

POLYBIND

BY ALLIANCE DESIGNER PRODUCTS INC

POLYDIND SAND
FOR CONCRETE PAVER JOINTS UP TO 1"
 SDS Revision Date (dd/mm/yyyy): 27/01/2016



SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product form : Mixture
 Product name : Polybind Sand
 Use of the substance/mixture : Various

Details of the supplier of the safety data sheet

Supplier : Polybind
 225 Blvd Bellerose West
 Laval, Quebec
 Canada
 H7L 6A1
 www.polybind.com

24 hour Emergency Phone : CHEMTREC (800) 424-9300
 CHEMTREC International +1 (703) 527-3887

SECTION 2 - HAZARDS IDENTIFICATION

- GHS CLASSIFICATIONS**
- Acute toxicity (Oral): 4
 - Acute toxicity (Dermal): 4
 - Acute toxicity (Inhalation): 3
 - Skin Irritation: 2
 - Serious Eye Damage: 2A
 - Skin Sensitization: 1B
 - Carcinogenicity: 1B
 - Specific Target Organ Toxicity – Single Exposure: 3
 - Specific Target Organ Toxicity After Repeat Exposure: 2

GHS Labels Symbols:	
SKIN / EYE & LUNG IRRITANT	POTENTIAL CARCINOGEN
<p>Hazard Statements: WARNING!</p> <ul style="list-style-type: none"> • May cause skin irritation. • May be harmful if swallowed. • May cause an allergic skin reaction. • May cause respiratory irritation. • May cause cancer through chronic inhalation (silica) • May contain crystalline silica • Less than 50% of the mixture consists of ingredients of unknown acute toxicity. 	<p>Prevention Statements: CAUTION:</p> <ul style="list-style-type: none"> • Do not eat, drink or use tobacco when using this product. • Do not breathe dust • Do not expose product to unprotected skin • Wear respiratory protection, protective gloves, eye/face protection • Use only in a well-ventilated area. • Store container tightly closed in cool/well-ventilated place. • Wash exposed areas of body thoroughly after handling.



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SECTION 2 - HAZARDS IDENTIFICATION (CONT.)

Protective Gear Required (PPE):		
 Respiratory Protection	 Safety Gloves	 Eye Protection

SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient name	CAS no.	Agency	Exposure Limits	Comments
Crystalline Silica (as alpha-Quartz)	14808-60-7	OSHA	PEL-TWA [30 mg/m ³]/% SiO ₂ + 2	Total dust
		OSHA	PEL-TWA [10 mg/m ³]/% SiO ₂ + 2 or [250 mppcf]/ % SiO ₂ + 5	Respirable dust
		ACGIH	TLV-TWA 0.025R mg/m ³	Respirable dust
Amorphous Silica	61790-53-2	OSHA	PEL-TWA [80 mg/m ³]/% SiO ₂ + 2	
Proprietary Admixture	N/A			

Note-Chemical admixtures may be present in quantities less than 1%. Information on specific admixtures will be provided by the supplier upon request.

SECTION 4 - FIRST AID MEASURES

Primary Route(s) of Exposure :

- Inhalation : Dust
- Eye Contact
- Skin Contact
- Ingestion

POTENTIAL HEALTH EFFECTS:

Inhalation :

With application of the product there will be dust which may create irritation to the eyes, throat and lungs under prolonged exposure. Use only in well ventilated areas.

Eye contact :

During application this product may cause moderate eye irritation. If eyes are exposed immediately flush out eyes thoroughly with water. Continue flushing for at least 20 minutes, including under eyelids to remove all sand and dust particles. Seek medical attention if irritation persists.

Skin contact :

Wash exposed skin with cool water and a PH-neutral soap. If a rash, persistent irritation or dermatitis occurs, seek medical attention and advice.

Ingestion :

If ingested, DO NOT induce vomiting unless directed to do so by a medical professional. Immediately seek medical attention.

Polybind

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SECTION 4 - FIRST AID MEASURES (CONT.)

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE :

Individuals with (e.g., bronchitis, emphysema, COPD, pulmonary disease) can be aggravated by exposure to dust. Pre-existing skin conditions can be aggravated by exposure. Exposure to crystalline silica or the disease silicosis is associated with increased incidence of scleroderma, tuberculosis and possibly increased incidence of kidney lesions.

SECTION 5 - FIRE FIGHTING MEASURES

Flash Point :	Non-combustible this product poses no fire related hazard.
Flash Point :	Non Flammable
LEL :	N/A
UEL :	N/A
Extinguishing Media :	This material is noncombustible. Use extinguishing media appropriate for surrounding fire.
Unusual Fire & Explosion Hazards :	None known

SECTION 6 - ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Spillage Measures :	If the product is spilled, use dustless methods, (vacuum) and place into covered container for disposal (if not contaminated or wet). Use adequate ventilation to keep exposure to airborne contaminants below the exposure limit.
Waste Disposal Methods :	Follow all applicable local, state and federal regulations for disposal.

