING MEASURES

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**Fire and Explosion Hazards:** Containers may burst under intense heat. Due to reaction with water, a hazardous build-up of pressure could result if contaminated containers are re-sealed.

**Extinguishing Media:** Water, carbon dioxide, dry chemical, or appropriate foam. If water is used, very large quantities are required. Reaction between water, and hot isocyanate may be vigorous. Contain run-off water with temporary barriers.

**Fire Fighting Procedures:** As appropriate for surrounding materials/equipment.

**Fire Fighting Protective Equipment:** Use self-contained breathing apparatus and full protective clothing (Bunker gear).

**Flash Point:** 425°F (218°C) (COC)

**Flammable Limits (Lower):** Not available

**Flammable Limits (Upper):** Not available

**Auto Ignition Temperature:** 240°C (464°F) (4,4'-Diphenylmethane Diisocyanate)

**Decomposition Temperature:** 646°F (341.1°C)

**Rate of Burning:** Not available

**Explosive Power:** None

**Sensitivity to Mechanical impact:** None

**Sensitivity to Static Discharge:** None.

**Combustion:** Carbon monoxide, carbon dioxide, nitrogen oxides, and some HCN

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## SECTION 6 – ACCIDENTAL RELEASE MEASURES

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For major spills call Chemtrec (800-424-9300)

**Spills, Leaks, or Releases:** Clean up should only be performed by trained personnel. People dealing with major spillages should wear full protective clothing including appropriate respiratory protection. Evacuate the area. Prevent further leakage, spillage or entry into drains.

Contain and absorb large spillages onto in inert, non-flammable adsorbent carrier (such as earth or sand). Shovel into open-top drums or plastic bags for further decontamination, if necessary. Wash the spillage area clean with liquid decontaminant. Test atmosphere for MDI. (See Section 13 for disposal considerations.) Notify applicable government authorities if release is reportable. The CERCLA RQ for MDI is 5,000 lbs (see CERCLA in Section 15).

**Preparation of Decontamination Solution:** Prepare a decontamination solution of 0.2-0.5% liquid detergent and 3-8% concentrated ammonium hydroxide in water (5-10% sodium carbonate may be substituted for the ammonium hydroxide). Follow the precautions on the supplier's Material safety data sheets when preparing and using solution.

**Use of Decontamination Solution:** Allow deactivated material to stand for at least 30 minutes before shoveling into drums. Do not tighten the bungs. Mixing with wet earth is also effective, but slower.

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## SECTION 7 – HANDLING AND STORAGE

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**Handling:** Avoid personal contact with the product or reaction mixture. Use only with adequate ventilation to ensure that the occupational exposure limit is not exceeded. The efficiency of the ventilation system must be monitored regularly because of the possibility of blockage. Avoid breathing aerosols, mists and vapors. (See section—Exposure Control for details.)

**Storage Requirements:** Keep containers properly sealed and when stored indoors, in a well-ventilated area. Keep contents away from moisture. Due to reaction with water producing CO<sub>2</sub>-gas a hazardous build up of pressure could result if contaminated containers are resealed. Do not reseal contaminated containers. Uncontaminated containers, free of moisture, may be resealed only after placing under a nitrogen blanket. Do not store in containers made of copper, copper alloys, copper alloys or galvanized surfaces.

**Storage Temperature:** Ideal storage temperature is 16-38°C (60-100°F)

Keep stocks of decontaminated (See Section 6) readily available.

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## SECTION 8 – EXPOSURE CONTROL / PERSONAL PROTECTION

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### PREVENTIVE MEASURES:

Conditions of use, adequacy of engineering or other control measures, and actual exposures will dictate the need for specific protective devices at your workplace.

