



# MATERIAL SAFETY DATA SHEET

## TUFF-HIDE™ Primer Surfacer

MSDS #60-585-001  
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### SECTION 1 CHEMICAL PRODUCT AND IDENTIFICATION

United States Gypsum Company  
550 West Adams Street  
Chicago, Illinois 60661-3637  
A Subsidiary of USG Corporation

Product Safety:  
Ph: AUS: 1800 757 943, NZ 0800 874 496  
Web: [www.usg.co.nz](http://www.usg.co.nz)  
Version Date: January 1, 2008, Version: 8

**PRODUCT(S)** TUFF-HIDE™ Primer Surfacer

**CHEMICAL FAMILY /  
GENERAL CATEGORY** Primer

**SYNONYMS** Primer, Coating

### 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. Respirable crystalline silica is classified as a carcinogen and long term breathing of respirable crystalline silica dust can cause silicosis and/or lung cancer. Take necessary measures to avoid exposure to respirable crystalline silica. Prolonged and repeated breathing of respirable mica dust may cause lung disease (pneumoconiosis). 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 irritate 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 acrylic polymer 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. 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.
Eyes	Dust/mist/vapors can cause mechanical irritation of eyes. If burning, redness, itching, pain or other symptoms persist or develop, consult physician. Acrylic polymer vapors may cause slight temporary eye irritation. Ethylene glycol vapors may cause slight temporary eye irritation.
Skin	None known.
Ingestion	None known.

**CHRONIC:**

Inhalation	Due to the sand content of this product, exposures to respirable crystalline silica might be possible during the normal use of this product. Actual exposure levels must be determined by workplace hygiene testing. Prolonged and repeated exposure to airborne free respirable crystalline silica can
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result in lung disease (i.e., silicosis) and/or lung cancer. The development of silicosis may increase the risks of additional health effects. The risk of developing silicosis is dependent upon the exposure intensity and duration. Prolonged and repeated breathing of respirable mica dust may cause lung disease (pneumoconiosis). The extent and severity of lung injury correlates with the length of exposure and dust concentration. 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.

Eyes None known.

Skin None known.

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
Acetaldehyde	2B	2	A3	Listed
Formaldehyde	1	2	A2	Listed
Crystalline silica	1	1	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”

Respirable crystalline silica: IARC: Group 1 carcinogen, NTP: Known human carcinogen.

**POTENTIAL ENVIRONMENTAL EFFECTS:** This product has no known adverse effect on ecology. (See Section 12 for more information)

### SECTION 3 COMPOSITION, INFORMATION ON INGREDIENTS

MATERIAL	WT%	CAS #
Blend of minerals and vinyl acrylic latex	>90	Proprietary*
Talc	<5	14807-96-6
Crystalline Silica	<5	14808-60-7
Ethylene Glycol	<1	107-21-1

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).

\*New Jersey Trade Secret Registry Number (NJTSRN): 80100338-5006The weight percent for silica represents total



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quartz and not the respirable fraction.

### SECTION 4 FIRST AID MEASURES

#### 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. To prevent mechanical irritation, flush thoroughly with water for 15 minutes. If irritation persists, consult physician.
Skin	Wash with mild soap and water. If irritation persists, consult physician.
Ingestion	Never give anything by mouth to an unconscious person. If swallowed, do not induce vomiting. Give large quantities of water, or if available several glasses of milk. If vomiting occurs spontaneously, keep airway passage clear and give more water. Seek medical attention immediately.

**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>	None known		
<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**

**HANDLING:** Avoid dust/mist/vapor contact with eyes. Wear the appropriate eye 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 contact with skin and eyes. Wear gloves and protective clothing to prevent repeated or prolonged skin contact. Avoid breathing vapors.

**STORAGE:** Store in a cool, dry, ventilated area away from sources of heat, moisture and incompatibilities (see Section 10). Store at 60-95 °F (15-35 °C). 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> )
Blend of minerals and vinyl acrylic latex	>90	(NE)	(NE)
Talc	<5	2(R)	20 mppcf
Crystalline Silica	<5	0.025(R)	0.1(R)
Ethylene Glycol	<1	100 ceiling	(NE)

(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. 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:**



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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

Appearance	White	Vapor Density (Air = 1)	< 1(same as water)
Odor	Slight acrylic odor	Specific Gravity (H <sub>2</sub> O = 1)	~1.4-1.6
Odor Threshold	Not Determined	Solubility in water (g/100g)	Aqueous acrylic emulsion
Physical State	Liquid	Partition Coefficient	Not Determined
pH @ 25 ° C	~8 - 9	Auto-ignition Temp	Not Determined
Melting Point	Not Applicable	Decomposition Temp	Not Determined
Freezing Point	32°F/ 0°C	Viscosity	Not Determined
Boiling Point	212°F/ 100°C	Particle Size	Not Determined
Flash Point	Not Determined	Bulk Density	12-13 lbs/gal (1.4-1.6 Kg/L)
Evaporation Rate (BuAc = 1)	< 1(same as water)	Molecular Weight	Mixture
Upper Flammable Limit (UFL)	Not Determined	VOC Content	<50 g/l
Lower Flammable Limit (LFL)	Not Determined	Percent Volatile	48-52
Vapor Pressure (mm Hg)	~24 mmHg@ 25°C		

### SECTION 10 CHEMICAL STABILITY AND REACTIVITY

STABILITY	Stable.
CONDITIONS TO AVOID	Contact with incompatibles (see below).
INCOMPATIBILITY	Crystalline silica in contact with powerful oxidizing agents, such as fluorine, chlorine trifluoride and oxygen difluoride, may cause fires. Crystalline silica will dissolve in hydrofluoric acid and produce a corrosive gas – silicon tetrafluoride.
HAZARDOUS POLYMERIZATION	None known.
HAZARDOUS DECOMPOSITION	Thermal decomposition may yield acrylic monomers, carbon dioxide and carbon monoxide. Thermal decomposition may yield carbon dioxide and carbon monoxide.

