

# Firestop Of Virginia

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MSDS  
BOOK

# **Kirby-Vass Insulation, Inc.**

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P O Box 19345  
Roanoke, Va. 24019

ph. (540)992-3960  
fax (540)992-4796

263 Industrial Drive  
Hollins, Va. 24019

## **NOTICE TO EMPLOYEES:**

This book contains safety information on the products we use. Please refer to the index for help finding a particular product. There are emergency phone numbers and treatments listed in case of an accident.

This book will be provided in hard copy form for the Customers we are working for to keep in their office trailers on each jobsite.

Each employee will be issued a card with our company's phone number, fax number, and website address to access the MSDS Books. Upon request of a MSDS; we must have a copy of that requested sheet in hand before the end of that days shift.

You should refer to this book for information on precautions you should take. Please contact me if you feel you need anything to assure your safe working conditions.

Kirby-Vass Insulation, Inc.  
Tom Kirby

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Revised 04/19/2012



# KIRBY-VASS INSULATION INC.

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PO Box 19345 Roanoke, VA 24019  
263 Industrial Drive Hollins, VA 24019

ph. (540) 992-3960  
fax (540) 992-4796

## ***Safety Plan Receipt Acknowledgement***

*I hereby acknowledge receipt of the Kirby-Vass Insulation, Inc. Safety Plan (5 pages) and agree to abide by the rules and policies in it, along with any additional job imposed safety rules, policies, and/or regulations during my employment. I fully understand that failure to work safely and to comply with any company or jobsite safety policy or any regulatory agency requirements may result in my termination.*

*I understand that as one of the requirements of my employment, that in the event I am injured while in the course of my work, I shall report such injury immediately to Kirby-Vass safety personnel and obtain the necessary treatment.*

*In case of an emergency, please notify:  
Kirby-Vass Insulation Inc.  
263 Industrial Drive  
Hollins, VA 24019  
Phone # (540) 992-3960*

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*Name*

---

*Signature*

---

*Date Received*

to the job site foreman who shall let the superintendent know as soon as possible.

- B. The Safety officer shall be responsible for filing an accident report with the insurance carrier within 24 hours of an accident.
- C. The superintendent shall investigate all accidents, determine the cause, and take corrective action.
- D. Accidents and job related illnesses will be recorded in the OSHA 200 Log. They shall be reviewed by management monthly, quarterly, and annually to see where improvements need to be made.
- E. Reports shall be made to customers as required.

## **SAFETY ENFORCEMENT AND DISCIPLINARY PROGRAM**

Safety is our number one goal at Kirby-Vass Insulation. Unsafe work practices will not be tolerated. If you put yourself or anyone else in danger, you are subject to:

- 1. Dismissal**
- 2. Suspension**
- 3. Removal from a job site**
- 4. Demotion**

Disciplinary action is at the discretion of management.

Charlie Vass, Kenny Smith, and Les Switzer as superintendents, and Greg Cundiff/Becky Montgomery as Safety Officer will supervise and enforce the safety plan. They are to be assisted by all foremen and crew members.

### **III. Employee Training**

#### **A. New Employee Orientation**

1. Provide with safety plan.
2. Superintendent should review policy with the new employee.
3. Foreman shall keep a close eye on new employees until they have shown that they know good work habits and are practicing them.

#### **B. Special Training**

1. Superintendent shall inform the foremen of any special safety problems or regulations at a particular job site. The superintendent will train the foremen.
2. The Foremen will train the crew.
3. Safety office shall assist as needed.

#### **C. Foreman Training**

1. Whenever an employee is put in charge of a job, the superintendent shall train him. They shall review policy.
2. The new foreman will be made aware that he is now responsible for safety on his job and he is to report any problems.

#### **D. Safety Meetings**

1. Safety Meetings shall be held weekly at the job site for all employees using material provided by the office.
2. Questions and concerns will also be discussed.

### **IV. Vehicle Safety**

- A. Follow all laws and customer regulations.
- B. Driving record is subject to review by Kirby-Vass and our insurance carrier.
- C. Permission to drive can be refused at any time at management's discretion.

### **V. Hazard Communication Program**

- A. Made a part of this safety program per enclosed copy.
- B. Employees keep a copy with them at all times.

### **VI. Substance Abuse Policy**

- A. Made a part of this safety policy per enclosed copy.
- B. Information to be made available to customers as required by contractual obligations.

### **VII. Accident Reporting**

- A. Accidents are to be reported to the office on the day they occur. If this is not possible because they happened while the office is closed, they shall be reported

2. Do not treat serious injuries. You may do more harm than good. GET HELP.
3. Control bleeding with pressure until help arrives.
4. Know where facilities are located.