**Engineering Controls:** Use local exhaust ventilation to maintain airborne concentrations below the TLV. Suitable respiratory equipment should be used in cases of insufficient ventilation or Where operational procedures demand it. For guidance on engineering control measures, refer to as the ACGIH current edition of “Industrial Ventilation, a Manual of Recommended Practice.” publications such

### Personal Protective Equipment:

**Eye Protection:** Chemical safety goggles. If there is a potential for splashing use a full face shield.

**Skin Protection:** The following protective materials are recommended:  
Gloves – neoprene, nitrile rubber, butyl rubber. Thin latex disposable gloves should be avoided for repeated or long-term use.  
Protective clothing should be selected and used in accordance with “Guidelines for the Selection Of Chemical Protective Clothing” published by ACGIH.

**Respiratory Protection:** When the product is sprayed or heated without adequate ventilation, an approved MSHA/NIOSH positive-pressure, supplied air respiratory may be required. Air Purifying respirators equipped with organic vapor cartridges and a HEPA (P100) particulate filter may be used under certain conditions when a cartridge change-out schedule has been developed in Accordance with OSHA respiratory protection standard (29 C.F.R. 1910.134).

### EXPOSURE GUIDELINES:

Medical supervision of all employees who handle or come in contact with respiratory sensitizers is recommended. Persons with respiratory problems including asthmatic-type conditions, chronic bronchitis, other chronic respiratory diseases or recurrent skin eczema or skin allergies should be evaluated for their suitability of working with this product. Once a person is diagnosed as sensitized, no further exposure to the material that caused the sensitization should be permitted.

## HAZARDOUS INGREDIENT(S):

### 4,4'-Diphenylmethane Diisocyanate:

ACGIH TLV	0.05mg/M <sup>3</sup> (8-hour, 40 hours / week)
OSHA PEL CEILING	0.20mg/M <sup>3</sup>
NIOSH REL/TWA	0.05mg/M <sup>3</sup> (10-hour, 40 hours / week)
NIOSH REL/CEILING	0.20mg/M <sup>3</sup> (10 – minute)

NOTE: The Occupational Exposure Limits listed for isocyanates do not apply to previously sensitized individuals.

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## SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

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**Alternate Name(s):** Polymeric MDI

**Chemical Name:** Not applicable (mixture).

**Chemical Family:** Diisocyanate.

**Molecular Formula:** Not applicable (mixture)

**Appearance:** Dark brown, viscous liquid

**Odor:** Slightly musty.

**Odor Threshold:** 4.0mg/M<sup>3</sup> (4,4'- Diphenylmethane Diisocyanate)

**pH:** Not applicable

**Flash Point:** 425°F (218°C) (COC)

**Vapor Pressure (mm Hg at 20°C):** Approx. 4x10<sup>-6</sup>

**Vapor Density (Air=1):** 8.5

**Boiling Point:** Not applicable

**Melting Point:** Not available

**Solubility (Water):** (Reacts with water)

**Solubility (Other):** Soluble in most organic solvents.

**Specific Gravity:** 1.2

**Evaporation Rate:** Not available.

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## SECTION 10 – STABILITY AND REACTIVITY

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**Hazardous Decomposition Products:** Highly unlikely under normal industrial use. See section

5.

**Chemical Stability:** Stable at room temperature.

**Conditions to Avoid:** Avoid high temperatures. Avoid freezing.

**Incompatibility with other substances:** This product will react with any materials containing active hydrogen's such as water, alcohol, amines, bases and acids. The reaction with water is very slow less than 50°C (122°F) but is accelerated at higher temperatures.

**Hazardous Polymerization:** Polymerization may occur at elevated temperatures in the presence of alkalis, tertiary amines and metal compounds.

