



**WesBond Corporation  
Material Safety Data Sheet**

**Wesol P, PA, PS**

Revision Date: 07/21/2011	Supercedes: 07/08/2008	First Issued: 01/21/2002
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**Section 1. Chemical Product and Company Identification**

Sales Name	<b>Wesol P, PA, PS</b>
Product Description	Silica/Alumina Ceramic Binder
CAS Number	N/A

Manufacturer	Wesbond Corporation
Address	1135 East 7 <sup>th</sup> St, Wilmington, DE 19801
Contact	Wes Jones
Approved By	Wes M Jones

<b>Telephone Numbers</b>	US – CHEMTREC (24 hrs)	800-424-9300
	CANADA – CANUTEC (24 hrs)	613-996-6666
	MSDS and Product Information (0800 – 1630 EST)	302-655-7917

**Section 2. Composition / Information on Ingredients**

Component	CAS Number	Weight %
Amorphous Silica	7631-86-9	20 – 25%
Aluminum Oxide	24623-77-6	3 – 5%
Proprietary Mineral Acid		< 1 %
Water	7732-18-5	balance

<b>Additional Information</b>	Refer to Section 8, Subheading “Exposure Guidelines,” for additional information concerning exposure limits.
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**Section 3. Hazard Identification**

<b>Emergency Overview</b>	<b>A clear translucent liquid which is a mild skin and eye irritant.</b>
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<b>Potential Health Effects</b>	
<b>Eyes</b>	Liquid or dry form may cause irritation of eyes.
<b>Skin</b>	Repeated or prolonged contact can cause redness, irritation, and scaling of the skin (dermatitis). Normal care and personal hygiene should prevent skin effects.
<b>Inhalation</b>	This product is not considered an inhalation hazard. However, if the product dries, it may form a dust which when breathed may irritate upper respiratory tract upon repeated or prolonged contact. When dried, this material is a nuisance dust and as such, does not produce significant organic disease or toxic effect with reasonable exposures.
<b>Ingestion</b>	No hazard under normal circumstances. Ingestion of large quantities may lead to discomfort, nausea, and vomiting.
(See Section 11 for Toxicological Information)	



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**Section 4. First Aid Measures**

<b>EYES</b>	Immediately flush eyes with plenty of water for at least 15 minutes. If irritation persists, seek medical attention.
<b>SKIN</b>	Flush skin with plenty of water. Remove contaminated clothing. Call a physician if irritation persists. Wash clothing before reuse.
<b>INHALATION</b>	Remove to fresh air. If not breathing, give artificial respiration and seek medical attention immediately. Oxygen should only be administered by trained personnel.
<b>INGESTION</b>	If swallowed, call a physician immediately. ONLY induce vomiting at the instruction of a physician. Never give anything by mouth to an unconscious person.
Notes to physician	None.

**Section 5. Fire Fighting Measures**

Fire Extinguishing Media	N/A.
Flash Point (°F)	Noncombustible.
Special Fire Fighting Procedures	Nonflammable.
Flammable Limits ( Vapor In Air, Vol.% )	N/A.
Unusual Fire And Explosion Hazards	Product will not burn unless evaporated to dryness.
Hazardous Decomposition Products	Under fire conditions, some components of this product may decompose. The smoke may contain unidentified toxic and/or irritation compounds.

**Section 6. Accidental Release Measures**

Large Spillages	Collect as much as possible in a clean container for reuse or disposal.
Small Spillages	Same as above
Personal Protection	Goggles, rubber/PVC gloves, and full working clothes recommended.

**Section 7. Handling and Storage**

Handling Information	Practice reasonable care to avoid repeated, prolonged skin contact. An eye wash station and a safety shower should be readily accessible to workers wherever this material is stored and/or used.
Electrostatic Accumulation Hazard	N/A
Usual Shipping Containers	Drums.
Storage/Transport Temperature	Keep from freezing. Store at temperatures between 40°F and 110°F.
Storage/Transport Pressure	Ambient.
Load/Unload Temperature	Ambient.
Storage and Handling Materials	Plastic or stainless steel.



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**Section 8. Exposure Controls/Personal Protection**

<b>Engineering Controls</b>	Adequate ventilation is recommended to reduce levels of air contaminants below the exposure limits. (See exposure guidelines of this section.)
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<b>Personal Protective Equipment</b>	
<b>Eyes</b>	Safety glasses with side shields or chemical goggles. Eyewash fountain should be within direct access.
<b>Skin</b>	Wear clean, long-sleeved, body-covering clothing. Nitrile, neoprene, or rubber gloves should provide protection against skin contact.
<b>Respiratory Protection</b>	None required; avoid breathing dried residues. Use NIOSH approved respirator whenever workplace conditions warrant use.
<b>Personal Hygiene</b>	Wash thoroughly after handling
<b>General Hygiene</b>	Equipment in contact with material should be rinsed with water prior to repair and maintenance.

