MATERIAL SAFETY DATA SHEET
USG FIRECODE® Brand Acrylic Firestop Spray Sealant

United States Gypsum Company
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Chicago, Illinois 60680-4124
A Subsidiary of USG Corporation

Product Safety: 1 (800) 507-8899
www.usg.com
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SECTION 1
CHEMICAL PRODUCT AND IDENTIFICATION

PRODUCT: USG FIRECODE® Brand Acrylic Firestop Spray Sealant
CHEMICAL FAMILY: Acrylic Sealant

SECTION 2
COMPOSITION, INFORMATION ON INGREDIENTS

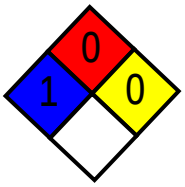
MATERIAL	WT%	TLV (mg/m^3)	PEL(mg/m^3)	CAS NUMBER
Acrylic Polymer	40-50	(NE)	(NE)	Proprietary
Water	35-40	(NE)	(NE)	7732-18-5
White mineral oil	5-10	5(mist)	5(mist)	8042-47-5
Silica, amorphous, fumed	1-5	10	15	112945-52-5
Titanium Dioxide	1-5	10	15	13463-67-7
Propylene Glycol	1-5	(NE)	(NE)	Proprietary
Iron Oxide	1-5	5	10	1309-37-1
Phthalo blue	0.1-0.2	(NE)	(NE)	Proprietary
Chlorothalonil	0.1-0.3	(NE)	(NE)	1897-45-6

(T) – Total (R) – Respirable (NE) – Not Established mmpfc - million particles per cubic foot of air
All ingredients of this product are included in the U.S. Environmental Protection Agency's Toxic Substances Control Act Chemical Substance Inventory. All components of this product are included in the Canadian Domestic Substances List (DSL).

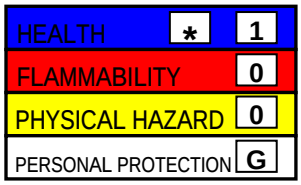
SECTION 3
HAZARD IDENTIFICATION

INFORMATION FOR HANDLING AND IDENTIFICATION OF CHEMICAL HAZARDS

NFPA Ratings:
Health: 1
Fire: 0
Reactivity: 0



HIMS Ratings:
Health: *1
Fire: 0
Reactivity: 0



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

Personal Protection: Use eye and skin protection. Use NIOSH/MSHA-approved respiratory protection when necessary.

G- Safety glasses, gloves and vapor respirator

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

SECTION 3 HAZARD IDENTIFICATION (continued)

POTENTIAL HEALTH EFFECTS

ACUTE:

Eyes: Airborne mist, dust or direct contact can cause mechanical irritation of eyes. If burning, redness, itching, pain or other symptoms persist or develop, consult physician.

Skin: Direct, prolonged or repeated contact with the skin may cause irritation.

Inhalation: Inhalation of vapors may cause headache and nausea. Inhalation of mist when spray applying or dust created when sanding a surface coated with this product can irritate the nose, throat, and the 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.

Ingestion: If ingested may cause gastrointestinal discomfort including nausea, vomiting, lethargy, and diarrhea and may be fatal.

CHRONIC:

Eyes: None known.

Skin: None known.

Ingestion: No known effects.

Inhalation: 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.

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.

Repeated and prolonged exposure to iron oxide dust may cause a benign pneumoconiosis called siderosis. The ACGIH recommended limit is set to protect against siderosis, any exposure is expected to remain well below OSHA regulatory and ACGIH recommended limits during normal handling and use of this product.

TARGET ORGANS: Eyes, skin and respiratory system.

PRIMARY ROUTES OF ENTRY: Inhalation, eyes and skin contact.

SECTION 4
FIRST AID MEASURES

FIRST AID PROCEDURES

Eyes: In case of contact, do not rub or scratch your eyes. Flush thoroughly with water for 15 minutes to remove particles. Get medical attention immediately.

Skin: Wash with mild soap and water. A commercially available hand lotion may be used to treat dry skin areas. If skin has become cracked, take appropriate action to prevent infection and promote healing. If irritation persists, consult physician.

Inhalation: Remove to fresh air. Leave the area of dust/mist exposure and remain away until coughing and other symptoms subside. Other measures are usually not necessary, however if conditions warrant, contact physician.

Ingestion: Get 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.

SECTION 5
FIRE FIGHTING MEASURES

General Fire Hazards: Not expected to burn.
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:	None Known	**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. Wear appropriate personal protection (See Section 8).

CLEAN-UP:
Use normal clean up procedures. Wear appropriate protective equipment. Ventilate area. Floor may be slippery; use care to avoid falling. Shovel or scoop up material from spillage into a waste container for disposal.

DISPOSAL:
Follow all local, state, provincial and federal regulations. Never discharge large releases directly into sewers or surface waters. Trace amounts of residue can be flushed to a drain, using plenty of water.

SECTION 7
HANDLING AND STORAGE

HANDLING:
When spray applying, minimize mist generation and accumulation. Avoid breathing mist. Wear the appropriate respiratory protection against mist in poorly ventilated areas and if TLV is exceeded (see Sections 2 and 8). Avoid mist contact with eyes. Wear the appropriate eye protection against mist (See Section 8).
Avoid breathing vapors and eye and skin contact.
Use good safety and industrial hygiene practices.

STORAGE:
Store at room temperature in a dry location.

