

SECTION 1 CHEMICAL PRODUCT AND IDENTIFICATION

Formglas Products Ltd.

2 Champagne Drive

Tel: (416) 635-8030

Fax: (416) 635-6588

Toronto, Ontario CANADA M3J 2C5

www.formglas.com

PRODUCT(S)	QuarryCast	
COMMON NA	ME / CHEMICAL FAMILY	Glassfiber Reinforced Gypsum (primarily Calcium Sulfate)
SYNONYMS Molded Stone		

SECTION 2 HAZARD IDENTIFICATION

EMERGENCY OVERVIEW:

These products are sold as "manufactured articles" and do not represent a hazard under normal use - see Section 15, Regulatory Information. Hazards listed are associated with the nature of the raw materials used in the manufacture of this product and not the actual manufactured article. Exposure to dust from cutting, grinding or otherwise altering these products may irritate the skin, eyes, nose, throat or upper respiratory tract.

POTENTIAL HEALTH EFFECTS		
Eye Contact	Eye contact with airborne dust may cause immediate or delayed irritation or inflamation. Eye exposure may require immediate first aid treatment and medical attention to prevent damage to the eye.	
Inhalation	Breathing dust generated from machining this product or handling may cause nose, throat or lung irritation including coughing or choking depending on the degree of exposure. Prolonged and repeated exposure to air borne free respirable crystaline silica can result in lung disease (i.e. Silicosis) and/or lung cancer. Crystaline silica is classified by IARC and NTP as a known human carcinogen	
Skin Contact	Skin contact with dust or glass fibers may cause irritation, dry skin, or abrasion.	
Ingestion	None known, not applicable under normal conditions of use.	

SECTION 3 COMPOSITION, INFORMATION ON INGREDIENTS

MATERIAL	WT. %	CAS#
Gypsum (Calcium Sulfate)	80-90	7778-19-9 26499-65-0
Glass fiber	3-5	65997-17-3
Vermiculite	3-4	1318-00-9
Limestone	<5	1317-65-6
Mica, Pholosite	2-5	12001-26-2
Sand, Crystaline Silica	1-5	14808-60-7
Copper Slag (may include CAS#'s 61790-53-2;1344-28-1;1314-13-2)	0-1	1309-37-1
Color Pigments (alternates CAS#'s 51274-00-1;1317-61-9; 57455-37-5)	<5	1332-37-2



SECTION 4 FIRST AID MEASURES

FIRST AID MEASURES		
Eye Contact	Remove contact lenses and flush eyes thoroughly with water for at least 15 minutes, including under eye lids, to remove all particles. Seek medical attention for abrasions.	
Inhalation	Move person to fresh air. Seek medical attention for discomfort or if coughing or other symptoms do not subside.	
Skin Contact	Wash with mild soap and water. Consult physician if irritation persists	
Ingestion	Seek medical attention.	

SECTION 5 FIRE FIGHTING MEASURES

General Fire Hazards	None known - not flammable.	
Extinguishing Media	Water or use extinguishing media appropriate for surrounding fire.	
Unusual Fire/Explosion Hazards	None known	
Hazardous Combustion Products	None known	
Flashpoint & Method	Non-combustible	
Fire Fighting Procedures	Wear appropriate personal protective equipment See Section 8.	

SECTION 6 ACCIDENTAL RELEASE MEASURES

General	These solid molded articles do not represent a spill hazard. Avoid actions that cause dust from damaged articles from becoming airborne. Avoid inhalation of dust. Wear appropriate protective equipment as described in Section 8.
Waste Disposal	Follow federal, state or provincial, and local regulations for solid waste materials disposal. This material is not classified as hazardous waste material and depending on applicable regulations can be considered as inert waste or as common industrial waste

SECTION 7 HANDLING AND STORAGE

Handling	Molded gypsum articles can be heavy and awkward to lift and install posing risks such as sprains and strains to the back, arms and legs. Use proper lifting and handling techniques. If cutting and grinding or similar operations are required, minimize dust generation and accumulation. Avoid breathing dust. Wear appropriate protective equipment, see Section 8. Use good safety and industrial hygiene.
Storage	Protect products from weather and store in a cool, dry, ventilated area away from moisture.



SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

MATERIAL	WT. %	OSHA -PEL (mg/m³)
Gypsum (Calcium Sulfate)	80-90	15(T) / 5(R)
Glass Fiber	3-5	15(T) / 5(R)
Vermiculite	3-4	15(T) / 5(R)
Sand, Crystaline Silica	1-5	$[(10)/(\%\dot{S}iO_2+2)]$ (R)
-		$[(30)/(\%SiO_2+2)]$ (T)
Limestone	<5	15(T) / 5(R)
Mica	2-5	3 (TWA)
Copper Slag (primarily iron oxide)	0-1	15(T) / 5(R)
Color pigments	< 5	15(T) / 5(R)
Particulate otherwise not regulated or established	-	15(T) / 5(R)

OSHA-PEL Occupational Health and Safety Administration - Permissible Exposure Limit (T)-Total; (R) Respirable; (TWA) Time Weighted Average

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⊏ng	mee	ring	Controls

If user operations generate dust, provide ventilation to keep dust levels below permissible exposure limits. When general ventilation is inadequate, use process enclosures, local exhaust ventilation, or other engineering controls to keep dust levels below permissible exposure limits.