## **L. Emergency Procedures**

1. On each new job, make yourself aware of procedures and have a plan ready.

## **M. Signs, Barricades, Flagging**

1. Obey all safety signs and flags.
2. Do not enter barricaded areas without permission.

## **N. Rigging and Cranes**

1. Stay out from under.
2. Do not use as personnel hoists.
3. Be careful around power lines.
4. Do not overload
5. Use only when operated by a trained operator.

## **O. Miscellaneous**

1. NEVER WORK UNDER UNSAFE CONDITIONS OR IN AN UNSAFE MANNER.
2. If working where equipment could injure you, lock it out with our lock and tag it so the operator knows you are working.
3. We should never work in a confined space. If it becomes necessary to do so, check with the office before proceeding for special instruction.
4. Do not open equipment or pipe valves unless you have permission from the customer and know that you can do so in a safe manner. Never lower more than one hanger at a time.
5. The job foreman is responsible for knowing who is present at the job site at all times. Employees shall inform him upon arrival and whenever leaving a job site. Log in if required by the customer.
6. Know emergency plans and exits for job sites.
7. Employees will be informed of any special medical problems involved with working at a job site and precautions they need to take as management becomes aware of them.

## **P. Fall Protection**

1. All employees will be trained in Fall Protection in Construction by the Safety Director, Becky Montgomery or such other official as designated periodically by KVI.
2. All employees will follow Kirby-Vass & Firestop's Fall Prevention and Protection Policy.
3. Any employee that does not follow the Fall Protection Policy will be subject to a disciplinary action. (See Disciplinary Action on page 5)

### **C. Power Tools and Hand Tools**

1. Do not use tools unless they are safe whether provided by the company or personal.
2. All safety guards, devices, and grounds shall be in place and used.
3. Remove any defective tools from the work site.
4. Inspect all tools daily

### **D. Welding, Grinding, & Cutting**

1. Only employees who have welding experience shall weld unless being trained.
2. Wear eye protection.
3. Use portable band saw or chop saw for cutting—no torch.

### **E. Electrical**

1. Use only three prong extension cords in good shape. 14 gauge extension cords only. Inspect cords daily.
2. Treat all electrical wires as live.
3. Report any dangling wires.

### **F. Ladders**

1. Do Not Use if Damaged.
2. Over 20' up, tie off.
3. Tie down extension ladders.
4. Do not stand on top two steps of step ladders.

### **G. Scaffolds**

1. Any scaffolding with a 6' work platform must have toe boards.
2. If wheels used, secure with tie wire.
3. Follow all regulations.

### **H. Trenches**

1. Do Not work in trenches more that 5' deep unless shored or faded back to a stable slope.

### **I. Hearing Protection—When Sound Levels Exceed Permissible Levels**

1. Eliminate source of noise if possible.
2. Use ear protective devices.

### **J. Fire Protection**

1. Be careful not to start a fire.
2. If a fire does start: Sound the alarm, put out, if possible; and if not possible, stand by to direct the firefighters on arrival.

### **K. First Aid**

1. Treat minor injuries, but report all injuries.

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## **SAFETY PLAN**

It is the policy of this company to provide a safe work environment, to abide by all government regulations, to abide by all customer requirements and to practice safe work habits.

### **I. Safety Responsibility**

#### **A. Safety Officer**

1. Direct Safety Program
2. Keep employees informed of changes in regulations and practices.
3. Keep employees informed of special requirements of customers.
4. Review accidents and take corrective action.
5. Train Foremen and Superintendents

#### **B. Superintendents and Foremen**

1. Enforce Safety policy at job sites
2. Train employees.
3. Assure that safety devices are used.
4. Assure that accidents are reported properly.
5. Investigates accidents and takes corrective action

#### **C. Crew Members**

1. Work Safely
2. Follow rules and regulations
3. Use Safety Devices
4. Read Safety Data Sheets and follow instructions
5. Keep Safety Data Sheets with you at all times
6. Report possible safety problems to the safety officer or the superintendent
7. No Horseplay
8. Do not work while under the influence of Drugs or Alcohol

### **II. Safety Rules and Procedures**

#### **A. Personal Protection Equipment**

1. Hard Hats – Wear at all times
2. Safety Glasses, steel toed boots, respirators, and safety harnesses – where required by customer, regulation, and where conditions require
3. Class II Safety Vest