### SECTION 11 TOXICOLOGICAL INFORMATION



**ACUTE EFFECTS:** Ethylene glycol: LD50 (oral, rat) > 6.14 g/kg; LD50 (oral, mouse) > 14.6 g/kg

**CHRONIC EFFECTS / CARCINOGENICITY:**

Acetaldehyde/formaldehyde: A component of this product is a proprietary acrylic polymer. The acrylic polymer is not classified as a carcinogen by IARC, NTP or ACGIH. However, trace amounts acetaldehyde and formaldehyde may be associated with the the emulsion polymer. Any exposure to these substances formaldehyde is expected to remain well below OSHA regulatory and ACGIH recommended limits during normal handling and use of this product.

Sand/ Crystalline Silica: Chronic overexposure to airborne free respirable crystalline silica can result in lung disease (i.e., silicosis) and/or lung cancer. The development of silicosis may increase the risks of additional health effects. The risk of developing silicosis is dependent upon the exposure intensity and duration. The development of silicosis may increase the risks of additional health effects. The risk of developing silicosis is dependent upon the exposure intensity and duration.

In June, 1997, IARC classified crystalline silica (quartz and cristobalite) as a human carcinogen. In making the overall evaluation, the IARC Working Group noted that carcinogenicity in humans was not detected in all industrial circumstances studied. Carcinogenicity may be dependent on inherent characteristics of the crystalline silica or on external factors affecting its biological activity or distribution of its polymorphs.

IARC states that crystalline silica inhaled in the form of quartz or cristobalite from occupational sources is carcinogenic to humans (Group 1).

Mica: Prolonged and repeated breathing of respirable mica dust may cause lung disease (pneumoconiosis). The extent and severity of lung injury correlates with the length of exposure and dust concentration.

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.

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

**ENVIRONMENTAL TOXICITY:** This product has no known adverse effect on ecology.

<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**



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<b>U.S. DOT INFORMATION:</b> Not a hazardous material per DOT shipping requirements. Not classified or regulated.	
<b>Shipping Name</b>	Same as product name.
<b>Hazard Class</b>	Not classified.
<b>UN/NA #</b>	None. Not classified.
<b>Packing Group</b>	None.
<b>Label (s) Required</b>	Not applicable.
<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
Blend of minerals and vinyl acrylic latex	>90	NL	NL	NL	NL	NL	NL
Talc	<5	NL	NL	NL	NL	NL	NL
Crystalline Silica	<5	NL	NL	NL	NL	NL	NL
Ethylene Glycol	<1	NL	NL	X	5,000	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
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Blend of minerals and vinyl acrylic latex	>90	Not Listed	Not Listed
Talc	<5	Not Listed	D2A
Crystalline Silica	<5	1406	D2A
Ethylene Glycol	<1	716	D2A

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

WHMIS Classification: Workplace Hazardous Material Information System

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

R-Phrase(s): R36/37/38 R49

S-Phrase(s): S51 S2

**SECTION 16  
OTHER INFORMATION**

**Label Information**

**Δ WARNING!**

Mist, vapors and/or dust may cause irritation to eyes, skin, nose, throat and upper respiratory tract. Avoid irritation by reducing exposure to mist, vapors and/or dust. Use in a well-ventilated area or provide sufficient local ventilation. If misty/high vapor levels/dusty, wear a NIOSH/MSHA-approved mist, vapor or dust respirator. Wear eye protection. If eye contact occurs, flush thoroughly with water for 15 minutes. If irritation persists, call physician. Wash with soap and water after use. Do not ingest. If ingested, call physician. Do not use if material has spoiled, i.e., there is a moldy appearance or an unpleasant odor. Close container and discard properly. Long-term breathing of respirable crystalline silica dust can cause permanent lung damage and/or cancer. Prolonged and repeated breathing of respirable mica dust may cause lung disease (pneumoconiosis). Product safety information: (800) 507-8899 or www.usg.com.

KEEP OUT OF REACH OF CHILDREN.

**INFORMATION FOR HANDLING AND IDENTIFICATION OF CHEMICAL HAZARDS**

NFPA Ratings:			HIMS 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

**Key/Legend**

TLV	Threshold Limit Value
PEL	Permissible Exposure Limit
CAS	Chemical Abstracts Service (Registry Number)
NIOSH	National Institute for Occupational Safety and Health
MSHA	Mine Safety and Health Administration
OSHA	Occupational Health and Safety Administration
ACGIH	American Conference of Governmental Industrial Hygienists



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IARC	International Agency for Research on Cancer
DOT	United States Department of Transportation
EPA	United States Environmental Protection Agency
NFPA	National Fire Protection Association
HMIS	Hazardous Materials Identification System
PPE	Personal Protection Equipment
TSCA	Toxic Substances Control Act
DSL	Canadian Domestic Substances List
NDSL	Canadian Non-Domestic Substances List
SARA	Superfund Amendments and Reauthorization Act of 1986
CAA	Clean Air Act
EPCRA	Emergency Planning & Community Right-to-know Act
RCRA	Resource Conservation and Recovery Act
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act of 1980
UN/NA#	United Nations/North America number
CFR	Code of Federal Regulations
WHMIS	Workplace Hazardous Material Information System

Prepared by:  
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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**