

SECTION 1 CHEMICAL PRODUCT AND IDENTIFICATION

USG Interiors, Inc.
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 A Subsidiary of USG Corporation

Product Safety: 1 (800) 507-8899
www.usg.com
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 Version: 4

PRODUCT(S) DEVON

**CHEMICAL FAMILY /
GENERAL
CATEGORY** Ceiling Tiles

SYNONYMS Fiberglass Ceiling Panel

MANUFACTURED AT 850 N. Broadway, Greenville, MS 38701 and/or 35 Arch St., Cloquet, MN 55720

SECTION 2 HAZARD IDENTIFICATION

**EMERGENCY OVERVIEW:
ΔWARNING!**

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

POTENTIAL HEALTH EFFECTS (See Section 11 for more information)

ACUTE :

Inhalation	Exposure to dust generated during the handling or cutting, especially with power tools, of the product may irritate eyes, skin, nose, throat, and upper respiratory tract. Persons subjected to large amounts of this dust 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. Formaldehyde gas, which can cause severe respiratory irritation, may be released under conditions of high heat and humidity. Inhalation of formaldehyde may result in discomfort such as nausea, headache, or weakness; upper respiratory tract (nose and throat) irritation marked by mild burning sensation, sore and dry throats, and thirst; and temporary lung irritation effects with cough, discomfort, difficulty in breathing, and shortness of breath.
Eyes	Dust and/or direct contact can cause mechanical irritation of eyes. If burning, redness, itching, pain or other symptoms persist or develop, consult physician. Formaldehyde gas can cause severe eye irritation, may be released under conditions of high heat and humidity.
Skin	Direct contact with the skin can cause temporary irritation and itchiness. Rubbing of this product against the skin can result in abrasions. If irritation persists, consult a physician. None known.
Ingestion	This product is not intended to be eaten. Unlikely to occur, but if ingested may cause temporary irritation to the gastrointestinal tract, especially the throat and stomach. None known.

CHRONIC:

Inhalation	Prolonged and repeated exposure to respirable fiber glass wool may result in lung disease and/or lung cancer (See Section 11). In a few rare instances, respiratory tract sensitization (asthma) has been reported in individuals exposed to formaldehyde. Respiratory exposure to formaldehyde may cause respiratory sensitization (allergy).
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Eyes	None known.
Skin	Prolonged and repeated contact with the skin can cause temporary irritation and itchiness. If irritation persists, consult a physician. Skin exposure to formaldehyde may cause skin sensitization (allergy).
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
Fiber Glass Wool	3	2	A3	Not Listed
Vinyl Acetate Monomer	2B	Not Listed	A3	Not Listed
Acetaldehyde	2B	2	A3	Listed
Formaldehyde	1	2	A2	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: Formaldehyde:

Flathead minnow LC50: 24.1 mg/L, 96 hr; Cond: flow-through, 21.7 °C, pH 6.8, 50.8 mg/L CaCO₃

Bluegill LC50: 0.1 mg/L, 96 hr; Cond: flow-through

Water flea EC50: 20 mg/L, 96 hr

Photobacterium phosphoreum EC50: 3.00 – 10.2 mg/L, 30 min; Microtox test (See Section 12 for more information)

SECTION 3 COMPOSITION, INFORMATION ON INGREDIENTS

MATERIAL	WT%	CAS #
Fiber Glass Wool	>85	65997-17-3
Urea Phenol-Formaldehyde Resin	<15	25104-55-6
Ethylene Vinyl Acetate Polymer	<2	24937-78-8

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	A commercially available skin cream or lotion may be helpful to treat dry skin areas. If skin has become cracked, take appropriate action to prevent infection and promote healing. 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: This product is a mechanical irritant, and is not expected to produce any chronic health effects from acute exposures. Treatment should be directed at the control of symptoms and the clinical condition.

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	Use self-contained breathing apparatus in a sustained fire and full protective fire fighting gear.		
Unusual Fire/Explosion Hazards	None known		
Hazardous Combustion Products	Organic material in panels can produce oxides of carbon. Formaldehyde, nitrogen oxides, amines, low molecular weight hydrocarbons, hydrogen cyanide, hydrogen chloride, phosgene and acetic acid.		
Flash Point	Not Determined	Auto Ignition	Not Applicable
Method Used	Not Applicable	Flammability Classification	Not Applicable
Upper Flammable Limit (UFL)	Not Applicable	Rate of Burning	Not Applicable
Lower Flammable Limit (LFL)	Not Applicable		

SECTION 6
ACCIDENTAL RELEASE MEASURES

CONTAINMENT: No special precautions. Containment not necessary. Treat as inert material. Keep the spill dry and away from incompatibles (See Section 10). Wear appropriate personal protection (See Section 8). Collect the material from spillage and if not damaged or contaminated by foreign material, ceiling panels may be reclaimed. No special precautions. Wear appropriate personal protective equipment. See section 8.