#### **B. Housekeeping**

1. This is the first rule of safety. Maintain a clean work area at all times.

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|--|---|----------------------|--------------------|------------------------------------|
| <b>Kirby-Cundiff Insulation, Inc./Firestop of Virginia, Inc.</b> | Kirby-Cundiff Insulation, Inc./Firestop of Virginia, Inc.<br>Safety Management System |                      | Doc No:            | HAZCOM                             |
|  |   |                      | Initial Issue Date | 10/02/2017                         |
|  |   |                      | Revision Date:     | Initial Version                    |
| <b>HAZARD COMMUNICATION – (HAZCOM)</b>                           |   |                      | Revision No.       | 0                                  |
|  |   |                      | Next Review Date:  | 10/2018                            |
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cover categories of hazards (e.g., flammability, carcinogenicity) or specific chemicals. Chemical-specific information must always be available through labels and safety data sheets.

Additional training will be provided whenever a new chemical hazard is introduced into the work area. To reinforce the importance of handling chemicals properly when performing new or non-routine tasks supervisors will conduct supplementary training as needed.

Formal training will be conducted by facility employees or individuals who are knowledgeable in the Hazard Communication program.

The Hazard Communication Program documented training shall, as a minimum, include:

- Requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200 (General Industry) or 29 CFR 1926.59 (Construction Industry).
- Operations in the work area where hazardous chemicals are present.
- Location and availability of the hazard communication program, chemical inventory list and SDSs.
- Methods and observations used to detect the presence or release of a hazardous chemical in the work area, such as monitoring devices, visual appearance or odor of hazardous chemicals when being released.
- Explanation of the labels received on shipped containers.
- Explanation of the workplace labeling system.
- Explanation of the SDS, including order of information and how employees can obtain and use the appropriate hazard information.

The Manager shall ensure records of employee training are maintained.


## Implementation Requirement

### Per OSHA Requirements

| Effective Completion Date                                       | Requirement(s)   | Who  |
|---|--|--|
| December 1, 2013  | Train employees on the new label elements and safety data sheet (SDS) format.  | Employers  |
| June 1, 2015*   | Compliance with all modified provisions of this final rule, except:  | Chemical manufacturers, importers, distributors and employers  |
| December 1, 2015  | The Distributor shall not ship containers labeled by the chemical manufacturer or importer unless it is a GHS label  |  |
| June 1, 2016  | Update alternative workplace labeling and hazard communication program as necessary, and provide additional employee training for newly identified physical or health hazards. | Employers  |
| Transition Period to the effective completion dates noted above | May comply with either 29 CFR 1910.1200 (the final standard), or the current standard, or both   | Chemical manufacturers, importers, distributors, and employers |

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#### Example Label

|   |
|---|
| <b>HS85</b><br>Batch number: 85L6543  |
|    |
| <b>Warning</b><br>Harmful if swallowed  |
| Wash hands and face thoroughly after handling. Do not eat, drink or smoke when using this product. Dispose of contents/container in accordance with local, state and federal regulations. |
| <b>First aid:</b><br>If swallowed: Call a doctor if you feel unwell. Rinse mouth.   |
| <div style="display: flex; justify-content: space-between;"> <span>GHS Example Company, 123 Global Circle, Anyville, NY 130XX</span> <span>Telephone (888) 888-8888</span> </div>         |

### **Multi-Employer Job Sites and/or Multi Work Site**

Chemical information is provided to employees on multiple worksites or multiple employer worksites.

The following specific methods for providing other employer information concerning hazardous chemicals at job sites, methods of providing SDS sheets, methods of precautionary measures to be taken and methods of providing information on labeling systems:

#### Multi-Work Sites

Where employees must travel between work places during a work shift (multi job sites), the written program may be kept at a primary job site. If there is no primary, then the program should be sent with employees.

#### Multi-Employer Job Sites

A pre-job briefing shall be conducted with the contractor prior to the initiation of work on the site.

- During this pre-job briefing, contractors shall notify Kirby-Cundiff/Firestop of Virginia and present current copies of Safety Data Sheets and label information for every hazardous chemical brought on-site.
- Kirby-Cundiff/Firestop of Virginia shall notify and provide required SDS and label information for all hazardous chemicals the contractor may encounter on the job.
- The facilities labeling system and any precautionary measures to be taken by contractor during normal conditions and emergencies shall be addressed.
- By providing such information to other employers, Kirby-Cundiff/Firestop of Virginia does not assume any obligations that other employers have for the safety of their employees.

