



### SECTION 1 CHEMICAL PRODUCT AND IDENTIFICATION

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Product Safety: 1 (800) 507-8899  
[www.usg.com](http://www.usg.com)  
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**PRODUCT(S)** Plaster Bonder

**CHEMICAL FAMILY /  
GENERAL CATEGORY** Aqueous blend of polymers

**SYNONYMS** Bonder

### SECTION 2 HAZARD IDENTIFICATION

**EMERGENCY OVERVIEW:****ΔWARNING!**

This product is not expected to produce any unusual hazards during normal use. Exposure to high dust, mist or vapor levels may irritate the skin, eyes, nose, throat, or upper respiratory tract. Exposure to high vapor levels of ethylene glycol may cause slight headache, dizziness, nausea, drowsiness, and/or stupor.

**POTENTIAL HEALTH EFFECTS** (See Section 11 for more information)**ACUTE :**

Inhalation	Exposure to dust, mist or vapors generated during the handling, spray application or use of the product may cause temporary irritation to eyes, skin, nose, throat, and upper respiratory tract. Persons subjected to large amounts of this dust, mist or vapor will be forced to leave area because of nuisance conditions such as coughing, sneezing and nasal irritation. Labored breathing may occur after excessive inhalation. If respiratory symptoms persist, consult physician. Breathing of butyl benzyl phthalate vapors can cause slight headache, dizziness, nausea, drowsiness, and/or stupor. Breathing of ethylene glycol vapors can cause slight headache, dizziness, nausea, drowsiness, and/or stupor. Exposure to high vapor levels may irritate the nose, throat, or upper respiratory tract. Labored breathing may occur after excessive inhalation. If respiratory symptoms persist, consult physician.
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Eyes	Dust/mist/vapors can cause temporary mechanical irritation of eyes. If burning, redness, itching, pain or other symptoms persist or develop, consult physician. Butyl benzyl phthalate vapors may cause slight temporary eye irritation. Ethylene glycol vapors may cause slight temporary eye irritation.
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Skin	None known.
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Ingestion	None known.
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**CHRONIC:**

Inhalation	Prolonged and repeated exposure to butyl benzyl phthalate may cause nervous system damage. Animal studies indicate that prolonged and repeated overexposure to ethylene glycol may cause kidney and/or liver damage and birth defects. Overexposure is highly unlikely at concentrations present in this product. Repeated and prolonged exposure to iron oxide dust may cause a benign pneumoconiosis called siderosis. The ACGIH recommended limit is set to protect against siderosis, any exposure is expected to remain well below OSHA regulatory and ACGIH recommended limits during normal handling and use of this product.
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Eyes	None known.
Skin	Butyl benzyl phthalate may be absorbed through the skin. Avoid longterm contact of the product with skin. Long-term chronic skin absorption of butyl benzyl phthalate may cause nervous system damage.
Ingestion	None known.

**TARGET ORGANS:** Eyes, skin and respiratory system.

**PRIMARY ROUTES OF ENTRY:** Inhalation, eyes and skin contact.

**CARCINOGENICITY CLASSIFICATION OF INGREDIENT(S)** All substances listed are associated with the nature of the raw materials used in the manufacture of this product and are not independent components of the product formulation. All substances, if present, are at levels well below regulatory limits. See Section 11: Toxicology Information for detailed information.

MATERIAL	IARC	NTP	ACGIH	CAL- 65
Vinyl Acetate Monomer	2B	Not Listed	A3	Not Listed
Acetaldehyde	2B	2	A3	Listed
Formaldehyde	1	2	A2	Listed
1,4 Dioxane	2B	2	A3	Listed
Acetaldehyde	2B	2	A3	Listed

IARC - International Agency for Research on Cancer: 1- Carcinogenic to humans; 2A – Probably carcinogenic to humans; 2B – Possibly carcinogenic to humans; 3 - Not classifiable as a carcinogen; 4 – Probably not a carcinogen

NTP – National Toxicology Program (Health and Human Services Dept., Public Health Service, NIH/NIEHS): 1- Known to be carcinogen; 2- Anticipated to be carcinogens

ACGIH – American Conference of Governmental Industrial Hygienists: A1 – Confirmed human carcinogen; A2 – Suspected human carcinogen; A3 – Animal carcinogen; A4 - Not classifiable as a carcinogen; A5 – Not suspected as a human carcinogen