SECTION 8
EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS:
Use ventilation to keep vapor concentrations below permissible exposure limits (See Section 2).
When spray applying and general ventilation is inadequate to control vapor/mist levels below permissible exposure limits (see Section 2) use process enclosures, local exhaust ventilation, or other engineering controls.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION (continued)

RESPIRATORY PROTECTION:

Wear a NIOSH/MSHA-approved respirator 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 safety glasses, goggles or face shield for eye protection.
Skin: Wear neoprene gloves. Wear adequate clothing to minimize skin contact. Wash clothing on a regular basis.
General: Selection of Personal Protective Equipment will depend on environmental working conditions and operations.

SECTION 9
PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Red	**Odor**	Mild acrylic odor
Physical State	Paste	**pH**	7-10
Vapor Pressure	Not Applicable	**Vapor Density**	Not Available
Boiling Point	212 ºF	**Freezing Point**	32 ºF
Melting Point	Not Applicable	**Solubility (H2O)**	Miscible
Specific Gravity	1.06	**Particle Size**	Not Applicable
Softening Point	Not Applicable	**Evaporation Rate**	Not Applicable
Viscosity	Not Applicable	**Bulk Density**	Not Available
Percent Volatile	40	**Molecular Weight**	Mixture
VOC Content	< 47 g/L less water & exempt solvent		

SECTION 10
CHEMICAL STABILITY AND REACTIVITY

STABILITY:	Stable.
CONDITIONS TO AVOID:	Contact with incompatibles.
INCOMPATIBILITY:	Strong oxidizing agents, acids and bases.
HAZARDOUS POLYMERIZATION:	Will not occur.
HAZARDOUS DECOMPOSITION:	None known.

SECTION 11
TOXICOLOGICAL INFORMATION

ACUTE EFFECTS:

Direct contact may cause eye or skin irritation. Exposure to mist or vapors may cause eye, skin and/or respiratory irritation. (See Section 3)

$LD_{50:}$ Not Available for product. LC_{50}: Not Available for product.

CHRONIC EFFECTS / CARCINOGENICITY:

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.

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.

SECTION 11 TOXICOLOGICAL INFORMATION (continued)

Crystalline silica (continued): 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).

Iron Oxide Dust: Repeated and prolonged exposure to iron oxide dust may cause a benign pneumoconiosis called siderosis. The ACGIH recommended limit is set to protect against siderosis, any exposure 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: Not determined.
Ecotoxicity value: Not determined.

SECTION 13
DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD:
Dispose of material in accordance with Federal, State, Provincial, and Local regulations. Consult with environmental regulatory agencies for guidance on acceptable disposal practices. Never discharge directly into sewers or surface waters.

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.

SECTION 15 REGULATORY INFORMATION (continued)

UNITED STATES REGULATIONS (continued)

MATERIAL	WT%	302	304	313	CERCLA	CAA Sec. 112	RCRA Code
Acrylic Polymer	40-50	NL	NL	NL	NL	NL	NL
Water	35-40	NL	NL	NL	NL	NL	NL
White mineral oil	5-10	NL	NL	NL	NL	NL	NL
Silica, amorphous, fumed	1-5	NL	NL	NL	NL	NL	NL
Titanium Dioxide	1-5	NL	NL	NL	NL	NL	NL
Propylene Glycol	1-5	NL	NL	NL	NL	NL	NL
Iron Oxide	1-5	NL	NL	NL	NL	NL	NL
Phthalo blue	0.1-0.2	NL	NL	NL	NL	NL	NL
Chlorothalonil	0.1-0.3	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 the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations. All components of this product are included in the Canadian Domestic Substances List (DSL).

MATERIAL	WT%	IDL Item #	WHMIS Classification:
Acrylic Polymer	40-50	Not Listed	Not Listed
Water	35-40	Not Listed	Not Listed
White mineral oil	5-10	1224	Not Listed
Silica, amorphous, fumed	1-5	Not Listed	Not Listed
Titanium Dioxide	1-5	Not Listed	Not Listed
Propylene Glycol	1-5	Not Listed	Not Listed
Iron Oxide	1-5	762	Not Listed
Phthalo blue	0.1-0.2	Not Listed	Not Listed
Chlorothalonil	0.1-0.3	Not Listed	Not Listed

IDL Item # : Canadian Hazardous Products Act – Ingredient Disclosure List Item #
WHMIS Classification: Workplace Hazardous Material Information System

SECTION 15 REGULATORY INFORMATION (continued)

CARCINOGENICITY CLASSIFICATION OF INGREDIENT(S) Respirable crystalline silica and chlorothalonil 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
Respirable Crystalline Silica	1	1	A2	Listed
White Mineral Oil	1	1	Not Listed	Listed
Chlorothalonil	2B	Not Listed	Not Listed	Listed

IARC – International Agency for Research on Cancer (World Health Organization)
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"

SECTION 16
OTHER INFORMATION

Label Information

ΔWARNING!

Mist or fumes created from product may cause eye, skin, nose, throat or upper respiratory irritation. Inhalation of vapor or mist may cause headache, nausea, or irritation of nose, throat, and lungs. Use in a well ventilated area. Wear a NIOSH/MSHA-approved dust respirator in poorly ventilated areas. Avoid contact with eyes and skin. Wear safety glasses or goggles for eye protection. If eye contact occurs, immediately flush thoroughly with water for 15 minutes. If irritation persists, consult physician. Prolonged or repeated contact with skin can cause irritation. Wear waterproof gloves and protective work clothing for skin protection. If skin contact occurs, wash thoroughly with soap and water. If irritation persists, consult physician. Do not ingest. If ingested, consult physician immediately.
Product safety information: (800) 507-8899 or www.usg.com
KEEP OUT OF REACH OF CHILDREN.

Key/Legend

TLV	Threshold Limit Value
PEL	Permissible Exposure Limit
CAS	Chemical Abstracts Service (Registry Number)

SECTION 16 OTHER INFORMATION (continued)

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
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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