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## SECTION 11 – TOXICOLOGICAL INFORMATION

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### Polymeric MDI:

Oral LD50 (rat) > 5,000 mg/kg

Dermal LD50 (rabbit) > 5,000 mg/kg

Inhalation LC50 (rat) = 490mg/M<sup>3</sup> (4 hours exposure to respirable aerosol )

### POTENTIAL HEALTH EFFECTS:

**Inhalation:** This product is a respiratory irritant and potential sensitizer. Inhalation of vapor or aerosol at levels above the occupational exposure limit could cause respiratory sensitization and lung injury. Symptoms may include irritation to the eyes, nose, throat, and lungs, possibly combined with dryness of the throat, tightness of chest, and difficulty in breathing, and/or flu-like symptoms. The onset of the respiratory symptoms of may be delayed for several hours after exposure. A hyper-reactive response to even minimal concentrations of MDI may develop in sensitive persons. In a single evaluation of 5 men occupationally exposed to MDI and hydrocarbon solvent vapor under conditions where adequate ventilation or other safety precautions were not used, neuropsychological findings were attributed to MDI.

**Skin Contact:** Moderate irritant. Repeated and / or prolonged contact may cause skin Sensitization. There is limited evidence from animal studies that skin contact may play a role in Respiratory sensitization. These results emphasize the need for protective clothing including gloves to be worn at all times when handling these chemicals or in maintenance work.

**Eye Contact:** The aerosol, vapor, or liquid will irritate human eyes following contact.

**Ingestion:** Ingestion may cause irritation of the gastrointestinal tract. Based on the acute oral LD50, this product is considered practically non-toxic by indigestion.

**Chronic Effects:** A study was conducted where groups of rats were exposed for 6 hours /day, 5 days/week for a lifetime to atmospheres or respirable polymeric MDI aerosol at concentrations of 0, 0.2, 1 or 6 mg/M<sup>3</sup>. No adverse effects were observed at 0.2mg/M<sup>3</sup>. At the 1 mg/M<sup>3</sup> concentration, minimal nasal, and lung irritant effects were seen. Only at the top concentration (6.0mg/M<sup>3</sup>) was there an increased incidence of a benign tumor of the lung (adenoma). One malignant pulmonary tumor (Aden carcinoma) was seen in the 6.0 mg/M<sup>3</sup> group. MDI administration to rats in this study did not change the distribution of and incidence of lung tumors is associated with prolonged respiratory irritation and the concurrent accumulation of yellow material in the lung. In the absence of prolonged exposure to high concentrations leading to chronic irritation and lung damage, it is highly unlikely that tumor formation will occur.

There are reports that excessive chronic exposure to diisocyanates may result in permanent decrease in lung function.

**Carcinogenicity:** The ingredients of this product are not classified as carcinogenic by ACGIH or IARC, not regulated as carcinogens by OSHA, and not listed as carcinogens by NTP.

**Mutagenicity:** No birth defects were seen in two independent animal (rat) studies. Fetotoxicity, was observed at doses that were extremely toxic (including lethal) to the mother. Fetotoxicity, was not observed at doses that were not maternally toxic. The doses used in these studies were maximal, respirable concentrations well in excess of the defined occupational limits.

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## SECTION 12 – ECOLOGICAL INFORMATION

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**Environmental Fate and Distribution:** It is unlikely that significant environmental exposure in the air or water will arise, based on consideration of the production and use of the substance.

**Persistence and Degradation:** Immiscible with water, but will react with water to produce inert and non-biodegradable solids.

**Toxicity:** Polymeric MDI

LC50 (Zebra Fish) > 1000mg/l (At the highest level tested of 1000 mg/l there were no deaths.)

EC50 (Daphnia Magna) (24 hour) > 1000mg/l

EC50 (Ecolab) >100 mg/l

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## SECTION 13 – DISPOSAL CONSIDERATIONS

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The generation of waste should be avoided or minimized wherever possible.

Disposal should be in accordance with local, state, provincial or national regulations. This material is not a hazardous waste under RCRA 40 CFR 261. Small quantities should be treated with a decontaminant solution (See Section 6). The treated waste is not a hazardous material under RCRA 40 CFR 261. Chemical waste, even small quantities, should never be poured down drains sewers or waterways.

Empty containers should be decontaminated and either passed to an approved drum recycler or destroyed.