CLEAN-UP: Use normal clean up procedures. Pick up large pieces. Wear appropriate protective equipment. Use gloves to avoid skin irritation. If dry, shovel or sweep up material from spillage and place collected material into a container for recovery or waste disposal. Avoid dust generation. Avoid inhalation of dust and contact with eyes and skin. Maintain proper ventilation. If vacuum is used to collect dust, use an industrial vacuum cleaner with a high efficiency air filter. If sweeping is necessary, use dust suppressant such as water. Do not dry sweep dust accumulation or use compressed air for clean up. These procedures will help minimize potential exposures.

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

Follow traditional building practices; such as management of water away from the interior of the structure to avoid the growth of mold, mildew and fungus. Remove from the jobsite any building products suspected of being exposed to sustained moisture and considered conducive to mold growth.

STORAGE: Warehouse storage should be in accordance with package directions.

Store in a cool, dry, ventilated area away from sources of heat, moisture and incompatibilities (see Section 10).

Protect from weather and prevent exposure to sustained moisture. Protect product from physical damage. If stored under elevated temperature and high humidity conditions, low levels of formaldehyde may be released and accumulate in poorly ventilated areas.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

MATERIAL	WT%	TLV (mg/m ³)	PEL(mg/m ³)
Fiber Glass Wool	>85	1 f/cc(R)*	15(T)/5(R)
Urea Phenol-Formaldehyde Resin	<15	(NE)	(NE)
Ethylene Vinyl Acetate Polymer	<2	(NE)	(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

*ACGIH: 1 fiber/cubic centimeter air for fibers longer than 5 micrometers and thinner than 3 micrometers.

ENGINEERING CONTROLS: Provide ventilation sufficient to control airborne dust levels. If user operations generate airborne dust, 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 levels below permissible exposure limits.

If cutting or trimming with power tools, dust collectors and local ventilation should be used.

Avoid unnecessary exposure to dust and handle with care. Keep work area clean of dust by using an industrial vacuum cleaner with high efficiency filter or wetting down area with water. Never use compressed air and avoid dry sweeping.

RESPIRATORY PROTECTION: Wear a NIOSH/MSHA-approved respirator equipped with particulate cartridges when dusty 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	Gloves or protective clothing are usually not necessary but may be desirable in specific work situations. For brief contact, no precautions other than clean body-covering clothing should be needed. Wear gloves [chemical gloves are not necessary, there is no chemical irritation hazard]; a long-sleeved shirt loose fitting at the neck and wrists, and long pants to prevent repeated or prolonged skin contact. Barrier creams or skin lotion may be applied to face, neck, wrist and hands when skin is exposed to help prevent drying of skin. Wash work clothing separately from other clothing. Rinse washer thoroughly after use.
General	Selection of Personal Protective Equipment will depend on environmental working conditions and operations.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance	White or color coated woven face mat with water based paint with amber core.	Vapor Density (Air = 1)	Not Applicable
Odor	Low to no odor	Specific Gravity (H₂O = 1)	~2.6 - 3.0
Odor Threshold	Not Determined	Solubility in water (g/100g)	Insoluble
Physical State	Solid panel	Partition Coefficient	Not Applicable
pH @ 25 ° C	Not Applicable	Auto-ignition Temp	Not Determined
Melting Point	1470°F/ 800°C	Decomposition Temp	Not Determined
Freezing Point	Not Determined	Viscosity	Not Applicable
Boiling Point	Not Applicable	Particle Size	Not Applicable
Flash Point	Not Determined	Bulk Density	Not Determined
Evaporation Rate (BuAc = 1)	Not Applicable	Molecular Weight	Mixture
Upper Flammable Limit (UFL)	Not Applicable	VOC Class*	Meets minimum standards
Lower Flammable Limit (LFL)	Not Applicable	Percent Volatile	Zero
Vapor Pressure (mm Hg)	Not Applicable		

*Formaldehyde/VOC classification. Classified according to standards established by the Collaborative for High-Performance Schools (CHPS), the State of Washington, the American Society of Heating, Refrigeration and Air-Conditioning Engineers (ASHRAE) and the American National Standards Institute (ANSI).

SECTION 10 CHEMICAL STABILITY AND REACTIVITY

STABILITY	Stable.
CONDITIONS TO AVOID	High humidity, moisture and contact with incompatibles (see below).
INCOMPATIBILITY	Acids. Hydrofluoric acid.
HAZARDOUS POLYMERIZATION	None known.

HAZARDOUS DECOMPOSITION

The decomposition products from this material are those that would be expected from any organic (carbon-containing) material, and are mainly derived from pyrolysis (burning) of the organics. These decomposition products may include carbon monoxide, carbon dioxide, and carbon particles. Burning of resin may also produce decomposition products including formaldehyde, nitrogen oxides, amines, low molecular weight hydrocarbons, hydrogen cyanide, hydrogen chloride, phosgene and acetic acid.