### **Training**

Employees are provided with information and training on the hazardous chemicals they may be exposed to. Employees shall be provided with effective information and training on hazardous chemicals in their work area at the time of their initial assignment, and whenever a new physical or health hazard the employees have not previously been trained about is introduced into their work area. Information and training may be designed to



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|  |  |  |
|--|--|--|
| <b>Health Hazard</b><br><br><ul style="list-style-type: none"> <li>• Carcinogen</li> <li>• Mutagenicity</li> <li>• Reproductive Toxicity</li> <li>• Respiratory Sensitizer</li> <li>• Target Organ Toxicity</li> <li>• Aspiration Toxicity</li> </ul> | <b>Flame</b><br><br><ul style="list-style-type: none"> <li>• Flammables</li> <li>• Pyrophorics</li> <li>• Self-Heating</li> <li>• Emits Flammable Gas</li> <li>• Self-Reactives</li> <li>• Organic Peroxides</li> </ul> | <b>Exclamation Mark</b><br><br><ul style="list-style-type: none"> <li>• Irritant (skin and eye)</li> <li>• Skin Sensitizer</li> <li>• Acute Toxicity (harmful)</li> <li>• Narcotic Effects</li> <li>• Respiratory Tract Irritant</li> <li>• Hazardous to Ozone Layer (Non-Mandatory)</li> </ul> |
| <b>Gas Cylinder</b><br><br><ul style="list-style-type: none"> <li>• Gases Under Pressure</li> </ul>   | <b>Corrosion</b><br><br><ul style="list-style-type: none"> <li>• Skin Corrosion/ Burns</li> <li>• Eye Damage</li> <li>• Corrosive to Metals</li> </ul>  | <b>Exploding Bomb</b><br><br><ul style="list-style-type: none"> <li>• Explosives</li> <li>• Self-Reactives</li> <li>• Organic Peroxides</li> </ul>  |
| <b>Flame Over Circle</b><br><br><ul style="list-style-type: none"> <li>• Oxidizers</li> </ul>   | <b>Environment (Non-Mandatory)</b><br><br><ul style="list-style-type: none"> <li>• Aquatic Toxicity</li> </ul>  | <b>Skull and Crossbones</b><br><br><ul style="list-style-type: none"> <li>• Acute Toxicity (fatal or toxic)</li> </ul>  |

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Damaged labels or labels with incomplete information shall be reported immediately.

Workplace labels or other forms of warning will be legible, in English and prominently displayed on the container or readily available in the work area throughout each work shift.

If employees speak languages other than English, the information in the other language(s) may be added to the material presented if the information is presented in English as well.

Kirby-Cundiff/Firestop of Virginia will use the GHS labeling system for secondary containers.

Portable containers into which hazardous chemicals are transferred from labeled containers and that are intended for the immediate use of the employee who performs the transfer do not require a label.

If the portable container will be used by more than one employee or used over the course of more than one shift, the container must be labeled.

Received from vendors that are not properly labeled must be rejected.

Pictograms and Hazards

|   |   |                      |                    |                                    |
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The purchasing of any potentially hazardous chemical products from any supplier that does not provide an appropriate Safety Data Sheet in a timely fashion is prohibited.

Safety Data Sheets (SDS) are readily available to employees. SDSs shall be maintained and readily accessible in each work area. SDSs can be maintained at the primary work site. However, they should be available in case of an emergency. SDS must be made available, upon request, to employees, their designated representatives, the Assistant Secretary and the Director.

The Safety Data Sheet must be kept in the SDS library for as long as the chemical is used by the facility.

Electronic access (telephone (540)992-3960, fax (540)992-4796, internet (kcfsv.com), job sites, etc.) may be used to acquire and maintain SDS libraries and archives.

The Manager is responsible for seeing that the Chemical Inventory List inventory is maintained, is current and is complete. He/she will review Chemical Inventory List at least annually. When a hazardous material has been permanently removed from the work place, its SDS is to be removed from the Chemical Inventory List.

SDS' for hazardous materials to which Kirby-Cundiff/Firestop of Virginia employees have been exposed must be maintained after the employee leaves the employment of Kirby-Cundiff/Firestop of Virginia.

#### Methods to be Used to Inform Employees of the Hazards of Non-Routine Tasks

The methods that Kirby-Cundiff/Firestop of Virginia will use to inform employees of the hazards of non-routine tasks (i.e., the cleaning of reactor vessels, etc.) and the hazards associated with chemicals contained in unlabeled pipes in their work areas include:

- Conducting a Job Hazard Assessment (JSA).
- Employees will be advised of methods and special precautions, PPE and the hazards associated with chemicals and the hazards associated with chemicals contained in unlabeled pipes in their work areas.
- In the unlikely event that such tasks are required, the supervisor, or designee, will provide a SDS for the involved chemical.