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## SECTION 14 – TRANSPORT INFORMATION

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**DOT:** Single containers less than 5,000 lbs. are not regulated. Single containers with 5,000 lbs. or more of 4,4'-MDI are regulated as: Other Regulated Substances, Liquid, N.O.S. (Methylene Diphenyl Diisocyanate), 9, NA3082, PGIII, RQ.

**Transportation Emergency Telephone Number:** 1-800-424-9300 (Chemtrec)

**TDG:** Not Regulated.

**IMO:** Not Regulated

**IATA/ICAO Class:** Not Regulated

## SECTION 15 – REGULATORY INFORMATION

**USA CLASSIFICATION:**

**OSHA Classification:** This product is classified as a hazardous material under the Criteria outlined in the OSHA Hazard Communication Standard (HCS) (29 CFR 1910 1200)

**TSCA (Toxic Substances Control Act) Regulations:** All ingredients are on the TSCA Chemical Substance Inventory.

**EPCRA Section 313 (40 CFR 372):** This product contains the following chemical(s) subject to reporting requirements: 100% Diisocyanate compounds (Category Code N120)

**CERCLA (Comprehensive Environmental Response, Compensation and Liability Act):** 4,4'-Methylene diphenyl diisocyanate (CAS 101-68-8) has a 5,000 lb. RQ (reportable quantity). Any spill or release above the RQ must be reported to the National Response Center (800-424-8802). The % of 4,4'-MDI in this product is listed in Section 2 of the MSDS.

This product does not contain nor is it manufactured with ozone depleting substances.

**Other Regulations/Legislation which apply to this product:** Massachusetts Right-to-Know, Pennsylvania Right-to-Know, New Jersey Right-to-Know, CERCLA

## CANADIAN CLASSIFICATION

This product has been classified in accordance with the hazard criteria of the CPR (Controlled Products Regulations) and this MSDS (Material Safety Data Sheet) contains all the information required by the CPR.

**Controlled Product Regulations (WHMIS) Classification: D-1A; D-2A, and D-2B.**

**CEPA / Canadian Domestic Substances List (DSL):** The substance(s) in this product is/are on the Canadian Domestic Substances List (CEPA DSL).

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## SECTION-OTHER INFORMATION

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**Glossary:** ACGIH – American Conference of Governmental Industrial Hygienists  
IARC - International Agency for Research on Cancer  
NTP- National Toxicology Program  
OSHA- Occupational Safety and Health Administration

**For Your Protection:** Huntsman Polyurethane's warrants only that its products meet the specifications stated in the sales contract. Typical properties, where stated, are to be considered as representative of current production and should be treated as specifications. While all the information presented in this document is believed to be reliable and to represent the best available data on these products, NO GUARANTY, WARRANTY, OR REPRESENTATION IS MADE, INTENDED, OR IMPLIED AS TO THE CORRECTNESS, OR SUFFICIENCY OF ANY INFORMATION, OR AS TO THE MERCHANTABILITY OR SUITABILITY OR FITNESS OF ANY CHEMICAL COMPOUNDS OR OTHER PRODUCTS FOR ANY PARTICULAR USE OR PURPOSE, OR THAT ANY CHEMICAL COMPOUNDS OR OTHER PRODUCTS OR THE USE THEREOF ARE NOT SUBJECT TO A CLAIM BY A THIRD PARTY FOR INFRINGEMENT OF ANY PATENT OR OTHER INTELLECTUAL PROPERTY RIGHT. THE USER SHOULD CONDUCT SUFFICIENT INVESTIGATION TO ESTABLISH THE SUITABILITY OF ANY PRODUCT FOR ITS INTENDED USE. Liability of Huntsman Polyurethane's for all claims, whether arising out of breach of warranty, negligence, strict liability, or otherwise, is limited to the purchase price of the material. Products may be toxic and require special precautions in handling. For all products listed, the user should obtain detailed information on the toxicity, together with proper shipping, handling, and storage procedures, and comply with all applicable safety and environmental standards. Toxicity and risk characteristics of chemical compounds and other products may differ when used with other materials or in a manufacturing or other process. Those risk characteristics should be determined by the user and made known to handlers, processors, and end users.

