



**WesBond Corporation
Material Safety Data Sheet**

Wesil Binders

Revision Date: 08/12/2014	Supercedes: 12/12/2/2012	First Issued: 01/01/1999
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Section 1. Chemical Product and Company Identification

Sales Name	Wesil CS, CX, MB, NS, NX, PR, PRX, RP
Product Description	Inorganic Ceramic Binders
CAS Number	N/A

Manufacturer	WesBond Corporation	
Address	1135 E. 7 th Street Wilmington, DE 19801	
Contact	Wes Jones	
Approved By	Wes M Jones	

Telephone Numbers	US – CHEMTREC (24 hrs) CANADA – CANUTEC (24 hrs) MSDS and Product Information (0800 – 1630 EST)	800-424-9300 613-996-6666 302-655-7917
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Section 2. Composition / Information on Ingredients

Component	CAS Number	Weight %
Magnesium Aluminum Silicate	12174-11-7	50 - 70%
Quartz	14806-60-7	1 - 6%
Magnesium Oxide	01309-48-4	<2%
Cationic Starch Ether	56780-58-6	10 – 45%
Proprietary metal salt		<2%

Section 3. Hazard Identification

Emergency Overview	A tan odorless powder.
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Most Important Hazard	May cause cancer by inhalation. The International Agency for Research on Cancer (IARC) has classified magnesium aluminum silicate as group 3, not classifiable as to its carcinogenicity to humans. Prolonged and repeated exposure of dust may cause lung damage.
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Potential Health Effects	
Eyes	Dust may cause irritation and inflammation.
Skin	May cause skin irritation.
Inhalation	May cause irritation of the respiratory tract. Prolonged or repeated exposure causes lung damage.
Ingestion	No adverse health effects are expected from swallowing.
Repeated Dose Toxicity	NIOSH has studied the exposure effects of magnesium aluminum silicate, which contains crystalline silica, on pulmonary function and has determined that there is no evidence of significant respiratory morbidity.
Carcinogenicity	The International Agency for Research on Cancer (IARC) has magnesium aluminum silicate as group 3, not classifiable as to its carcinogenicity to humans. This product contains crystalline silica (quartz).
(See Section 11 for Toxicological Information)	

Section 4. First Aid Measures

EYES	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention if irritation persists.
SKIN	Flush skin with large amounts of water. If irritation persists, get medical attention.
INHALATION	Move person to fresh air. Aid in breathing, if necessary, and get immediate medical attention.
INGESTION	Immediately rinse mouth with water. Finally drink water. If necessary seek medical attention.
Notes to physician	None.

Section 5. Fire Fighting Measures

Fire Extinguishing Media	N.A
Flash Point (°F)	Noncombustible.
Special Fire Fighting Procedures	Non flammable (water)
Flammable Limits (Vapor In Air, Vol.%)	N.A.
Unusual Fire And Explosion Hazards	Product will not burn, not explosive.
Hazardous Decomposition Products	None

Section 6. Accidental Release Measures

Large Spillages	Contain spillage and scoop up or vacuum. Do not use cleaning method that will generate dust that will exceed the PEL. Transfer solids to separate suitable containers for recovery or disposal.
Small Spillages	Same as above
Personal Protection	Goggles, rubber/PVC gloves, and full working clothes recommended.

Section 7. Handling and Storage

Electrostatic Accumulation	N/A
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Hazard	
Usual Shipping Containers	Drums.
Storage/Transport Temperature	Ambient
Storage/Transport Pressure	Ambient.
Load/Unload Temperature	Ambient.
Storage and Handling Materials	Avoid generating or breathing dust.

Section 8. Exposure Controls/Personal Protection

Engineering Controls	General ventilation: local exhaust as needed to control within TLVs. Low airflow so as to not create dust.
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Personal Protective Equipment	
Eyes	Safety glasses with side shields or chemical goggles. Other Protective Equipment: Safety shower and eyewash fountain should be within direct access.
Skin	Neoprene gloves provide protection against skin irritation.
Respiratory Protection	Use NIOSH/MSHA approved respirator whenever workplace conditions warrant use. Avoid breathing dust.
Personal Hygiene	Wash thoroughly after handling
General Hygiene	Equipment in contact with material should be rinsed with water prior to repair and maintenance.

