

SAFETY DATA SHEET

Issue Date 01-Mar-2015

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Version 1

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier

Product Name MICROBOND

Other means of identification

Product Code XBM50

Recommended use of the chemical and restrictions on use

Recommended Use Only for use with the SEMCO X-Bond Liquid.

Uses advised against No information available

Details of the supplier of the safety data sheet

Manufacturer Address

SEMCO Benelux
 Ubroekweg 25, 5928 NM Venlo
 Nederland

Emergency telephone number

Company Phone Number +31(0)85 020 35 60

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status

Not Regulated

Skin sensitization	Category 1B
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Label elements

Emergency Overview



DANGER

Causes severe skin burns and eye damage (Category 1B)
 May cause allergy or asthma symptoms or breathing difficulties if inhaled (Category 1)
 May cause cancer (inhalation) (Category 1A)

Causes damage to organs (lung/respiratory system) through prolonged or repeated exposure (inhalation). (Category 1)
 Chronic unprotected exposure may lead to silicosis.

Appearance Gray, White or Tan Sandy Powder

Physical state Powder

Odor None

Precautionary Statements - Prevention

Avoid breathing dust/fume/gas/mist/vapors/spray
Contaminated work clothing should not be allowed out of the workplace
Wear protective gloves

Precautionary Statements - Response

Get medical advice/attention if you feel unwell
IF ON SKIN: Wash with plenty of soap and water
If skin irritation or rash occurs: Get medical advice/attention
Wash contaminated clothing before reuse

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant. Keep out of drains, sewers, ditches and waterways. Minimize use of water to prevent environmental contamination.

2.2 Potential Health Effects

Relevant routes of exposure: Eye contact, skin contact, inhalation

Potential Acute Health Effects:

Eye: Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the eyes.

Skin: May cause irritation on prolonged or repeated contact.

Inhalation: Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat of the nose, throat and lungs. Chronic unprotected exposure may lead to silicosis.

Ingestion: Ingest of material may cause vomiting and/or stomach pains.

Carcinogenicity: IARC: SiO₂ NTP: Not Regulated OSHA: Not Regulated

Potential Chronic Health Effects

Chronic effects: Contains Material that can cause target organ damage (lungs / respiratory system).

Target Organs: Contains material which causes damage to the following organs: lungs. Review Section 2 and 11 for any additional assessments.

Over-Exposure Signs/Symptoms

Inhalation: Adverse symptoms may include the following: respiratory tract irritation and coughing

2.3 Potential Environmental Effects

- Not considered to be harmful to aquatic and terrestrial life.

Hazards not otherwise classified (HNOC)**Other Information**

Unknown Acute Toxicity 52.60961% of the mixture consists of ingredient(s) of unknown toxicity

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Lower Weight-%	Upper Weight-%
Silica, Crystalline Quartz	14808-60-7	5.0	40.0
Portland Cement	65997-15-1	7.0	20.0
Calcium Carbonate	1317-65-3	0.0	30.0
Calcium Hydroxide	1305-62-0	0.0	8.0

*The exact percentage (concentration) of composition has been withheld as a trade secret.

4. FIRST AID MEASURES**First aid measures**

Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Check for and remove any contact lenses. Get medical attention if irritation occurs.
Skin Contact	Wash skin with soap and water. Wash contaminated clothing before reuse. Consult a physician or other qualified medical personnel if the condition persists.
Inhalation	Remove to fresh air. Check for clear airway, breathing and presence of pulse. Provide Cardiopulmonary resuscitation for persons without pulse or respirations. Consult a physician or other medical personnel.
Ingestion	If swallowed, dilute by drinking large amounts of water, give at least 2 glasses of water to drink. Consult a physician or other qualified medical personnel. Never give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and delayed**Symptoms****Inhalation** Adverse symptoms may include the following: respiratory tract irritation and coughing**Indication of any immediate medical attention and special treatment needed****Note to physicians** Treat symptomatically.**5. FIRE-FIGHTING MEASURES****Suitable extinguishing media**Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Dry chemical, CO₂, alcohol-resistant foam or water spray.**Unsuitable extinguishing media:** None**Products of Combustions:** None**Unusual Hazards:** None**Specific hazards arising from the chemical**

No information available

Explosion Data**Sensitivity to Mechanical Impact** None.**Sensitivity to Static Discharge** None.**Protective equipment and precautions for firefighters**

Firefighters should wear self-containing breathing apparatus (pressure demand MSHA/NIOSH approved or equivalent) and full fire-fighting turnout gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions Use personal protection recommended in section 8.

Environmental precautions

Environmental precautions Keep out of drains, sewers, ditches and waterways. Minimize use of water to prevent environmental contamination.

Methods and material for containment and cleaning up

Methods for containment Handle as a nuisance dust. Use respiratory protection if dust becomes airborne.

Methods for cleaning up Dispose of in accordance with applicable Federal, State, and Local regulations. Keep spills and runoff out of municipal sewers and open bodies of water.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling Do not get in eyes. Avoid contact with skin. Use in well ventilated areas. Wash thoroughly after handling.

Conditions for safe storage, including any incompatibilities

Storage Conditions Store in a cool, dry location and out of direct sunlight. Protect sacks from weather and other damage.