	below permissible exposure limits.
Personal Pro	tection Equipment (PPE)
General	Selection of Personal Protection Equipment will depend on operations and environmental working conditions.
Respiratory Protection	Under ordinary conditions, no respiratory protection is required. Wear a NIOSH approved respirator that is properly fitted when exposed to dust levels above exposure limits.
Eye / Face Protection	Wear safety glasses, goggles or face shields to avoid contact with dust or larger particles.
Skin Protection	Wear gloves and protective clothing to prevent repeated or prolonged contact with dust. Remove clothing and protective equipment that becomes dusty and launder before reusing.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Solid articles	Specific Gravity	~ 2.1
Appearance	Range of colors	Bulk Density	2 - 3 lbs./ft. ²
Odor	Low to no odor	Particle Size	Varies
Melting Point	Not Applicable	Solubility in water	Not Applicable
Freezing Point	Not Applicable	Evaporation rate	Not Applicable
Boiling point	Not Applicable	Vapor Density	Not Determined
Flash Point	Not Applicable	Vapor Pressure	Not Determined



SECTION 10 CHEMICAL STABILITY AND REACTIVITY

Stability	Stable
Conditions to Avoid	Contact with water and incompatibles (see below).
Incompatibility	Avoid contact with acids.
Hazardous Polymerization	None Known
Hazardous Decomposition	May include calcium oxide and sulfur dioxide.

SECTION 11 TOXICOLOGICAL INFORMATION

Acute Effects	None Known.
Chronic Effects / Carcinogenicity	Crystaline Siilica is clasified by IARC and NTP as a known human carcinogen and relates to the respirable portion of the raw material itself. Exposures to respirable crystaline silica are not expected under ordinary handling and use of this product(s). Prolonged and repeated exposure to airborne free respirable crystaline 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. Iron Oxides are not considered a carcinogen by IARC, NTP and others but prolonged inhalation of iron oxide dust is known to produce a condition known as siderosis. The exposure limits are set to protect against siderosis.

SECTION 12 ECOLOGICAL INFORMATION

Environmental Toxicity	None known

SECTION 13 DISPOSAL CONSIDERATIONS

Waste Disposal Method	This material is not classified as hazardous waste material. Dispose of material in accordance with federal, state or provincial, and local regulations.
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SECTION 14 TRANSPORTATION INFORMATION

This product is not classified as a Hazardous Material under U.S. DOT or Canadian TDG regulations.

QuarryCast®



SECTION 15 REGULATORY INFORMATION

Many countries have legislation that requires chemical producers or suppliers to prepare MSDSs. In Canada, this legislation is generally called WHMIS (Workplace Hazardous Materials Information System). In the US, the OSHA Hazard Communication Rule (29 CFR1900.1200) prescribes what information is to be provided by MSDS. This MSDS has been prepared in the 16 section format consistent with the Globally Harmonized System of Clasification and Labelling of Chemicals (GHS). Other agencies utilizing this format include the American National Standards Institute (ANSI) - American National Standard for Hazardous Industrial Chemicals, the International Organization for Standardization (ISO), the European Union (EU), and the International Labour Organization (ILO).

With respect to the products that are the subject of this MSDS, the WHMIS requirements of the Hazardous Products Act and Controlled Products Regulations do NOT apply to products classified as "manufactured articles". Section 11 of the Hazardous Products Act indicates by definition that a "manufactured article" means any article that is formed to a specific shape or design during manufacture, the intended use of which when in that form is dependent in whole or in part on its shape or design, and that, under normal conditions of use, will not release or otherwise cause a person to be exposed to a controlled product. In this definition, "exposure" means in a sufficient quantity to pose a hazard. Exposure is limited to the toxicological hazards and means potential for physical contact that could result in damage or potential for entry into the body by a route that could cause harm. "Normal condition of use" does not include an installation process. The subject products fall within the scope of this definition and as "manufactured articles" do not require a MSDS. The information provided in this MSDS relates to the nature of the raw materials used to make the manufactured articles.

SECTION 16 OTHER INFORMATION

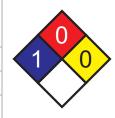
INFORMATION FOR HANDLING AND IDENTIFICATION OF CHEMICAL HAZARDS

HMIS Ratings



0 = Minimal Hazard
1 = Slight Hazard
2 = Slight Hazard
3 = Serious Hazard
4 = Severe Hazard

NFPA Ratings		
Health	1	
Fire	0	
Reactivity	0	



E - Safety glasses, gloves and dust respirator; * - Chronic

The information contained in this document is based on the knowledge known at the date shown and is given in good faith. It is the users responsibility to satisfy oneself as to the suitability and completeness of this information for his/her own particular use. Users assume full responsibility for applying the appropriate safety measures when the product is used.

Abbreviations					
CAS	Chemical Abstracts Service	NIOSH	National Institute for Occupational Safety and Health		
CPR	Controlled Products Regulations	OSHA	Occupational Health and Safety Administration		
DOT	US Department of Transportation	PEL	Permissible Exposure Limit		
HMIS	Hazardous Materials Identification System	PPE	Personal Protective Equipment		
IARC	International Agency for Research on Cancer	WHMIS	Workplace Hazardous Materials Information System		