#### The Use and Care of Labels and Other Forms of Warning

Containers of hazardous chemicals are labeled. Container labels should contain the following information:

- Product identifier
- Signal word
- Hazard statement
- Pictogram(s)
- Precautionary statement(s), and
- Name, address and telephone number of the chemical manufacturer, importer or other responsible party.

The Manager will ensure that all hazardous chemicals used or stored in the facility are properly labeled.

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- Maintaining a list of all hazardous chemicals and a master file of SDSs.
- Ensuring that all containers are labeled, tagged or marked properly.
- Providing new-hire and annual training for employees.
- Maintaining training records.
- Identifying hazardous chemicals used in nonroutine tasks and assessing their risks.
- Informing outside contractors who are performing work on property Kirby-Cundiff/Firestop of Virginia about potential hazards.
- Reviewing the effectiveness of the hazard communication program and making sure that the program satisfies the requirements of all applicable federal, state or local hazard communication requirements.

### Employees

- Employees are responsible for following the requirements in the Hazard Communication Program.
- Any employee who transfers any material from one container to another is responsible for labeling the new container with all required information.
- All employees are responsible for learning the requirements of this section and for applying them to their daily work routine.
- Identifying hazards before starting a job.
- Reading container labels and SDSs.
- Notifying the supervisor of torn, damaged or illegible labels or of unlabeled containers.
- Using controls and/or personal protective equipment provided by the company to minimize exposure.
- Following company instructions and warnings pertaining to chemical handling and usage
- Properly caring for personal protective equipment, including proper use, routine care and cleaning, storage and replacement.
- Knowing and understanding the consequences associated with not following Kirby-Cundiff/Firestop of Virginia policy concerning the safe handling and use of chemicals.
- Participating in Kirby-Cundiff/Firestop of Virginia training.

### Procedure

#### List of Hazardous Chemicals

An inventory/list of hazardous chemicals is maintained. An inventory of all hazardous chemicals used by Kirby-Cundiff/Firestop of Virginia should be maintained. Each chemical on the list should have the same name as shown on its corresponding Safety Data Sheet (SDS).

The Hazardous Chemical List is updated as necessary and at least annually by the Safety Manager or their designee. The Hazardous Chemical List must be available for review upon request.

#### Safety Data Sheets (SDS)

Safety Data Sheets (SDS) are obtained for all hazardous chemicals. Chemical manufacturers are responsible for developing SDSs. Kirby-Cundiff/Firestop of Virginia shall have a SDS for each chemical used.

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## Purpose

The purpose of this program is to ensure the safe use of hazardous chemical substances and to comply with the requirements of OSHA HCS 2012.

## Introduction

In 2012, OSHA revised the Hazard Communication Standard (HCS) to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS). As a result, this Hazard Communication Program (HCP) has been revised to comply with the requirements of the OSHA HCS 2012.

It spells out how Kirby-Cundiff/Firestop of Virginia will inventory chemicals stored and used, obtain and use Safety Data Sheets, maintain labels on chemical substances and train employees about the hazards of chemicals they are likely to encounter on the job.

Preparation of this program indicates our continuing commitment to safety among our employees in all our locations.

- Each facility is expected to follow this program and maintain its work areas in accordance with these requirements.
- Employees, their designated representatives, and government officials must be provided copies of this program upon request.
- In addition to the program, other information required as part of our hazard communication effort is available to workers upon request.
- Asking to see this information is an employee's right.
- Using this information is part of our shared commitment to a safe, healthy workplace.

## Scope

This program is applicable to all Kirby-Cundiff/Firestop of Virginia employees who may be exposed to hazardous chemical substances. When work is performed on a non-owned or operated site, the operator's program shall take precedence, however, this document covers employees for Kirby-Cundiff/Firestop of Virginia and contractors and shall be used on owned premises, or when an operator's program doesn't exist or is less stringent.

## Responsibilities

Kirby-Cundiff/Firestop of Virginia has a written Hazard Communication program. A written hazard communication program shall be developed, implemented, and maintained at each workplace that describes how labels and other forms of warning, safety data sheets, and employee information will be met.

## Safety Manager or Designee

The Safety Manager, or designee, is responsible for administering the hazard communication program. This person is also responsible for:

- Reviewing the potential hazards and safe use of chemicals.