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**MATS Number:**

**MATS Index:**

**Prepared By: Polyurethane's Applied Toxicology / Regulatory Services (856)423-8484**

**Information Assistance contact:**

# COVERCRETE FLOORING SYSTEMS

ATTN: Technical Dept.  
1550 Bayly Street, Unit 27  
Pickering, Ontario, L1W 3W1  
Canada  
1-800-267-4425

## MATERIAL SAFETY DATA SHEET Complying with 91/155 EC

Date: February 2002

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### Identification of Substance:

**Reference:** RFA 4

**Product Details:** Filler component for a Polyurethane Flooring System

**Trade Name:** Aggregate Component for: Covercrete HD, SL, SLQ, V, TF, SLB

**Manufacturer/Supplier:** Covercrete (Canada)Ltd  
1550 Bayly St. Unit 27  
Pickering, On L1W 3W1  
Tel: (905) 420-0425  
Fax: (905) 420-0866

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### 2) Composition/Data on Components:

## Chemical Characterization

**Description:** A blend of fine mineral aggregates and cement

### Dangerous Components:

CAS No.	Designation	%	Index	R-Phrases
65997-15-1	Portland Cement	<20	Xi	R36/38

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### 3) Hazards Identification

**Hazards Designation:** Xi –

Irritant

**Information Pertaining to Particular Danger for Man and Environment:**

R36/38 – Irritating to Eyes and Skin.

**Classification System:** The classification was made according to the EC-Lists, latest addition, company and literature data have also been used.

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## **4) First Aid Measures**

**General Information:**

**After Inhalation:** Remove the contaminated person to fresh air and allow to rest. In case of breathing difficulty or distress, seek medical attention.

**After Skin Contact:** Wash immediately with plenty of water and soap. Remove contaminated clothing. In case of persistent irritation, or if a rash develops, seeks medical attention.

**After Eye Contact:** Rinse immediately with plenty of water, continuing for 15 minutes and seek medical attention.

**After Swallowing:** Immediately rinse mouth with water and seek medical attention. If this is not immediately available, drink on or two pints of water. Do not induce vomiting.

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## **5 Fire Fighting Measures**

**\*Not Classified as Flammable\***

**Suitable Extinguishing Agents:**

Water, Dry Powder (BC – Powder) Foam, Carbon Dioxide.

**For safety reasons unsuitable extinguishing agents:**

No Restrictions

**Special Hazards:**

None

**Protective Equipment:**

Suitable Respiratory Protection.

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## **6 Accidental Release Measures:**

**Person-related safety precautions:**

Avoid skin and eye contact

Do not breathe dust

**Measures for Environmental Protection:**

**Measures for cleaning/disposal:**

Transfer to suitable container for disposal.

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## **7 Handling and Storage**

**Handling**

**Information for Safe Handling:**

Ensure good ventilation/exhaustion at the work place.  
Avoid dusting.

**Information pertaining to particular dangers for man and environment:**

**Storage**

**Requirements to be met by storerooms and receptacles:**

Store in a cool location in sealed packs. Keep away from moisture.

**Information about storage in one common storage facility:**

Not Required

**Further information about storage conditions:**

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**8 Exposure Controls and Personal Protection:**

**Additional information about design of technical systems:**

**Components with limit values that require monitoring at the workplace:**

<b>CAS No.</b>	<b>Designation of Material</b>	<b>%</b>	<b>Type</b>	<b>Value</b>	<b>Unit</b>
65997-15-1	Portland Cement		<20		
	Total Inhalable				OEL(LTE 8hr TWA) 10 mg/m-3
	Respirable Dust				OEL 5 mg/m-3
1317-65-3	Calcium Hydroxide		<2		
	Total Inhalable Dust				OEL (ITE 8hr TWA) 10mg/m-3
	Respirable Dust				MEL 5 mg/m-3