SECTION 7 - HANDLING AND STORAGE

Do not allow water to contact product until time of use. Do not breathe dust. The use of an OSHA, MSHA, or NIOSH approved respirator and properly fitted safety goggles is recommended. Avoid exposure of the product to eyes or skin. The product shall be stored in a cool and dry place without exposure to standing water.

KEEP OUT OF REACH OF CHILDREN

SECTION 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTION

Primary Health Hazards :	Prolonged or repeated skin contact can cause drying of the skin which may produce irritation or dermatitis. Airborne dust can cause immediate or delayed irritation or inflammation proper protective gear and handling procedures will limit exposure levels.
Personal Protective Equipment (PPE) :	Wear a dust mask during the application of the product. Wear ANSI approved glasses or Safety goggles when handling both the packaging and when applying the product.. (Wearing contact lenses when using polymeric sand is not recommended.) The use of waterproof gloves is highly recommended to prevent exposure to skin and body.
Respiratory Protection :	Use a NIOSH approved respirator when applying this product is highly recommended when exposed to dust above the exposure limit.
Other Protective Clothing or Equipment :	Protective outer garments including long sleeve shirts, workpants, boots and gloves should be used to prevent exposure when applying this product.
Engineering Controls :	Use only in well-ventilated areas to ensure dust is below exposure levels. Local exhaust can be used, if necessary, to control airborne dust levels.



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SECTION 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTION (CONT.)

Hygiene Measures : Handle in accordance with good industrial hygiene and safety practice. Avoid repeated or prolonged dust inhalation or contact with skin in accordance with above good practices. Wash thoroughly after handling and before eating or drinking. The use of barrier creams or impervious gloves, boots and clothing to protect the skin from contact is recommended. Following work, workers should shower with soap and water and clean clothing before reuse. Precautions must be observed because skin irritation occur with little warning.

Environmental Exposure : This product does not present any particular risk for the environment. Refer to applicable national, state and local regulations.

WARN EMPLOYEES AND/OR CUSTOMERS OF THE HAZARDS AND REQUIRED OSHA PRECAUTIONS ASSOCIATED WITH THE USE OF THIS PRODUCT.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE

Physical state : Uniformly Graded Granular Solid with Tan or Gray Appearance.
 Boiling point (at 760mm Hg) : Not available.
 Vapor pressure (mm Hg) : Not available.
 Vapor density (air = 1) : Not available.
 Specific Gravity (water = 1): APPROX. 2.6 – 3.15
 Melting / freezing point : Not available.
 Evaporation rate (Butyl acetate = 1) : Not available.
 Solubility in water (% by weight) : Slight.
 pH : Not available.
 Freezing Point : Not available.

SECTION 10 - STABILITY AND REACTIVITY

Chemical stability : Stable.
Conditions to avoid : Avoid contact with water and keep dry until used to preserve product utility.
Incompatibility : Strong oxidizers.
Hazardous Polymerization : Will not occur.
Hazardous Decomposition or By-Products : None known.

SECTION 11 - TOXICOLOGICAL INFORMATION

Acute toxicity : Harmful if swallowed.

Polybind Polymeric Sand	
LD50 oral rat	510 - 525 mg/kg
LD50 dermal rabbit	No data available.
LC50 inhalation rat (mg/l)	No data available.
Quartz (14808-60-7)	
LD50 oral rat	500 mg/kg



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SECTION 11 - TOXICOLOGICAL INFORMATION (CONT.)

Skin corrosion/irritation : Based on available data, the classification criteria are not met.
Serious eye damage/irritation : Causes serious eye irritation.
Respiratory or skin sensitisation : May cause an allergic skin reaction.
Germ cell mutagenicity : Based on available data, the classification criteria are not met.
Carcinogenicity : May cause cancer.

Quartz (14808-60-7)	
IARC group	1
National Toxicity Program (NTP) Status	2

Reproductive toxicity : Based on available data, the classification criteria are not met.
Specific target organ toxicity (single exposure) : Based on available data, the classification criteria are not met.
Specific target organ toxicity (repeated exposure) : Causes damage to lungs through prolonged or repeated exposure. (Respirable crystalline silica in the form of quartz or cristobalite from occupational sources is listed by the International Agency for Research on Cancer (IARC) and National Toxicology Program (NTP) as a lung carcinogen. Prolonged exposure to respirable crystalline silica has been known to cause silicosis, a lung disease, which may be disabling. While there may be a factor of individual susceptibility to a given exposure to respirable silica dust, the risk of contracting silicosis and the severity of the disease is clearly related to the amount of dust exposure and the length of time (usually years) of exposure.)
Aspiration hazard : Based on available data, the classification criteria are not met.
Symptoms/injuries after inhalation : May cause respiratory tract irritation.
Symptoms/injuries after skin contact : May cause skin irritation. Do not allow product to harden around any body part or allow continuous, prolonged contact with skin. Handling can cause dry skin. May cause sensitisation by skin contact.
Symptoms/injuries after eye contact : Causes serious eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with possible redness and swelling.
Symptoms/injuries after ingestion : Harmful if swallowed. May cause stomach distress, nausea or vomiting.
Other information : Likely routes of exposure: ingestion, inhalation, skin and eye.

