

SDS
Revised October 8th, 2017

SAFETY DATA SHEET

SECTION 1: IDENTIFICATION

PRODUCT NAME: UTILIBOND

MANUFACTURER/SUPPLIER: Utilicor Technologies Inc.
49 Sheffield Street
Toronto, Ontario Canada M6M 3E5

24 HOUR EMERGENCY NUMBER: 1-888-572-6666

APPLICATION AND USE: A Non-Shrink Bonding Compound for use in permanently replacing pavement cores.

PRODUCT DESCRIPTION: Fast setting high strength waterproof cementitious bonding agent.

SECTION 2: HAZARDS IDENTIFICATION

GHS CLASSIFICATION Skin irritation (Category 2); Serious eye damage (Category 1); Carcinogenicity (Category 1A-Inhalation); Specific target organ systemic toxicity-single exposure (Category 3- Respiratory system); Specific target organ systemic toxicity-repeated exposure (Category 1-Lungs)



SIGNAL WORD **DANGER**

HAZARD STATEMENTS H315 Causes skin irritation
H318 Causes serious eye damage
H335 May cause respiratory irritation
H350 May cause cancer by inhalation
H372 Causes damage to organs (Lungs) through prolonged or repeated exposure

PRECAUTIONARY STATEMENTS

Prevention P202 Do not handle until all safety precautions have been read and understood
P260 Do not breath dust
P264 Wash skin thoroughly after handling
P270 Do not eat, drink or smoke when using this product
P271 Use only outdoors or in a well-ventilated area
P280 Wear protective gloves/ eye protection/face protection
P281 Use personal protective equipment as required

Response P302+P352 IF ON SKIN: wash with plenty of soap and water
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313 IF exposed or concerned: Get medical advice/ attention
P310 Immediately call a POISON CENTER/ doctor
P332+P313 If skin irritation occurs: Get medical advice/ attention
P362 Take off contaminated clothing and wash before reuse

SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Ingredients	%	C.A.S. #	LD/50, Route, Species	LC/50, Route, Species
Silica Sand ** (Quartz)	40-70	14808-60-7	>5,000mg/kg (Oral-Rat)	Not Available
Portland Cement (Hydraulic Cement)	30-60	65997-15-1	Not Available	Not Available
Carbon Black	0.1- 1.0	1333-86-4	>15,400mg/kg (Oral-Rat)	>3,000mg/kg(Dermal-Rabbit)

**The sand used in this product contains approximately 85% (by weight) Quartz. The Quartz that exists as dust particles, with aerodynamic diameter less than 5 microns, is hazardous. An approved dust mask (for crystalline silica) should be worn by workers handling this product in the dry state.

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SECTION 4 : FIRST-AID MEASURES

FIRST-AID MEASURES

EYE CONTACT Flush eyes with lukewarm water for at least 15 minutes holding eye lids open. If irritation persists see a physician.

SKIN CONTACT Wash with soap and water and remove contaminated clothing. Wash clothing separately prior to reuse. If irritation persists, get medical attention.

INHALATION Remove victim to fresh air. Consult a physician after significant exposure.

INGESTION If swallowed, **DO NOT** induce vomiting. Rinse mouth and call a physician or poison control centre immediately. Never give anything by mouth to an unconscious person. Obtain medical attention.

SYMPTOMS AND EFFECTS

EYE CONTACT Mild irritation and discomfort, may cause excessive lachrymation or serious eye damage.

SKIN CONTACT Irritation may occur. Prolonged or repeated contact may result in skin sensitization and dermatitis.

INHALATION Prolonged inhalation may result in respiratory irritation, coughing. May cause cancer by inhalation.

CHRONIC May cause damage to organs through prolonged or repeated exposure.

SECTION 5: FIRE-FIGHTING MEASURES

FLAMMABILITY CLASSIFICATION Not flammable or combustible

SENSITIVITY OF STATIC DISCHARGE..... N/A

EXTINGUISHING MEDIA This product will not burn. Use the medium appropriate to the surrounding fire.

SPECIAL FIRE FIGHTING PROCEDURES..... Wear self-contained breathing apparatus and protective clothing if necessary. Use self-contained breathing apparatus and protective clothing for large fires.

HAZARDOUS COMBUSTION PRODUCTS None.

SECTION 6: ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS Use personal protective equipment. Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation.

ENVIRONMENTAL PRECAUTIONS Do not let product enter drains. Do not flush into surface water or sanitary sewer system.

CLEAN-UP METHODS Pick-up and arrange disposal without creating dust. Sweep up and shovel using dust retarding floor sweeping compound. Keep in closed containers for disposal.

SECTION 7: HANDLING AND STORAGE

HANDLING PROCEDURES Avoid contact with skin and eyes. Avoid formation of dust and dust inhalation. Provide appropriate exhaust ventilation in places where dust is formed

STORAGE NEEDS Store in original container, tightly closed and in a dry well-ventilated place.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE LIMITS (respirable fraction in air):

SILICA SAND (QUARTZ)	OSHA & MSHA-PEL	10 mg/m ³ (8 hour TWA)
	ACGIH-TLV	0.05 mg/m ³ (8 hour TWA)
	NIOSH	0.05 mg/m ³ (10 hour TWA, 40 h work week)
PORTLAND CEMENT	OSHA- PEL, ACGIH-TLV, NIOSH	5 mg/m ³ (TWA)
CARBON BLACK	OSHA-PEL	3.5 mg/ m ³
	ACGIH-TLV	3.5 mg/ m ³

PROTECTIVE EQUIPMENT:

EYE / TYPE Safety eyewear should be used when a risk assessment indicates as necessary.