**Additional Information:**

**Personal Protective Equipment:**

**General Protective and Hygienic Measures:**

Keep away from foodstuffs, beverages, and feed

Avoid breathing dust

Wash hand before breaks and at the end of work

**Breathing Equipment:**

Not normally required

**Protection of Hands:**

Protective gloves

**Eye Protection:**

Safety goggles

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**9) Physical and Chemical Properties**

**Form:** Solid

**Color:** None

**Odor:** None

**Change in Condition:**

**Value/Range**                      **Unit**    **Method**  
N/A

<b>Boiling Point/Boiling Range:</b>	N/A	
<b>Flash Point:</b>	N/A	
<b>Ignition Temperature</b>	No Data	
<b>Self-Igniting:</b>	No Data	
<b>Explosion Limits</b>	No Data	
<b>Lower:</b>		
<b>Upper:</b>		
<b>Specific Gravity:</b>	No Data	
<b>Solubility in/ Miscibility with water</b>	Insoluble	
<b>Viscosity:</b>	N/A	
<b>Dynamic:</b>		
<b>Solvent Content:</b>		
<b>Solids Content:</b>	>98.5	%

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**10) Stability and Reactivity:**

**Thermal Decomposition/Conditions to be Avoided:**

None Known

**Dangerous Reactions:**

**Dangerous Products of Decomposition:**

None Known

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**11) Toxicological Information:**

**Acute Toxicity:**

LD/Lc50 values that are relevant for classification:

<b>Components</b>	<b>Type</b>	<b>Value</b>	<b>Species</b>
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**Primary Irritant Effect:**

**On Inhalation:** High concentrations of dust may be an irritant to the respiratory tract.

**On the skin:** Irritant to skin.

**On the eye:** Irritating effect

**Sensitization:** Unlikely, except under conditions of repeated/prolonged exposure

**Additional Toxicological Information:**

Repeated exposure by inhalation to level well above the occupational exposure limit produces adverse effects on the lungs.

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**12) Ecological Information**

**General Notes:**

Not expected to have any adverse effects on the environment.

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**13) Disposal Considerations:**

**Product:**

**Recommendation:** Disposal should be in compliance with local and/or national legislation. Bury on authorized landfill site or burn in accordance to operative regulations in a waste incinerator.

**Unclean Packaging:**

**Recommendation:** Dispose of as above.

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**14) Transport Information:**

Not classified as hazardous for transport.

**Land transport ADR/RID**  
**ADR/RID**  
**HI Number:**  
**UN-Number:**

**Maritime Transport IMDG**  
**IMDG Class:**  
**Page:**  
**Packaging Group:**  
**EMS Number:**  
**MFAG:**

**Air Transport ICAO-TI and IATA-DGR:**  
**ICAO/IATA Class:**  
**UN/ID Number:**  
**Packaging Group:**

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**15) Regulations:**

**Markings according to EC Guidelines:**

This product has been classified and marked in accordance with EC Directive/Ordinance on Hazardous materials.

**Code Letter and Hazard Designation of Product:**

Xi-Irritant

**Hazard-determining components for Labeling:**

Portland Cement

**Risk Phrases**

R36/38 – Irritating to the eyes and skin

**Safety Phrases:**

S26-In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S28-In case of contact with skin, wash immediately with plenty of water.

S36/37/39 – Wear suitable gloves, suitable protective clothing and eye/face protection.

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**16) Other Information:**

**THIS INFORMATION IS BASED ON OUR PRESENT KNOWLEDGE. HOWEVER, THIS SHALL NOT CONSTITUTE A GUARANTEE FOR ANY SPECIFIC PRODUCT FEATURES AND SHALL NOT ESTABLISH A LEGALLY VALID CONTRACTUAL RELATIONSHIP.**

**Department Issuing MSDS:**

Contact: Bill Hamilton

1-800-267-4425