MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT & COMPANY IDENTIFICATION

Product name	**D60481**
MSDS name	CHEM CALK FRP ADH 4 GAL
CAS number	Mixture
Product use	intallation of FRP wall panels
Generic description	Vinyl/Acrylic Caulk
Manufacturer	Bostik, Inc. 211 Boston Street Middleton, MA 01949 USA
24 hour emergency assistance	Telephone: 1-800-227-0332
General assistance	Telephone: 1-978-777-0100
MSDS assistance	Telephone: 1-414-607-1347

2. COMPOSITION / INFORMATION ON INGREDIENTS

Component(s)	CAS #	Percent
Ethylene glycol	107-21-1	1 - 5
Stoddard solvent	8052-41-3	1 - 5
Silica, Quartz	14808-60-7	0.1 - 1

3. HAZARDS IDENTIFICATION

Emergency overview Extended contact with this material may cause irritation to the skin, eyes, and mucous membranes. Primary Routes of Exposure: eyes, skin, and inhalation.

Potential health effects

- **Skin** Prolonged and/or repeated skin contact with this product may cause irritation/dermatitis.
- **Eyes** May cause irritation with temporary redness with stinging and tearing.
- **Inhalation** Inhalation: Inhalation of mist and/or vapor may cause respiratory irritation, dizziness, nausea, or headache.
- **Ingestion** This product can cause gastrointestinal irritation, nausea, vomiting, and diarrhea.

Target organs None known for product as a whole.

4. FIRST AID MEASURES

First aid

- **Skin** Remove contaminated clothing to prevent further skin exposure and dispose of properly. In situations involving considerable skin contact, place the contaminated person in a deluge shower for at least 15 minutes. Seek medical attention immediately. For minor exposures, wash thoroughly with soap and clean water. Do not attempt to neutralize with chemical agents. Once thoroughly washed, seek medical attention immediately.
- **Eye** Immediately flush with plenty of water for at least 15 minutes, holding eyelids open at all times. Do not attempt to neutralize with chemical agents. Get medical attention immediately.
- **Inhalation** Remove to fresh air. Get medical attention if symptoms develop. If not breathing, give CPR.
- **Ingestion** No harmful effect is anticipated. If ingested, get immediate medical attention. Do not induce vomiting unless instructed to do so by medical personnel. Never give anything by mouth to a victim who is unconscious or is having convulsions.
- **Notes to physician** None

5. FIRE FIGHTING MEASURES

Hazardous combustion products Decomposition can produce hazardous chemicals. Carbon monoxide, carbon dioxide, acetic acid, vinyl acetate, and other unknown products may be produced during combustion.

Extinguishing media	This product is a water dispersion and as such will not burn until all water has boiled away. Residual solid and container can support combustion. Use dry chemical, carbon dioxide, water spray, or foam.
Sensitivity to mechanical impact	None Known
Sensitivity to static discharge	None Known
Unusual fire & explosion hazards	During a fire, irritating and highly toxic gases may be generated during combustion or decomposition. Vapors may be heavier than air and may travel long distances along the ground before igniting back to vapor source. High temperatures can cause sealed containers to rupture due to a buildup of internal pressures. Cool with water.
Fire fighting equipment/instructions	Firefighters should wear full protective clothing including self contained breathing apparatus.
Flash point	> 200 °F (> 93.3 °C)

6. ACCIDENTAL RELEASE MEASURES

Emergency action	Appropriate safety measures and protective equipment should be used. See Section 8. Do not discharge to lakes, streams, ponds, or sewers. Dispose of in compliance with local, state, and federal regulations.
Containment	Isolate spill area. Stop discharge if safe to do so. Stop material from contaminating soil or from entering sewers or water streams. Cover spills with absorbant clay or sawdust and place in closed chemical waste containers. Use caution to avoid falls. Spilled adhesive is very slippery.
Reporting	See Federal reporting requirements listed in Section 15. We recommend you contact local authorities to determine if there may be other local reporting requirements.

7. HANDLING & STORAGE

For Commercial Use Only - Not Packaged or Labeled for Home Use!

Handling	Wash hands thoroughly after handling, especially before eating, drinking, smoking, and using restroom facilities. Wash contaminated goggles, face shields, and gloves. Professionally launder contaminated clothing before re-use.
Storage	Do not freeze. Store in a cool, dry, well-ventilated area away from heat, ignition sources and direct sunlight. Water contamination should be avoided. Do not pressurize, cut, heat or weld containers. Empty product containers may contain product residue. Do not reuse empty containers.
Empty container precaution	Attention! Follow label warnings even after container is emptied since empty containers may retain product residues. Do not reuse empty container without professional cleaning for food, clothing, or products for human or animal consumption, or where skin contact can occur.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering controls	Use local exhaust ventilation when vapors, mists, or dusts are being generated. Suitable respiratory equipment should be used when insufficient ventilation or operational procedures demand it.
Eye protection	Wear goggles or safety glasses with side shields. Contact lenses should not be worn.
Skin and body protection	Wear rubber boots and apron, protective clothing, and impervious gloves to minimize skin exposure.
Respiratory protection	None required where adequate ventilation conditions exist. If airborne concentrations are above the applicable exposure limits, use NIOSH approved respiratory protection.
General	Eyewash fountains and emergency showers should be readily available.