**CONTROL MEASURES AND PERSONAL PROTECTIVE EQUIPMENT**

|                                |  |
|--------------------------------|--|
| <b>Ventilation:</b>            | General (natural or mechanically induced fresh air movements). |
| <b>Eye Protection:</b>         | As appropriate for the work area or the work being done.       |
| <b>Skin Protection:</b>        | Not required.  |
| <b>Respiratory Protection:</b> | Not applicable.  |

**PRECAUTIONS FOR SAFE HANDLING AND USE**

|  |   |
|--|---|
| <b>Handling and Storing Precautions:</b> | For industrial use only. Keep out of reach of children. Observe good hygiene practices; i.e. wash after using and before eating or smoking. Store in a cool dry area out of direct sunlight. Storage above 140 F may degrade product. |
| <b>Spill Procedures:</b>                 | Not applicable  |

**REGULATORY INFORMATION**

|                                     |  |
|-------------------------------------|--|
| <b>Hazard Communication:</b>        | This MSDS has been prepared in accordance with the federal OSHA Hazard Communication Standard. 29 CFR 1910.1200.   |
| <b>HMIS Codes:</b>                  | Health 0, Flammability 0, Reactivity 0, PPE A  |
| <b>DOT Shipping Name:</b>           | Not regulated.   |
| <b>IATA / ICAO Shipping Name:</b>   | Not regulated.   |
| <b>TSCA Inventory Status:</b>       | Chemical components listed on TSCA inventory.  |
| <b>SARA Title III, Section 313:</b> | This product is classified as an "article" and is not subject to reporting under Section 313 of SARA Title III (40 CFR Part 372).  |
| <b>EPA Waste Code(s):</b>           | Not regulated by EPA as a hazardous waste  |
| <b>Waste Disposal Methods:</b>      | Consult with regulatory agencies or your corporate personnel for disposal methods that comply with local, state, and federal safety, health and environmental regulations. |

**CONTACTS**

|                                 |  |                           |                |
|---------------------------------|--|---------------------------|----------------|
| <b>Customer Service:</b>        | 1 800 879 8000   | <b>Technical Service:</b> | 1 800 879 8000 |
| <b>Health / Safety:</b>         | 1 800 879 6000   | Jerry Metcalf             | (x1003704)     |
| <b>Emergency # (Chem-Trec):</b> | 1 800 424 9300 (USA, PR, Virgin Islands, Canada); 001 703 527 3887 (other countries) |                           |                |

The information and recommendations contained herein are based upon data believed to be correct; however, no guarantee or warranty of any kind expressed or implied is made with respect to the information provided.



## MATERIAL SAFETY DATA SHEET

**Product name:** CFS -BL Firestop Block; CFS-PL Firestop Plug  
**Description:** Intumescent polyurethane foam  
**Supplier:** Hilti, Inc. P.O. Box 21148, Tulsa, OK 74121  
**Emergency # (Chem-Trec.):** 1 800 424 9300 (USA, PR, Virgin Islands, Canada); 001 703 527 3887 (other countries)

## INGREDIENTS AND EXPOSURE LIMITS

These products are regarded as "articles" by definition under OSHA Regulation 29 CFR 1910.1200 (c). CFS-PL / CFS-BL can best be described as a sponge-like polyurethane materials, which expand when exposed to excessive heat/fire conditions. The physical form of the products preclude exposure to workers under normal conditions of use or any foreseeable emergency.

## PHYSICAL DATA

|                                 |                             |                             |  |
|---------------------------------|-----------------------------|-----------------------------|--|
| <b>Appearance:</b>              | Rust colored foam block     | <b>Odor:</b>                | None                                     |
| <b>Vapor Density: (air = 1)</b> | Not applicable              | <b>Vapor Pressure:</b>      | Not applicable                           |
| <b>Ignition Point:</b>          | 420° C / 788° F             | <b>VOC Content:</b>         | CFS - BL = 5.4 g/l<br>CFS - PL = 4.9 g/l |
| <b>Evaporation Rate:</b>        | Not applicable              | <b>Solubility in Water:</b> | Not soluble                              |
| <b>Specific Gravity:</b>        | 0.24 -.30 g/cm <sup>3</sup> | <b>pH:</b>                  | Not applicable                           |

## FIRE AND EXPLOSION HAZARD DATA

|  |                |                          |                |
|--|----------------|--------------------------|----------------|
| <b>Flash Point:</b>                        | Not applicable | <b>Flammable Limits:</b> | Not applicable |
| <b>Extinguishing Media:</b>                | Not applicable |                          |                |
| <b>Special Fire Fighting Procedures:</b>   | Not applicable |                          |                |
| <b>Unusual Fire and Explosion Hazards:</b> | None known     |                          |                |

