



SECTION 1 CHEMICAL PRODUCT AND IDENTIFICATION

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Product Safety:
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Version Date: January 1, 2008, Version: 5

PRODUCT(S) ROCK FACE ClimaPlus™ (Including FIRECODE® Products)

CHEMICAL FAMILY / GENERAL CATEGORY Ceiling Tiles

SYNONYMS Water Felted Mineral Fiber 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. Man-made mineral fibres have been classified by the European Union as irritating to skin (R:38).

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.
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.
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	Slag wool fiber has been classified as "not classifiable as to its carcinogenicity to humans" (Group 3) by the International Agency for Research on Cancer (IARC). (See Section 11) Prolonged and repeated exposure 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.
Eyes	None known.
Skin	Prolonged and repeated contact with the skin can cause temporary irritation and itchiness. If irritation persists, consult a physician. None known.



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Ingestion	None known.
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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 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
Slag Wool Fiber	3	2	A3	Not Listed
Crystalline silica	1	1	A2	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”

Respirable crystalline silica: IARC: Group 1 carcinogen, NTP: Known human carcinogen. The weight percent of crystalline silica given represents total quartz and not the respirable fraction. The weight percent of respirable silica has not been measured in this product.

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 #
Slag Wool Fiber	>50	65997-17-3
Kaolin	<20	1332-58-7
Expanded Perlite	<10	93763-70-3
Starch	<10	9005-25-8
Cellulose	<5	9004-34-6
Limestone	<2	1317-65-3
Or Dolomite		16389-88-1
Crystalline Silica	<5	14808-60-7
Vinyl Acetate Polymer	<2	9003-20-7
Or Ethylene Vinyl Acetate Polymer		24937-78-8
Zinc Pyrithione	<1	13463-41-7
May be available with foil-backing:		[]
Aluminum Foil (as Aluminum and Cmpds)	0-2	7429-90-5

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).

This material is slag wool. Other generic terms that are used or have been used to classify this material include



mineral wool, man made mineral fiber (MMMF), and man made vitreous fiber (MMVF). A more recent generic term that has appeared in the literature to describe these glassy materials is synthetic vitreous fiber (SVF). The weight percent for silica represents total 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	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	Wear appropriate personal protective equipment. See section 8.		
Unusual Fire/Explosion Hazards	None known		
Hazardous Combustion Products	Organic material in panels can produce oxides of carbon. None known		
Flash Point	Not Determined	Auto Ignition	Not Applicable
Method Used	Not Applicable	Flammability Classification	Not Applicable
Upper Flammable Limit (UFL)	Not Applicable		
Lower Flammable Limit (LFL)	Not Applicable	Rate of Burning	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.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

MATERIAL	WT%	TLV (mg/m ³)	PEL(mg/m ³)
Slag Wool Fiber	>50	1 f/cc(R)	15(T)/5(R)
Kaolin	<20	2(R)	15(T)/5(R)
Expanded Perlite	<10	10	15(T)/5(R)
Starch	<10	10	15(T)/5(R)
Cellulose	<5	10	15(T)/5(R)
Limestone	<2	10	15(T)/5(R)
Or Dolomite		10	15(T)/5(R)
Crystalline Silica	<5	0.025(R)	0.1(R)
Vinyl Acetate Polymer	<2	(NE)	(NE)
Or Ethylene Vinyl Acetate Polymer		(NE)	(NE)
Zinc Pyrithione	<1	(NE)	(NE)
May be available with foil-backing:		[]
Aluminum Foil (as Aluminum and Cmpds)	0-2	10	15(T)/5(R)

(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

TWA is 1 f/cc [respirable fibers: length >5µm; aspect ratio greater or equal to 3:1, as determined by the membrane filter method at 400-450X magnification (4-mm objective), using phase-contrast illumination]. NIOSH recommended exposure level is 3 fibers/cc.