Incompatible materials None known based on information supplied.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines

CHEMICAL NAME	OSHA PEL	ACGIH TLV	NIOSH REL
Silica, Crystalline Quartz	30 mg/m ³ %SiO ⁺²	Not Established	0.05 mg/m ³ TWA
Portland Cement	15 mg/m ³ TWA	10 mg/m ³ TWA	10 mg/m ³ TWA
Calcium Carbonate	15 mg/m ³ TWA	10 mg/m ³ TWA	10 mg/m ³ TWA
Calcium Hydroxide	15 mg/m ³ TWA	5 mg/m ³ TWA	5 mg/m ³ TWA

Appropriate engineering controls

Engineering Controls

Use local ventilation, if needed.

Individual protection measures, such as personal protective equipment

Eye/face protection: Use chemical splash goggles (ANSI 287.1 or approved equivalent)

Skin Protection: Use rubber or neoprene gloves to provide protection against wet material.

Respiratory Protection: None required for normal use of this product. If material is sanded or ground when dry, NIOSH/MSHA approved respirators for dust should be provided and used. As with any safety product, workers using

respirators should be trained in the proper selection, use and care of such equipment.

General Hygiene Considerations: Wash thoroughly after handling. Have eye-wash facilities immediately available.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state	Solid	Odor	None
Appearance	Powder		
Odor threshold	Not available		

<u>Property</u>	<u>Values</u>	<u>Remarks •</u> <u>Method</u>
pH	Not available	
Melting point/freezing point	Not available	
Boiling point / boiling range	Not applicable	
Flash point	Noncombustible	
Evaporation rate	Not applicable	
Flammability (solid, gas)	Not available	
Flammability Limit in Air		
Upper flammability limit:	No information available	
Lower flammability limit:	No information available	
Vapor pressure	No information available	
Vapor density	No information available	
Water solubility	Slightly	
Solubility in other solvents	No information available	
Partition Coefficient	No information available	
Auto ignition temperature	No information available	
Decomposition Temperature	No information available	

10. STABILITY AND REACTIVITY

Reactivity

No data available

Chemical stability

Stable under normal conditions of storage and use, hazardous polymerization will not occur.

Possibility of Hazardous Reactions

None under normal processing.

Conditions to avoid

None

Incompatible materials

None

Hazardous Decomposition Products

None under normal conditions of storage and use.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

No data available

Inhalation

No specific hazard known. May cause transient irritation, headache, nausea, and /or inflammation of the nose, throat or lungs.

Eye contact No specific hazard known. May cause transient irritation or alkali burns.
Skin Contact No specific hazard known. May cause transient irritation or alkali burns.
Ingestion No specific hazard known.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
-	-	-	-

Information on toxicological effects

Symptoms No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization No information available.
Germ cell mutagenicity No information available.
Carcinogenicity No information available.
Reproductive toxicity No information available.
STOT - single exposure No information available.
STOT - repeated exposure No information available.
Aspiration hazard No information available.

Numerical measures of toxicity - Product Information

Unknown Acute Toxicity

12. ECOLOGICAL INFORMATION

Ecotoxicity

Not harmful to aquatic life
 Aquatic Toxicity: No data available.

Terrestrial Toxicity: No data available.
 Mobility: No data available.

Chemical Name	Algae/aquatic plants	Fish	Crustacean
-	-	-	-

Persistence and degradability
 No information available.

Bioaccumulation
 No information available.

Other adverse effects No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal of wastes Disposal should be in accordance with applicable regional, national and local laws and regulations. Local regulations may be more stringent than regional or national requirements. The information presented below only applies to the material as supplied. The identification

based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated.

Contaminated packaging It is the responsibility of the waste generator to determine toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations.

14. TRANSPORT INFORMATION

DOT Not regulated

Land transport USDOT Not classified as a dangerous good under transport regulations Sea transport IMDG
Not classified as a dangerous good under transport regulations Air transport IATA/ICAO
Not classified as a dangerous good under transport regulations

15. REGULATORY INFORMATION

International Inventories

TSCA Complies
DSL/NDSL Complies

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

US Federal Regulations

HCS Classification: Target organ

effects US Federal Regulations

SARA 311/312 Classification Immediate (acute) health hazard, Delayed (chronic) health hazard

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains the following toxic chemical(s) subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986, and Subpart C-Supplier Notification Requirement of 40 CFR Part 372. None required.

SARA 302 Extremely Hazardous Substances None required.

CWA (Clean Water Act)

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
-	-	-	-	-

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Chemical Name	Hazardous Substances	CERCLA/SARA RQ	Reportable Quantity (RQ)
-	-	-	-

US State Regulations

California Proposition 65

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
-	-	-	-

U.S. EPA Label Information

EPA Pesticide Registration Number Not Applicable

16. OTHER INFORMATION

NFPA	Health Hazards 1	Flammability 0	Instability 0	Physical and Chemical Properties -
HMIS	Health Hazards 1	Flammability 0	Physical hazards 0	Personal Protection -

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Revision Note

No information available

Disclaimer

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

*See Section 2 Hazards Identification

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings are not required on SDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material. Legend

ACGIH	American Conference of Government Industrial Hygienists
HMIS	Hazardous Material Identification System
NTP	National Toxicology Program
OSHA	Occupational Safety and Health Administration
STEL	Short Term Exposure Limit
TWA	Time Weighted Average
NIOSH	National Institute for Occupational Safety and Health
PEL	Permissible Exposure Limit

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End of Safety Data Sheet