## REACTIVITY DATA

|                                |   |                                  |                 |
|--------------------------------|---|----------------------------------|-----------------|
| <b>Stability:</b>              | Stable.   | <b>Hazardous Polymerization:</b> | Will not occur. |
| <b>Incompatibility:</b>        | None known; see special handling and storage instructions                                     |                                  |                 |
| <b>Decomposition Products:</b> | If heated to decomposition, can yield CO <sub>x</sub> , NO <sub>x</sub> , HCN, HCl, and/or HF |                                  |                 |
| <b>Conditions to Avoid:</b>    | See handling and storage requirements.  |                                  |                 |

## HEALTH HAZARD DATA

|   |   |                            |               |
|---|---|----------------------------|---------------|
| <b>Known Hazards:</b>                             | None known  | <b>Routes of Exposure:</b> | None expected |
| <b>Signs and Symptoms of Exposure:</b>            | None expected   |                            |               |
| <b>Carcinogenicity:</b>                           | No ingredients are classified as a carcinogen by IARC, NTP or OSHA. |                            |               |
| <b>Medical Conditions Aggravated by Exposure:</b> | None known  |                            |               |

## EMERGENCY AND FIRST AID PROCEDURES

|                   |   |                    |                         |
|-------------------|---|--------------------|-------------------------|
| <b>Skin:</b>      | No effects expected   | <b>Inhalation:</b> | Not a route of exposure |
| <b>Eyes:</b>      | No effects expected.  |                    |                         |
| <b>Ingestion:</b> | Not a likely route of exposure  |                    |                         |
| <b>Other:</b>     | Referral to a physician is recommended if there is any question about the seriousness of any injury/exposure. |                    |                         |

**CONTROL MEASURES AND PERSONAL PROTECTIVE EQUIPMENT**

|                                |   |
|--------------------------------|---|
| <b>Ventilation:</b>            | General (natural or mechanically induced fresh air movements).  |
| <b>Eye Protection:</b>         | While spraying, chemical goggles are recommended. As a minimum, wear safety glasses with side shields.  |
| <b>Skin Protection:</b>        | Impermeable (neoprene or rubber) gloves recommended. Use other protective clothing as required to prevent skin contact when spraying product. |
| <b>Respiratory Protection:</b> | None normally required.   |

**PRECAUTIONS FOR SAFE HANDLING AND USE**

|  |  |
|--|--|
| <b>Handling and Storing Precautions:</b> | Store in a cool dry area. Keep from freezing. Store between 41° and 77° F. For industrial use only. Keep out of reach of children. Use with adequate ventilation. Keep container closed when not in use. Do not get into the eyes. Avoid prolonged or repeated contact with the skin. Practice good hygiene; i.e. wash after using and before eating or smoking. |
| <b>Spill Procedures:</b>                 | Wipe away spilled material before it hardens. Place in a container for proper disposal in accordance with all applicable local, state, or federal requirements.  |

**REGULATORY INFORMATION**

|                                     |  |
|-------------------------------------|--|
| <b>Hazard Communication:</b>        | This MSDS has been prepared in accordance with the federal OSHA Hazard Communication Standard. 29 CFR 1910.1200.   |
| <b>HMIS Codes:</b>                  | Health 1, Flammability 0, Reactivity 0, PPE B (Glasses, Gloves)  |
| <b>DOT Shipping Name:</b>           | Not regulated.   |
| <b>IATA / ICAO Shipping Name:</b>   | Not regulated.   |
| <b>TSCA Inventory Status:</b>       | Chemical components listed on TSCA inventory.  |
| <b>SARA Title III, Section 313:</b> | This product does not contain any chemicals which are subject to reporting under Section 313 of SARA Title III (40 CFR Part 372).  |
| <b>EPA Waste Code(s):</b>           | Not regulated by EPA as a hazardous waste  |
| <b>Waste Disposal Methods:</b>      | Consult with regulatory agencies or your corporate personnel for disposal methods that comply with local, state, and federal safety, health and environmental regulations. |

**CONTACTS**

|                                 |  |                           |                |
|---------------------------------|--|---------------------------|----------------|
| <b>Customer Service:</b>        | 1 800 879 8000   | <b>Technical Service:</b> | 1 800 879 8000 |
| <b>Health / Safety:</b>         | 1 800 879 6000   | Jerry Metcalf             | (x1003704)     |
| <b>Emergency # (Chem-Trec):</b> | 1 800 424 9300 (USA, PR, Virgin Islands, Canada); 001 703 527 3887 (other countries) |                           |                |

The information and recommendations contained herein are based upon data believed to be correct; however, no guarantee or warranty of any kind expressed or implied is made with respect to the information provided.