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 colored surface; beige/gray core	Vapor Density (Air = 1)	Not Applicable
Odor	Low to no odor	Specific Gravity (H₂O = 1)	~2.9
Odor Threshold	Not Determined	Solubility in water (g/100g)	Very low
Physical State	Solid panel	Partition Coefficient	Not Applicable
pH @ 25 ° C	~9	Auto-ignition Temp	Not Determined
Melting Point	2200°F/ 1200°C (Slag wool)	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	~250 - 400 kg/m ³
Evaporation Rate (BuAc = 1)	Not Applicable	Molecular Weight	Mixture
Upper Flammable Limit (UFL)	Not Applicable	VOC Class*	Low-emitting
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. None known.
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. None known.

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.

CHRONIC EFFECTS / CARCINOGENICITY:

Slag Wool Fiber: Large morbidity and mortality studies of both European and North American mineral wool manufacturing workers have been conducted. These studies have found no significant association of non-malignant (i.e. fibrosis) or malignant (i.e., lung cancer or mesothelioma) lung disease and exposures to slag wool fibers and have not established a causal relationship between exposure and malignant diseases.

In 2001, the International Agency for Research on Cancer (IARC) assigned slag wool fiber to the Group 3 category ["not classifiable as to carcinogenicity to humans"].

The synthetic mineral fiber used in this product is exonerated from classification as a carcinogen in accordance with Note Q in the EU Commission Directive 97/69/EC.

Industrial hygiene testing on workers installing acoustical ceiling panels for an 8 hour work day showed that the average respirable fiber exposure was 0.12 f/cc per NIOSH Method 7400-B.

Crystalline Silica: Exposures to respirable crystalline silica are not expected during the normal use of this product; however, actual levels must be determined by workplace hygiene testing. The weight percent of respirable crystalline silica may not have been measured in this product. Prolonged and repeated exposure 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.

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).



**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.

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



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MATERIAL	WT%	3 0 2	3 0 4	3 1 3	CERCLA	CAA Sec. 112	RCRA Code
Slag Wool Fiber	>50	NL	NL	NL	NL	NL	NL
Kaolin	<20	NL	NL	NL	NL	NL	NL
Expanded Perlite	<10	NL	NL	NL	NL	NL	NL
Starch	<10	NL	NL	NL	NL	NL	NL
Cellulose	<5	NL	NL	NL	NL	NL	NL
Limestone	<2	NL	NL	NL	NL	NL	NL
Or Dolomite		NL	NL	NL	NL	NL	NL
Crystalline Silica	<5	NL	NL	NL	NL	NL	NL
Vinyl Acetate Polymer	<2	NL	NL	NL	NL	NL	NL
Or Ethylene Vinyl Acetate Polymer		NL	NL	NL	NL	NL	NL
Zinc Pyrithione	<1	NL	NL	NL	NL	NL	NL
May be available with foil-backing:		[]
Aluminum Foil (as Aluminum and Cmpds)	0-2	NL	NL	X	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
Slag Wool Fiber	>50	Not Listed	Not Listed
Kaolin	<20	Not Listed	D2A
Expanded Perlite	<10	Not Listed	D2A
Starch	<10	Not Listed	Not Listed
Cellulose	<5	Not Listed	Not Listed
Limestone	<2	Not Listed	D2A
Or Dolomite		Not Listed	Not Listed
Crystalline Silica	<5	1406	D2A
Vinyl Acetate Polymer	<2	Not Listed	Not Listed
Or Ethylene Vinyl Acetate Polymer		Not Listed	Not Listed
Zinc Pyrithione	<1	Not Listed	Not Listed
May be available with foil-backing:		[]
Aluminum Foil (as Aluminum and Cmpds)	0-2	47	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 R49

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. Long-term breathing of respirable crystalline silica dust can cause permanent lung damage and/or 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:			HIMS Ratings:		HEALTH * 1	0 = Minimal Hazard
Health:	1		Health:	1	FLAMMABILITY 0	1 = Slight Hazard
Fire:	0		Fire:	0	PHYSICAL HAZARD 0	2 = Moderate Hazard
Reactivity:	0		Reactivity:	0	PERSONAL PROTECTION E	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



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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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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.

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