CAL-65 – California Proposition 65 “Chemicals known to the State of California to Cause Cancer”

**POTENTIAL ENVIRONMENTAL EFFECTS:** A component of this product, butyl benzyl pthalate meets the definition of a marine pollutant. (See Section 12 for more information)

### SECTION 3 COMPOSITION, INFORMATION ON INGREDIENTS

MATERIAL	WT%	CAS #
Water	<50	7732-18-5
Vinyl Acetate Polymer Or Ethylene Vinyl Acetate Polymer	>40	9003-20-7 24937-78-8
Butyl Benzyl Phthalate	< 5	85-68-7
Ethylene Glycol	< 5	107-21-1
Iron Oxide	< 0.2	1309-37-1

All ingredients of this product are included in the U.S. Environmental Protection Agency's Toxic Substances Control Act Chemical Substance Inventory and the Canadian Domestic Substances List (DSL).

### SECTION 4 FIRST AID MEASURES



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### FIRST AID PROCEDURES

Inhalation	Remove to fresh air. Leave the area of exposure and remain away until coughing and other symptoms subside. Other measures are usually not necessary, however if conditions warrant, contact physician.
Eyes	In case of contact, do not rub or scratch your eyes. If eye contact occurs, flush immediately with water for 30 minutes.
Skin	Wash with mild soap and water. If irritation persists, consult physician.
Ingestion	This product is not intended to be ingested or eaten. If gastric disturbance occurs, call physician.

**MEDICAL CONDITIONS WHICH MAY BE AGGRAVATED:** Pre-existing upper respiratory and lung diseases such as, but not limited to, bronchitis, emphysema and asthma. Pre-existing skin diseases such as, but not limited to, rashes and dermatitis.

**NOTES TO PHYSICIAN:** Treatment should be directed at the control of symptoms and the clinical condition.

### SECTION 5 FIRE FIGHTING MEASURES

<b>General Fire Hazards</b>	None known		
<b>Extinguishing Media</b>	Water or use extinguishing media appropriate for surrounding fire.		
<b>Special Fire Fighting Procedures</b>	Wear appropriate personal protective equipment. See section 8.		
<b>Unusual Fire/ Explosion Hazards</b>	None known		
<b>Hazardous Combustion Products</b>	Above 175° C – polyvinyl acetate may decompose to H <sub>2</sub> O, CO <sub>2</sub> , CO, and acetic acid, could produce vinyl acetate monomers.		
<b>Flash Point</b>	Not Determined	<b>Auto Ignition</b>	Not Applicable
<b>Method Used</b>	Not Applicable	<b>Flammability Classification</b>	Not Applicable
<b>Upper Flammable Limit (UFL)</b>	Not Determined	<b>Rate of Burning</b>	Not Applicable
<b>Lower Flammable Limit (LFL)</b>	Not Determined		

### SECTION 6 ACCIDENTAL RELEASE MEASURES

**CONTAINMENT:** No special precautions. Wear appropriate personal protective equipment. See section 8.

**CLEAN-UP:** Use normal clean up procedures. No special precautions.

**DISPOSAL:** Follow all local, state, provincial and federal regulations. Never discharge large releases directly into sewers or surface waters.

### SECTION 7 HANDLING AND STORAGE



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**HANDLING:** Avoid dust/mist/vapor contact with eyes. Wear the appropriate eye and skin protection against dust/mist/vapor (See Section 8). Minimize dust/mist/vapor generation and accumulation. Avoid breathing dust/mist/vapors. Wear the appropriate respiratory protection against dust/mist/vapor in poorly ventilated areas and if TLV is exceeded (see Sections 2 and 8). Use good safety and industrial hygiene practices. Avoid breathing vapors.

**STORAGE:** Store in a cool, dry, ventilated area away from sources of heat, moisture and incompatibilities (see Section 10). Do not use if material has spoiled, i.e., there is a moldy appearance or an unpleasant odor. Close container and discard properly. Keep tightly sealed following use.

### SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

MATERIAL	WT%	TLV (mg/m <sup>3</sup> )	PEL (mg/m <sup>3</sup> )
Water	<50	(NE)	(NE)
Vinyl Acetate Polymer	>40	(NE)	(NE)
Or Ethylene Vinyl Acetate Polymer		(NE)	(NE)
Butyl Benzyl Phthalate	< 5	(NE)	(NE)
Ethylene Glycol	< 5	100 ceiling	(NE)
Iron Oxide	< 0.2	5	10

(T)–Total; (R)–Respirable; (NE)–Not Established; (C)–Ceiling; (STEL)–Short-term exposure limit

(F)–Fume; (Du)–Dust; (M)–Mist

ppm–part per million; f/cc–fiber per cubic centimeter; mppcf– million particles per cubic foot

**ENGINEERING CONTROLS:** Provide ventilation sufficient to control airborne dust/mist/vapor levels. If user operations generate airborne dust/mist/vapor, use ventilation to keep dust concentrations below permissible exposure limits. Where general ventilation is inadequate, use process enclosures, local exhaust ventilation, or other engineering controls to control dust/mist/vapor levels below permissible exposure limits. Provide ventilation sufficient to control vapor exposures. Where general ventilation is inadequate, use process enclosures, local exhaust ventilation, or other engineering controls to control vapor levels. If engineering controls are not possible, wear a properly fitted NIOSH/MSHA-approved vapor respirator. Wear a NIOSH/MSHA-approved respirator equipped with vapor cartridges when in poorly ventilated areas, and if TLV is exceeded. A respiratory program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.

**RESPIRATORY PROTECTION:** Wear a NIOSH/MSHA-approved respirator equipped with particulate cartridges when dusty or misty in poorly ventilated areas, and if TLV is exceeded. A respiratory program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use. If engineering controls are not possible, wear a properly fitted NIOSH/MSHA-approved particulate respirator.

#### OTHER PERSONAL PROTECTIVE EQUIPMENT:

Eye/Face	Wear eye protection, safety glasses or goggles, to avoid possible eye contact.
Skin	Wear gloves and protective clothing to prevent repeated or prolonged skin contact.
General	Selection of Personal Protective Equipment will depend on environmental working conditions and operations.



**SECTION 9  
PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance</b>	Gray to off white	<b>Vapor Density (Air = 1)</b>	< 1(same as water)
<b>Odor</b>	Slight acrylic odor	<b>Specific Gravity (H<sub>2</sub>O = 1)</b>	~1.0-1.2
<b>Odor Threshold</b>	Not Determined	<b>Solubility in water (g/100g)</b>	Aqueous acrylic emulsion
<b>Physical State</b>	Paste	<b>Partition Coefficient</b>	Not Determined
<b>pH @ 25 ° C</b>	~8.5 - 9.5	<b>Auto-ignition Temp</b>	Not Determined
<b>Melting Point</b>	Not Applicable	<b>Decomposition Temp</b>	Not Determined
<b>Freezing Point</b>	32°F/ 0°C	<b>Viscosity</b>	Not Determined
<b>Boiling Point</b>	212°F/ 100°C	<b>Particle Size</b>	Not Determined
<b>Flash Point</b>	Not Determined	<b>Bulk Density</b>	7.8 - 8.5 lbs/gal
<b>Evaporation Rate (BuAc = 1)</b>	< 1(same as water)	<b>Molecular Weight</b>	Mixture
<b>Upper Flammable Limit (UFL)</b>	Not Determined	<b>VOC Content</b>	Not Determined
<b>Lower Flammable Limit (LFL)</b>	Not Determined	<b>Percent Volatile</b>	Not Determined
<b>Vapor Pressure (mm Hg)</b>	~24 mmHg@ 25°C		

**SECTION 10  
CHEMICAL STABILITY AND REACTIVITY**

<b>STABILITY</b>	Stable.
<b>CONDITIONS TO AVOID</b>	High temperatures cause decomposition (see below). DNPH, commonly used to determine formaldehyde concentrations, will react with this product resulting in formaldehyde formation. Thus formaldehyde may be reported as higher than actual and in error. Contact with incompatibles (see below).
<b>INCOMPATIBILITY</b>	None known.
<b>HAZARDOUS POLYMERIZATION</b>	None known.
<b>HAZARDOUS DECOMPOSITION</b>	Above 175° C – polyvinyl acetate may decompose to H <sub>2</sub> O, CO <sub>2</sub> , CO, and acetic acid, could produce vinyl acetate monomers. Thermal decomposition may yield carbon dioxide and carbon monoxide.