RESPIRATORY PROTECTION Avoid breathing dust. For operations where inhalation exposure can occur, a NIOSH approved respirator may be necessary.

SKIN/ BODY PROTECTION Wear protective clothes; long sleeves and trousers to prevent dermal exposure.

OTHER / TYPE Eyewash fountain. Emergency shower should be in close proximity.

VENTILATION REQUIREMENTS General dilution and local exhaust as necessary to control airborne dusts below appropriate airborne concentration standards/guidelines.

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE	Solid
VAPOUR PRESSURE	Not applicable
VISCOSITY	Not applicable
VAPOUR DENSITY (AIR=1)	Not applicable
SPECIFIC GRAVITY @20°C (68°F)	2.2
BOILING POINT	Not applicable
SOLUBILITY IN WATER	<10%
APPEARANCE.....	Natural Concrete or Grey Powder
ODOUR	None
pH LEVEL	12.5 @ 20°C (68°F) (Aqueous Solution)
% VOLATILE	Not applicable
EVAPORATION RATE (N-BuAc=1)	Not applicable

SECTION 10: STABILITY AND REACTIVITY

CHEMICAL STABILITY	Product is stable.
POSSIBLE HAZARDOUS REACTIONS	Hazardous polymerization will not occur under normal storage conditions.
CONDITIONS TO AVOID	Do not allow the product to get wet as it will harden. Store in a dry place.
INCOMPATIBLE MATERIALS	No data available.
HAZARDOUS DECOMPOSITION PRODUCTS:	Product is stable, hazardous decomposition will not occur.

SECTION 11: TOXICOLOGICAL INFORMATION

INGREDIENTS LD50/ LC50 DATA	Refer to Page 1 Section 3
ROUTES OF EXPOSURE:	
EYE CONTACT	Irritating
SKIN CONTACT	Frequent or prolonged contact may irritate the skin, low toxicity.
INHALATION (ACUTE)	Prolonged or repeated exposure may cause allergic reactions in certain sensitive individuals. Respirable Silica Quartz can cause chronic silicosis.
CARCINOGENICITY OF MATERIAL	May cause cancer by inhalation. The Silica Quartz component is classified as carcinogenic to humans by NTP and IARC-Group 1.
TERATOGENICITY	No data available
MUTAGENICITY.....	No data available
REPRODUCTIVE EFFECTS	No data available
OTHER	The dust product may be harmful if inhaled. Causes respiratory tract irritation. Prolonged exposure can cause silicosis. May be harmful if swallowed. Causes skin and eye irritation.
SIGNS AND SYMPTOMS OF EXPOSURE	Coughing, skin rash, allergic dermatitis.

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICITY.....	No data available.
PERSISTENCE AND DEGRADABILITY	No data available
BIOACCUMULATIVE POTENTIAL	No data available.
MOBILITY IN THE SOIL	No data available.
OTHER EFFECTS	No data available

SECTION 13: DISPOSAL CONSIDERATIONS

PRODUCT DISPOSAL	Disposal of this product should comply with the requirements of environmental protection and waste disposal legislation in place.
WASTE DISPOSAL	Do not allow product to enter sewers, streams or lakes. Empty containers of this product can be disposed of as normal garbage.

SECTION 14: TRANSPORTATION INFORMATION

TDG CLASSIFICATION	Not regulated.
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SECTION 15: REGULATORY INFORMATION

WHMIS CLASSIFICATION	Class E (Portland Cement) Class D Division 2 Subdivision A (Silica Quartz)
CPR (CANADA) COMPLIANCE	Meets all requirements

SECTION 16: OTHER INFORMATION

ACGIH	American Confederation of Governmental Industrial Hygienists
IARC	International Agency for Research on Cancer
NTP	National Toxicology Program
STEL	Short Term Exposure Limit
PEL	Permissible Exposure Limit
TLV-TWA	Threshold Limit Value - Time-Weighted Average
OSHA	Occupational Safety and Health Administration
NIOSH	National Institute for Occupational Safety and Health
MSHA	Mine Safety and Health Administration
CPR	Controlled Products Regulations
CAS	Chemical Abstracts Service
PPE	Personal Protection Equipment
N/A	Not available

Reference:

1. ACGIH, Threshold Limit Values and Biological Exposure Indices for 2002
2. International Agency for Research on Cancer Monographs, Supplement 7, 1988
3. Canadian Centre for Occupational Health and Safety, CCInfoWeb databases, 2003 (Chempendium and RTECs).
4. Safety Data Sheet from manufacturer

PREPARED BY:	Utilicor Technologies Inc.
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PREPARATION DATE:	October 8 th , 2017

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