



MATERIAL SAFETY DATA SHEET

DUROCK® Tile Membrane Adhesive

MSDS #14-540-001
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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: 1 (800) 507-8899
www.usg.com
Version Date: May 8, 2008
Version: 3

PRODUCT(S) DUROCK® Tile Membrane Adhesive

**CHEMICAL FAMILY /
GENERAL
CATEGORY** Adhesive

SYNONYMS Glue, bonder

SECTION 2 HAZARD IDENTIFICATION

**EMERGENCY OVERVIEW:
ΔWARNING!**

This product is not expected to produce any unusual hazards during normal use. Direct contact or exposure to high vapor levels may irritate the skin, eyes, nose, throat, or upper respiratory tract.

POTENTIAL HEALTH EFFECTS (See Section 11 for more information)

ACUTE :

Inhalation	Direct contact or exposure to high vapor levels during the handling or use of the product may irritate eyes, skin, nose, throat, and upper respiratory tract. 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.
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Eyes	Direct contact or vapors can cause 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.
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Skin	None known.
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Ingestion	None known.
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CHRONIC:

Inhalation	None known.
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Eyes	None known.
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Skin	None known.
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Ingestion	None known. This product is not intended to be eaten. Wash hands before eating
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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



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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**

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

SECTION 3 COMPOSITION, INFORMATION ON INGREDIENTS

MATERIAL**WT%****CAS #**

Acrylic Based Copolymer Blend
Water

>70
<30

Proprietary
7732-18-5

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

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 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.



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SECTION 5 FIRE FIGHTING MEASURES

General Fire Hazards	None known		
Extinguishing Media	Water or use extinguishing media appropriate for surrounding fire.		
Special Fire Fighting Procedures	Wear appropriate personal protective equipment. See section 8.		
Unusual Fire/ Explosion Hazards	None known		
Hazardous Combustion Products	None known		
Flash Point	Not Determined	Auto Ignition	Not Applicable
Method Used	Not Applicable	Flammability Classification	Not Applicable
Upper Flammable Limit (UFL)	Not Determined		
Lower Flammable Limit (LFL)	Not Determined	Rate of Burning	Not Applicable

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.

SECTION 7 HANDLING AND STORAGE

HANDLING: Avoid contact with eyes. Wear the appropriate eye protection (See Section 8). Minimize vapor accumulation. Avoid breathing vapors. Wear the appropriate respiratory protection against vapors 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.
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).

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

MATERIAL	WT%	TLV (mg/m ³)	PEL(mg/m ³)
Acrylic Based Copolymer Blend	>70	(NE)	(NE)
Water	<30	(NE)	(NE)



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(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 vapors levels. Use ventilation to keep vapor concentrations below permissible exposure limits. Where general ventilation is inadequate, use process enclosures, local exhaust ventilation, or other engineering controls to control vapors 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 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.

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

Appearance	Beige	Vapor Density (Air = 1)	< 1(same as water)
Odor	Slight latex odor	Specific Gravity (H ₂ O = 1)	~1.0 – 1.3
Odor Threshold	Not Determined	Solubility in water (g/100g)	Aqueous acrylic emulsion
Physical State	Paste	Partition Coefficient	Not Determined
pH @ 25 ° C	~8-10	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	Not Determined
Evaporation Rate (BuAc = 1)	< 1(same as water)	Molecular Weight	Mixture
Upper Flammable Limit (UFL)	Not Determined	VOC Content	Zero
Lower Flammable Limit (LFL)	Not Determined	Percent Volatile	Not Determined
Vapor Pressure (mm Hg)	~24 mmHg@ 25°C		

Meets the requirements of the South Coast Air Quality Management District (SCAQMD) Rule 1168 current VOC limit of 50 g/l for "Subfloor Adhesives" and LEEDs EQ Credit 4.1: Low-Emitting Materials: Adhesive and Sealants.



SECTION 10
CHEMICAL STABILITY AND REACTIVITY

STABILITY	Stable.
CONDITIONS TO AVOID	Contact with incompatibles (see below).
INCOMPATIBILITY	None known.
HAZARDOUS POLYMERIZATION	None known.
HAZARDOUS DECOMPOSITION	Thermal decomposition may yield acrylic monomers, carbon dioxide and carbon monoxide.

SECTION 11
TOXICOLOGICAL INFORMATION

ACUTE EFFECTS: None known.

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.

SECTION 12
ECOLOGICAL INFORMATION

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

Ecotoxicity value	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.



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Shipping Name	Same as product name.
Hazard Class	Not classified.
UN/NA #	None. Not classified.
Packing Group	None.
Label (s) Required	Not applicable.
GGVSec/MDG-Code	Not classified.
ICAO/IATA-DGR	Not applicable.
RID/ADR	None.
ADNR	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
Acrylic Based Copolymer Blend	>70	NL	NL	NL	NL	NL	NL
Water	<30	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
Acrylic Based Copolymer Blend	>70	Not Listed	Not Listed
Water	<30	Not Listed	Not Listed

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): None known.

S-Phrase(s): S24/25 S2

**SECTION 16
 OTHER INFORMATION**

Label Information

Δ WARNING!

Avoid contact with eyes and skin. Wear eye protection. If eye contact occurs, immediately flush thoroughly with water for 30 minutes and seek medical advice. Wash thoroughly with soap and water after use. Do not ingest. If ingested, call physician. 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>1</td> </tr> <tr> <td>FLAMMABILITY</td> <td>0</td> </tr> <tr> <td>PHYSICAL HAZARD</td> <td>0</td> </tr> <tr> <td>PERSONAL PROTECTION</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
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



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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

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