SECTION 12 - ECOLOGICAL INFORMATION

Eco-Toxicity : This product under normal working conditions presents no detectable harm to the environment.
BOD5 and COD : Not available.
Products of Biodegradation : Not available.
Potential to Bioaccumulate: : Not available.



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SECTION 12 - ECOLOGICAL INFORMATION (CONT.)

Toxicity of the Products of Biodegradation : Not available.
Toxicity of the Products of Biodegradation : Not available.
Special remarks on the Products
of Biodegradation : Not available.

SECTION 13 - DISPOSAL CONSIDERATIONS

Waste Disposal Method : Dispose of unusable material via licensed waste disposal company in accordance with local, state, and federal guidelines.

SECTION 14 - TRANSPORT INFORMATION

DOT/UN : Non-regulated
DOT Hazard Class : Non-regulated
Shipping Name : Non-regulated

Not regulated as a hazardous waste material by the U.S. Department of Transportation and TDG Regulations.

SECTION 15 - REGULATORY INFORMATION

US OSHA 29CFR 1910.1200 : Considered hazardous under this regulation and should be included in the employer's hazard communication program.

SARA (Title III)
Sections 311 and 312 : This product has been reviewed according to the EPA Hazard Categories promulgated under sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 and is a hazardous chemical and a delayed health hazard.

SARA (Title III) Section 313 : Not subject to reporting requirements.
TSCA (May 1997) : Some substances are on the TSCA inventory list.
Federal Hazardous Substance Act : Is a hazardous substance subject to statutes promulgated under the subject act.
Canadian Environmental
Protection Act : Not Listed.
Canadian WHMIS : Considered to be a hazardous material under the Hazardous Products Act as defined by the Controlled Products Regulation (Class D2A, E-Corrosive Material) and subject to the requirements of Health Canada's Workplace Hazardous Material Information (WHMIS). This product has been classified according to the hazard criteria of the Controlled Products Regulation (CPR). This document complies with the WHMIS requirements of the Hazardous Products Act (HPA) and the CPR.

CARCINOGENICITY LISTINGS :

NTP : Known carcinogen
OSHA : Not listed as a carcinogen
IARC Monographs : Group 1 Carcinogen
California Proposition 65 : Known Carcinogen



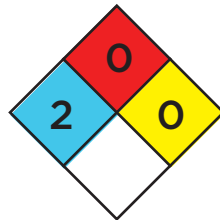
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SECTION 15 - REGULATORY INFORMATION (CONT.)

- NTP** : The National Toxicology Program, in its "Ninth Report on Carcinogens" released May 15, 2000, concluded that "Respirable Crystalline Silica" (RCS) primarily quartz dusts occurring in industrial and occupational settings, is known to be a human carcinogen, based on sufficient evidence of carcinogenicity from studies in humans indicating a casual relationship between exposure to RCS and increased lung cancer rates in workers exposed to crystalline silica dust (reviewed in IAC, 1997; Brown et al., 1997; Hind et al., 1997).
- IARC** : The International Agency for Research on Cancer ("IARC") concluded that there was "sufficient evidence in humans for the carcinogenicity of crystalline silica in the forms or quartz or cristobalite from occupational sources" and that there is "sufficient evidence in experimental animals for the carcinogenicity of cristobalite." The overall IARC evaluation was that "crystalline silica inhaled in the form of quartz or cristobalite" from occupational sources is carcinogenic to humans (Group 1)." The IARC evaluation noted that "carcinogenicity was not detected in all industrial circumstances or studies. Carcinogenicity may be dependent on inherent characteristics of the crystalline silica or on external factors affection its biological activity or distribution of its "polymorphs." For further information on the IARC evaluation, see IARC Monographs on the Evaluation of Carcinogenic Risks to Humans. Volume 68, "Silica, Some Silicates." (1997).

SECTION 16 -OTHER INFORMATION



- Indication of changes** : None.
- Other information** : None.
- NFPA health hazard** : 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given.
- NFPA fire hazard** : 0 - Materials that will not burn.
- NFPA reactivity** : 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.