Exposure limits

ACGIH - Threshold Limits Values - Time Weighted Averages (TLV-TWA)		
Silica, Quartz	14808-60-7	0.025 mg/m3 TWA (respirable fraction)
Stoddard solvent	8052-41-3	100 ppm TWA
NIOSH - Pocket Guide - TWAs		
Silica, Quartz	14808-60-7	0.05 mg/m3 TWA (respirable dust)
Stoddard solvent	8052-41-3	350 mg/m3 TWA
OSHA - Final PELs - Time Weighted Averages (TWAs)		
Stoddard solvent	8052-41-3	500 ppm TWA; 2900 mg/m3 TWA
OSHA - Vacated PELs - Ceilings		
Ethylene glycol	107-21-1	50 ppm Ceiling; 125 mg/m3 Ceiling
OSHA - Vacated PELs - TWAs		
Silica, Quartz	14808-60-7	0.1 mg/m3 TWA (respirable dust)
Stoddard solvent	8052-41-3	100 ppm TWA; 525 mg/m3 TWA

9. PHYSICAL & CHEMICAL PROPERTIES

Solubility (H2O)	Disperses in Water
Freezing point	32 °F (0 °C)
Density	1.549 g/cc
Odor	Mild
Color	White
Physical state	Liquid
Freeze protect	No
VOC (Volatile Organic Compounds)	123 g/l

10. STABILITY & REACTIVITY

Hazardous reactions/decomposition products	If product is burned carbon monoxide, carbon dioxide, acetic acid, vinyl acetate, and other unknown products may be produced. Additionally, depending on conditions, some aliphatic aldehydes and carboxylic acids may be formed.
Hazardous polymerization	Will not occur.
Conditions to avoid	Excessive heat over 200°C or cold under 10°C. Avoid water, amines, strong bases, alcohols and metallic hydrides.
Stability	Stable under normal conditions. Coagulation may occur following freezing, thawing, or boiling.

11. TOXICOLOGICAL INFORMATION

Toxicological data If any toxicological data is available, it will be listed below:

LD50

Toxicology Data - Selected LD50s and LC50s

Ethylene glycol	107-21-1	Oral LD50 Rat: 4000 mg/kg; Dermal LD50 Rabbit: 9530 µL/kg
Silica, Quartz	14808-60-7	Oral LD50 Rat: 500 mg/kg

Carcinogenicity If this product contains any carcinogens, they will be noted below:

IARC - Group 1 (Carcinogenic to Humans)

Silica, Quartz	14808-60-7	Monograph 68 [1997] (listed under Crystalline silica inhaled in the form of quartz or cristobalite from occupational sources)

NIOSH - Pocket Guide - Potential Occupational Carcinogens

Silica, Quartz	14808-60-7	potential occupational carcinogen

NTP (National Toxicology Program) - Report on Carcinogens - Known Carcinogens

Silica, Quartz	14808-60-7	Known Carcinogen

OSHA - Hazard Communication Carcinogens

Silica, Quartz	14808-60-7	Present

12. ECOLOGICAL INFORMATION

VOC (Volatile Organic Compounds)	123 g/l
Ecotoxicological information	No data available for this product.

13. DISPOSAL CONSIDERATIONS

It is the obligation of each user of the product mentioned herein to determine and comply with the requirements of all applicable local, state and federal regulations.

Waste disposal This product as supplied is not considered a hazardous waste under RCRA. This product should not be disposed of in a landfill. Do not discharge to streams, lakes, ponds, or sewers. Disposal of unused portions of this product and process waste containing this product should be done only after a careful evaluation and in compliance with all federal, local, and state laws.

14. TRANSPORT INFORMATION

Department of Transportation (DOT) Requirements

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

15. REGULATORY INFORMATION

All components are on the U.S. EPA TSCA Inventory List.

This MSDS is prepared and distributed pursuant to the Federal Hazard Communication Standard, 29 CFR 1910.1200.

Federal regulations

CERCLA/SARA - Hazardous Substances and their Reportable Quantities

Ethylene glycol	107-21-1	5000 lb final RQ; 2270 kg final RQ

CERCLA/SARA - Section 313 - Emission Reporting

Ethylene glycol	107-21-1	1.0 % de minimis concentration

TSCA (Toxic Substances Control Act) - Section 12(b) - Export Notification

Xylenes (o-, m-, p- isomers)	1330-20-7	Section 4

State regulations

If this product contains any ingredients listed under California Proposition 65, they will be noted below:

California - Proposition 65 - Carcinogens List

Silica, Quartz	14808-60-7	carcinogen, initial date 10/1/88 (airborne particles of respirable size)

International regulations

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and contains all the information required by the Controlled Products Regulations.

All components are included on the Canadian Domestic Substances List (DSL).

HMIS Ratings

Health: 1
Flammability: 1
Physical hazard: 0
Personal protection: X

SARA 311/312 HAZARD CATEGORIES

Immediate Hazard - No
Delayed Hazard - Yes
Fire Hazard - No
Pressure Hazard - No
Reactivity Hazard - No

WHMIS status

Controlled

WHMIS labeling

WHMIS classification

D2B - Other Toxic Effects-TOXIC

16. OTHER INFORMATION

Disclaimer

The data in this MSDS has been compiled from publicly available sources. This data relates only to the designated product and not to the use of said product in combination with other materials. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist. Responsibility for proper precautions and safe use of the product lies with the user. All data in this MSDS is typical of the product as a whole, and does not represent any individual lot or batch, therefore, Bostik, Inc. makes no warranty about the accuracy of the data herein and assumes no liability for the use of such data. It is the responsibility of the user to comply with all applicable federal, state, and local laws and regulations.

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Prepared by

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