Exposure Guidelines		
Component	PEL-OSHA	TLV-ACGIH
Magnesium Aluminum Silicate	15 mg/m ³ , total dust 5 mg/m ³ , respirable dust	10 mg/m ³ , inhalable particulate 3 mg/m ³ , respirable particulate
Crystalline Silica	0.1 mg/m ³ , respirable dust 0.3 mg/m ³ , total dust	0.025 mg/m ³ , respirable fraction
Magnesium Oxide	15 mg/m ³ , total dust	10 mg/m ³ , inhalable particulate
Cationic Starch Ether	No limits set, non-toxic	No limits set, non-toxic
Proprietary metal salt	N/A	N/A

Unless otherwise noted, all values are reported as 8-hour Time-Weighted-Averages (TWA) and total dust (particulates only).

Section 9. Physical and Chemical Data

Appearance	Powder
Color	Tan
Odor	Odorless
pH	N/A



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Specific Gravity	2.2
Solubility In Water	Insoluble
Solubility In Other Solvents	No
Vapor Pressure	N/A
Melting Point	N/A
Boiling Point	N/A
Evaporation Rate (water = 1)	N/A

Section 10. Stability and Reactivity

Stability	Stable
Conditions To Avoid	None
Incompatibility (Materials To Avoid)	None
Hazardous Decomposition Products	None
Hazardous Polymerization	Will not occur

Section 11. Toxicological Information

Acute Oral Toxicity	No information.
Acute Dermal Toxicity	No information.
Acute Inhalation Toxicity	No information.
Irritation to Skin	Slightly irritating.
Irritation to Eyes	Slightly irritating.
Repeated Dose Toxicity	Information on: crystalline silica, assessment of repeated dose toxicity: This product may contain greater than 0.1% crystalline silica. Repeated exposure to high concentrations results in silicosis, a lung disease characterized by coughing, difficult breathing, wheezing, scarring of the lungs, and repeated, non-specific chest illnesses.
Carcinogenicity	Information on: crystalline silica The International Agency for Research on Cancer (IARC) has classified this substance as a Group 1 (known) human carcinogen.

Section 12. Ecological Information

Biodegradability	Not relevant, inorganic product.
Aquatic toxicity	No information.
Ecological Information	No information.
Environmental Effects	No information.

Section 13. Disposal Considerations

Product disposal	In accordance with municipal, provincial, state, and federal regulations.
RCRA	Not a listed hazard.



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Section 14. Transport Information

General	No Information.
Transport Summary	Not classified as dangerous for transport.
UN/ID number	N/A
DOT/TAG	N/A
IMDG (Sea)	N/A
Proper shipping name	Not regulated
Air (ICAO/IATA-DGR)	N/A

Section 15. Regulatory Information

US Federal Regulations	
U.S. TSCA	In compliance.
OSHA hazard category	IARC 1, 2A or 2B carcinogen; NTP listed carcinogen; Chronic target organ effects reported; OSHA PEL established; ACGIH TLV established
SARA 302	Not subject to SARA 302.
SARA 311/312	Chronic health hazard.
SARA 313	Not subject to SARA 313.
California Proposition 65	This product contains chemicals known to the State of California to cause cancer.
CERCLA reportable quantities	No controlled.

International Regulations	
Canada DSL/NDSL	In compliance
WHMIS classification	Class D Division 2 Subdivision A

Section 16. Other Information

HMIS – National Paint & Coating Hazardous Materials Identification System	
1	Health Hazard Rating - Slight
0	Flammability Rating – Minimal
0	Reactivity Rating - Minimal
B	Personal Protection – Safety Glasses, Gloves
NFPA – National Fire Protection Association Hazard Ratings	
0	Health Hazard Rating - Minimal
0	Flammability Rating – Minimal
0	Instability Rating - Minimal
	Special Hazards – None



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Abbreviations			
ACGIH	American Conference of Governmental Industrial Hygienists	NIOSH	National Institute for Occupational Safety and Health
CAS	Chemical Abstract Service	OSHA	Occupational Safety and Health Administration
HMSIS	National Paint & Coating Hazardous Materials Identification System	SARA	Superfund Amendment and Reauthorization Act
IARC	International Agency for Research on Cancer	PEL	Permissible Exposure Limit
N/A	Not Applicable	TLV	Threshold Limit Value
NFPA	National Fire Protection Association Hazard Ratings	TWA	Time Weighted Average

The information on this safety data sheet is believed to be accurate and it is the best information available to WesBond Corporation. This document is intended only as a guide to the appropriate precautions for handling a chemical by a person trained in chemical handling. WesBond Corporation makes no warranty of merchantability or any other warranty, express or implied with respect to such information of the product to which it relates, and we assume no liability resulting from the use or handling of the product to which this safety data sheet relates. Users and handlers of this product should make their own investigations to determine the suitability of the information provided herein for their own purposes.