**SECTION 11  
TOXICOLOGICAL INFORMATION**

<b>ACUTE EFFECTS:</b> Ethylene glycol: LD50 (oral, rat) > 6.14 g/kg; LD50 (oral, mouse) > 14.6 g/kg
<b>CHRONIC EFFECTS / CARCINOGENICITY:</b> There is no vinyl acetate/acetaldehyde/formaldehyde added to this product: Ethylene vinyl acetate polymer is a common emulsion polymer most familiar as the component of ordinary white glue which exhibits the “sticky”



characteristic. Ethylene vinyl acetate polymer is not classified as a carcinogen by IARC, NTP or ACGIH. Trace amounts of residual vinyl acetate monomers, acetaldehyde and formaldehyde may be associated with the production of ethylene vinyl acetate polymer. Any exposure to vinyl acetate monomer, acetaldehyde, or formaldehyde is expected to remain well below OSHA regulatory and ACGIH recommended limits during normal handling and use of this product.

Ethylene Glycol: Animal studies indicate that prolonged and repeated overexposure to ethylene glycol may cause kidney and/or liver damage and birth defects. Overexposure is highly unlikely at concentrations present in this product. Trace amounts of 1,4 dioxane, acetaldehyde and ethylene glycol monomethyl ether may be associated with the production of ethylene glycol. Any exposure to these substances is expected to remain well below OSHA regulatory and ACGIH recommended limits during normal handling and use of this product.

Iron Oxide dust: Repeated and prolonged exposure to iron oxide dust may cause a benign pneumoconiosis called siderosis. The ACGIH recommended limit is set to protect against siderosis, any exposure is expected to remain well below OSHA regulatory and ACGIH recommended limits during normal handling and use of this product.

Industrial hygiene measurement for exposures to formaldehyde cannot use 2,4-dinitrophenylhydrazine (DNPH) in sample collection or during analysis due to reaction with an ingredient in this product that will produce formaldehyde. Sample results will show higher concentrations of formaldehyde than actually exist employing DNPH anywhere in the analytical method. Previous standard IH sampling measurement using DNPH have shown formaldehyde exposure concentrations well below 8 hour time weighted average occupational exposure standards including the DNPH error.

**SECTION 12**  
**ECOLOGICAL INFORMATION**

**ENVIRONMENTAL TOXICITY:** A component of this product, butyl benzyl phthalate meets the definition of a marine pollutant.

<b>Ecotoxicity value</b>	Not determined.
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**SECTION 13**  
**DISPOSAL CONSIDERATIONS**

**WASTE DISPOSAL METHOD:** Dispose of material in accordance with federal, state, and local regulations. Never discharge directly into sewers or surface waters. Consult with environmental regulatory agencies for guidance on acceptable disposal practices.

**SECTION 14**  
**TRANSPORT INFORMATION**

**U.S. DOT INFORMATION:** Not a hazardous material per DOT shipping requirements. Not classified or regulated.

<b>Shipping Name</b>	Same as product name.
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<b>Hazard Class</b>	Not classified.
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<b>UN/NA #</b>	None. Not classified.
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<b>Packing Group</b>	None.
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<b>Label (s) Required</b>	Not applicable.
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<b>GGVSec/MDG-Code</b>	Not classified.
<b>ICAO/IATA-DGR</b>	Not applicable.
<b>RID/ADR</b>	None.
<b>ADNR</b>	None.

### SECTION 15 REGULATORY INFORMATION

#### UNITED STATES REGULATIONS

All ingredients of this product are included in the U.S. Environmental Protection Agency's Toxic Substances Control Act Chemical Substance Inventory.

MATERIAL	WT%	3 0 2	3 0 4	3 1 3	CERCLA	CAA Sec. 112	RCRA Code
Water	<50	NL	NL	NL	NL	NL	NL
Vinyl Acetate Polymer Or Ethylene Vinyl Acetate Polymer	>40	NL	NL	NL	NL	NL	NL
Butyl Benzyl Phthalate	< 5	NL	NL	NL	100	NL	NL
Ethylene Glycol	< 5	NL	NL	X	5,000	NL	NL
Iron Oxide	< 0.2	NL	NL	NL	NL	NL	NL

Key : NL = Not Listed

SARA Title III Section 302 (EPCRA) Extremely Hazardous Substances: Threshold Planning Quantity (TPQ)