**SECTION 11
 TOXICOLOGICAL INFORMATION**

ACUTE EFFECTS: Direct contact with dust can cause eye and skin irritation (mechanical) and itchiness. Inhalation of dust can cause coughing and sneezing due to temporary irritation of nose and throat. Urea phenol-formaldehyde resin (cured):

LD50 (oral, rat): 7 g/kg Oral LD50 (oral, mouse): 7 g/kg

Formaldehyde:

LC50 (inhalation, rat): 203 mg/m³; LC50 (inhalation, mouse): 454 mg/ m³ / 4 hrs

LD50 (oral, rat): 100 mg/kg; LD50 (oral, mouse): 42 mg/kg

LD50 (dermal, rabbit): 270 µL/kg

CHRONIC EFFECTS / CARCINOGENICITY:

In October 2001, IARC classified fiber glass wool as Group 3, "not classifiable as to its carcinogenicity to humans." The decision was based on current human and animal research that shows no association between inhalation exposure to dust from fiber glass wool and the development of respiratory disease. This was a reversal of the IARC finding in 1987 of a Group 2B designation (possibly carcinogenic to humans) based on earlier studies in which animals were injected with large quantities of fiber glass. The NTP has not yet reviewed the IARC reclassification or the most current fiber glass health research. At this time the NTP continues to classify glass wool fiber based on the earlier animal injection studies.

This product contains a urea phenol-formaldehyde resin (cured) which is not classified as a carcinogens by IARC, NTP or ACGIH. Trace amounts of residual formaldehyde may be associated with the production of this resin and/or binder. Any exposure to formaldehyde is expected to remain well below OSHA regulatory and ACGIH recommended limits during normal handling and use of this product. Formaldehyde gas has been related to the development of nasal tumors in some experimental animals.

Evidence for this development in humans has never been found. Formaldehyde is classified as a human carcinogen (Group 1) by the International Agency for Research on Cancer (IARC). Long time exposure to formaldehyde can cause skin or respiratory sensitization. Formaldehyde did not cause birth defects in offspring of female mice exposed to concentrations up to 10 ppm.

**SECTION 12
 ECOLOGICAL INFORMATION**

ENVIRONMENTAL TOXICITY: Formaldehyde:

Flathead minnow LC50: 24.1 mg/L, 96 hr; Cond: flow-through, 21.7 °C, pH 6.8, 50.8 mg/L CaCO₃

Bluegill LC50: 0.1 mg/L, 96 hr; Cond: flow-through
 Water flea EC50: 20 mg/L, 96 hr
 Photobacterium phosphoreum EC50: 3.00 – 10.2 mg/L, 30 min; Microtox test

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.

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
Fiber Glass Wool	>85	NL	NL	NL	NL	NL	NL
Urea Phenol-Formaldehyde Resin	<15	NL	NL	NL	NL	NL	NL
Ethylene Vinyl Acetate Polymer	<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
Fiber Glass Wool	>85	Not Listed	Not Listed
Urea Phenol-Formaldehyde Resin	<15	Not Listed	Not Listed
Ethylene Vinyl Acetate Polymer	<2	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): R36/37/38

S-Phrase(s): S2


**SECTION 16
OTHER INFORMATION**

Label Information

Δ WARNING!

Dust may cause irritation to eyes, skin, nose, throat and upper respiratory tract. Avoid irritation by reducing exposure to dust. Cut and trim with a razor knife or hand saw to minimize dust levels. Using power tools for cutting will generate high dust levels. Power tools must be equipped with a dust collection system. Use in a well-ventilated area or provide sufficient local ventilation. If dusty, wear a NIOSH/MSHA-approved dust respirator. Wear eye protection. If eye contact occurs, flush thoroughly with water for 15 minutes. Wear long-sleeve, loose fitting clothing closed at the neck and wrists. If irritation persists, call physician. Wash with soap and water after use. Do not ingest. If ingested, call physician. Sustained high level exposure to fiber glass may increase the risk of lung cancer. 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: Health: 1 Fire: 0 Reactivity: 0			HIMS Ratings: Health: 1 Fire: 0 Reactivity: 0		<table border="1"> <tr> <td style="background-color: blue; color: white;">HEALTH</td> <td style="background-color: white; color: blue;">*</td> <td style="background-color: white; color: blue;">1</td> </tr> <tr> <td style="background-color: red; color: white;">FLAMMABILITY</td> <td style="background-color: white; color: red;">0</td> <td style="background-color: white; color: red;">0</td> </tr> <tr> <td style="background-color: yellow; color: black;">PHYSICAL HAZARD</td> <td style="background-color: white; color: yellow;">0</td> <td style="background-color: white; color: yellow;">0</td> </tr> <tr> <td style="background-color: white; color: black;">PERSONAL PROTECTION</td> <td style="background-color: white; color: black;">E</td> <td style="background-color: white; color: black;">E</td> </tr> </table>	HEALTH	*	1	FLAMMABILITY	0	0	PHYSICAL HAZARD	0	0	PERSONAL PROTECTION	E	E
HEALTH	*		1														
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PHYSICAL HAZARD	0		0														
PERSONAL PROTECTION	E	E															
0 = Minimal Hazard 1 = Slight Hazard 2 = Moderate Hazard 3 = Serious Hazard 4 = Severe Hazard																	
E – Safety glasses, gloves and dust respirator																	
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																
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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