<b>Exposure Guidelines</b>		
No exposure limits have been established for this material. It is recommended exposure be kept below the limits set for Nuisance Dust (Nuisance Particulates)		
Component	PEL-OSHA	TLV-ACGIH
Amorphous Silica	10 mg/m <sup>3</sup> Respirable dust or mist	10 mg/m <sup>3</sup> , Total Dust 5 mg/m <sup>3</sup> , Respirable Dust
Aluminum Oxide	10 mg/m <sup>3</sup> , Total dust 5 mg/m <sup>3</sup> , Respirable dust	10 mg/m <sup>3</sup> , Total Dust 3mg/m <sup>3</sup> Respirable Dust
<b>Unless otherwise noted, all values are reported as 8-hour Time-Weighted-Averages (TWA) and total dust (particulates only).</b>		

**Section 9. Physical and Chemical Data**

Appearance	Translucent, clear liquid.
Odor	None.
pH	3 – 5
Specific Gravity	1.18 – 1.20
Solubility In Water	Product as sold is dilutable.
Solubility In Other Solvents	N/A
Vapor Pressure	N/A
Vapor Density	N/A
Melting Point	0°C/32°F (Same as water)
Boiling Point	100°C/212°F (Same as water)
Evaporation Rate (water = 1)	N/A



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**Section 10. Stability and Reactivity**

Stability	This material is stable during storage and during its intended use.
Conditions To Avoid	None.
Incompatibility (Materials To Avoid)	Addition of chemicals such as caustics may cause gelation.
Hazardous Decomposition Products	Hazardous decomposition products depend upon temperature, air supply and the presence of other materials. Thermal decomposition may produce chlorine.
Hazardous Polymerization	Will not occur.

**Section 11. Toxicological Information**

Toxicological Information	This product contains amorphous silicon dioxide. No cases of silicosis have been reported from amorphous silica.
Acute Oral Toxicity	LD50 (oral, rat) > 3,160 mg/kg. (as 100% silicon dioxide).
Acute Dermal Toxicity	No information.
Inhalation Effects	Rat TCLO=50 mg/m <sup>3</sup> /6hr/2Y-I:I-CAR.
Irritation to Skin	Slightly irritating.
Irritation to Eyes	Slightly irritating.
Sensitization Data	Not a sensitizer (Magnusson-Kligman test).
Reproductive toxicity/teratogenicity	No information.
Carcinogenicity/mutagenicity & long term effects	Not mutagenic (Ames test).
Epidemiology	No information.
Neurotoxicity	No information.

Note: this specific product has not been tested. Data reported are for amorphous silica in water.

**Section 12. Ecological Information**

Biodegradability	Not relevant; inorganic product.
Ecotoxicity	FISH: Zebra fish LC50 (96 hrs) > 5000 mg/l. DAPHNIA: Ceriodaphnia EC50 (48 hr) = 7600 g/l. ALGAE: Selenastrum capricornutum IC50 (48 hr) = 440 mg/l.
Movement & Partitioning	No information.
Environmental Effects	No information.

Note: this specific product has not been tested. Data reported are for amorphous silica in water.

**Section 13. Disposal Considerations**

Product disposal	DO NOT DUMP INTO ANY SEWERS, ON THE GROUND, OR INTO ANY BODY OF WATER. All disposal methods must be in compliance with all Federal, State/Provincial and local laws and regulations. Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator. FOR UNUSED OR UNCONTAMINATED PRODUCT, the preferred options include sending to a licensed, permitted recycler, reclaimer, incinerator or other thermal
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	destruction device.
RCRA	NOT A RCRA HAZARDOUS WASTE. When discarded in its purchased form, this material would not be regulated as a RCRA Hazardous waste under 40 CFR 261.

**Section 14. Transport Information**

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

**Section 15. Regulatory Information**

<b>US Federal Regulations</b>	
U.S. TSCA	All components of this material are listed on or are exempt from the US Toxic Substances Control Act (TSCA) inventory.
OSHA regulated	Not controlled
SARA 302	No information.
SARA 311/312	Not subject to SARA 311/312.
SARA 313	Not subject to SARA 313.
California Proposition 65	Not subject to California Proposition 65.
CERCLA reportable quantities	N/A

<b>International Regulations</b>	
Canada DSL/NDSL	In compliance
WHMIS classification	Not controlled

**Section 16. Other Information**

<b>HMIS – National Paint &amp; Coating Hazardous Materials Identification System</b>	
<b>1</b>	Health Hazard Rating - Slight
<b>0</b>	Flammability Rating – Minimal
<b>0</b>	Reactivity Rating - Minimal
<b>B</b>	Personal Protection – Safety Glasses, Gloves
<b>NFPA – National Fire Protection Association Hazard Ratings</b>	
<b>1</b>	Health Hazard Rating - Slight
<b>0</b>	Flammability Rating – Minimal
<b>0</b>	Instability Rating - Minimal
<b>ACID</b>	Special Hazards – Acid (pH < 7)



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