SARA Title III Section 304 (EPCRA) Extremely Hazardous Substances: Reportable Quantity (RQ)

SARA Title III Section 313 (EPCRA) Toxic Chemicals: X= Subject to reporting under section 313

CERCLA Hazardous Substances: Reportable Quantity (RQ)

CAA Section 112 (r) Regulated Chemicals for Accidental Release Prevention: Threshold Quantities(TQ)

RCRA Hazardous Waste: RCRA hazardous waste code

#### CANADIAN REGULATIONS

This product has been classified in accordance with the hazard criteria of Controlled Product regulations and the MSDS contains all the information required by the Controlled Products Regulations. All ingredients of this product are included in the Canadian Domestic Substances List (DSL).

MATERIAL	WT%	IDL Item #	WHMIS Classification
Water	<50	Not Listed	Not Listed
Vinyl Acetate Polymer Or Ethylene Vinyl Acetate Polymer	>40	Not Listed	Not Listed
Butyl Benzyl Phthalate	< 5	241	Not Listed
Ethylene Glycol	< 5	716	D2A
Iron Oxide	< 0.2	762	Not Listed

IDL Item#: Canadian Hazardous Products Act – Ingredient Disclosure List Item #

WHMIS Classification: Workplace Hazardous Material Information System



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### Risk and Safety Phrases defined by European Union Directive 67/548/EEC (Annex III and IV)

R-Phrase(s): R36/37/38

S-Phrase(s): S51

## SECTION 16 OTHER INFORMATION

### Label Information

#### Δ WARNING!

Vapors and/or dust can cause irritation to eyes, skin and respiratory tract. Wear eye, skin and respiratory protection as necessary per working conditions. If eye contact occurs flush immediately with water for 30 minutes. Do not ingest. If ingested, call physician. Product safety information: 800-507-8899 or usg.com. Customer Service: 800 USG-4-YOU (800 874-4968). KEEP OUT OF REACH OF CHILDREN.

### INFORMATION FOR HANDLING AND IDENTIFICATION OF CHEMICAL HAZARDS

NFPA Ratings:			HMIS Ratings:		<table border="1"> <tr> <td>HEALTH</td> <td>*</td> <td>1</td> </tr> <tr> <td>FLAMMABILITY</td> <td></td> <td>0</td> </tr> <tr> <td>PHYSICAL HAZARD</td> <td></td> <td>0</td> </tr> <tr> <td>PERSONAL PROTECTION</td> <td></td> <td>B</td> </tr> </table>	HEALTH	*	1	FLAMMABILITY		0	PHYSICAL HAZARD		0	PERSONAL PROTECTION		B	0 = Minimal Hazard
HEALTH	*		1															
FLAMMABILITY			0															
PHYSICAL HAZARD			0															
PERSONAL PROTECTION		B																
Health:	1	Health:	1	1 = Slight Hazard														
Fire:	0	Fire:	0	2 = Moderate Hazard														
Reactivity:	0	Reactivity:	0	3 = Serious Hazard														
					4 = Severe Hazard													

B - Safety glasses and gloves; \* - Contains silica

### Key/Legend

ANSI	American National Standards Institute
ACGIH	American Conference of Governmental Industrial Hygienists
CAA	Clean Air Act
CAS	Chemical Abstracts Service (Registry Number)
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act of 1980
CFR	Code of Federal Regulations
DOT	United States Department of Transportation
DSL	Canadian Domestic Substances List
EPA	United States Environmental Protection Agency
EPCRA	Emergency Planning & Community Right-to-know Act
HMIS	Hazardous Materials Identification System
IARC	International Agency for Research on Cancer
MSHA	Mine Safety and Health Administration
NDSL	Canadian Non-Domestic Substances List
NFPA	National Fire Protection Association
NIOSH	National Institute for Occupational Safety and Health
OSHA	Occupational Health and Safety Administration
PEL	Permissible Exposure Limit
PPE	Personal Protection Equipment
RCRA	Resource Conservation and Recovery Act





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SARA	Superfund Amendments and Reauthorization Act of 1986
TLV	Threshold Limit Value
TSCA	Toxic Substances Control Act
UN/NA#	United Nations/North America number
WHMIS	Workplace Hazardous Material Information System

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The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. It is the user's responsibility to satisfy oneself as to the suitability and completeness of this information for his/her own particular use.

**END**