## MATERIAL SAFETY DATA SHEET

**Product name:** CFS-SP WB Firestop Joint Spray  
**Description:** Fire rated mastic for construction joints  
**Supplier:** Hilti, Inc. P.O. Box 21148, Tulsa, OK 74121  
**Emergency # (Chem-Trec.):** 1 800 424 9300 (USA, PR, Virgin Islands, Canada); 001 703 527 3887 (other countries)

## INGREDIENTS AND EXPOSURE LIMITS

This is not a Hazardous Material as defined in the OSHA Hazard Communication Standard

### PHYSICAL DATA

|                                 |                                     |                             |                |
|---------------------------------|-------------------------------------|-----------------------------|----------------|
| <b>Appearance:</b>              | Red, grey, or white sprayable paste | <b>Odor:</b>                | Mild odor      |
| <b>Vapor Density: (air = 1)</b> | Not applicable                      | <b>Vapor Pressure:</b>      | Not determined |
| <b>Boiling Point:</b>           | Not determined                      | <b>VOC Content:</b>         | 34 g/l         |
| <b>Evaporation Rate:</b>        | Not determined                      | <b>Solubility in Water:</b> | Soluble        |
| <b>Specific Gravity:</b>        | 1.3                                 | <b>pH:</b>                  | 8.0 - 9.0      |

### FIRE AND EXPLOSION HAZARD DATA

|  |   |                          |                |
|--|---|--------------------------|----------------|
| <b>Flash Point:</b>                        | None  | <b>Flammable Limits:</b> | Not applicable |
| <b>Extinguishing Media:</b>                | As appropriate for surrounding fire (e.g. Water, Carbon Dioxide, Dry Chemical, Foam)  |                          |                |
| <b>Special Fire Fighting Procedures:</b>   | A NIOSH-approved self-contained breathing apparatus (SCBA) should be worn when fighting fires involving chemicals.                      |                          |                |
| <b>Unusual Fire and Explosion Hazards:</b> | None known. Thermal decomposition products such as carbon monoxide and carbon dioxide can be produced under fire conditions. See below. |                          |                |

### REACTIVITY DATA

|                                |   |                                  |                 |
|--------------------------------|---|----------------------------------|-----------------|
| <b>Stability:</b>              | Stable.   | <b>Hazardous Polymerization:</b> | Will not occur. |
| <b>Incompatibility:</b>        | None known  |                                  |                 |
| <b>Decomposition Products:</b> | Thermal decomposition can yield carbon monoxide and carbon dioxide.   |                                  |                 |
| <b>Conditions to Avoid:</b>    | Avoid temperature extremes which could shorten the shelf-life of this product; i.e. below 40° and above 77° F. (See handling and storage requirements). |                                  |                 |

### HEALTH HAZARD DATA

|   |   |
|---|---|
| <b>Known Hazards:</b>                             | <b>Acute:</b> No effects expected; irritation is possible. <b>Chronic:</b> None known   |
| <b>Signs and Symptoms of Exposure:</b>            | <b>Eyes:</b> Can cause irritation or watering but injury is unlikely. <b>Skin:</b> Irritation is possible with some individuals. <b>Inhalation:</b> No effects expected. <b>Ingestion:</b> Effects of ingestion have not been determined. Considered to have a low acute oral toxicity. |
| <b>Routes of Exposure:</b>                        | Contact.  |
| <b>Carcinogenicity:</b>                           | No ingredients are classified as a carcinogen by IARC, NTP or OSHA.   |
| <b>Medical Conditions Aggravated by Exposure:</b> | None known  |

## EMERGENCY AND FIRST AID PROCEDURES

|                    |   |
|--------------------|---|
| <b>Eyes:</b>       | Flush with plenty of water. Contact a Physician if symptoms occur.  |
| <b>Skin:</b>       | Wash with soap and water. Seek medical attention if any effects persist.                                      |
| <b>Inhalation:</b> | Move victim to fresh air. Contact a Physician if symptoms occur.  |
| <b>Ingestion:</b>  | Do not induce vomiting unless directed by a Physician. Contact a Physician immediately.                       |
| <b>Other:</b>      | Referral to a Physician is recommended if there is any question about the seriousness of the injury/exposure. |



## MATERIAL SAFETY DATA SHEET

**Product name:** FS-ONE High Performance Intumescent Firestop Sealant  
**Description:** One-part acrylic-based sealant  
**Supplier:** Hilti, Inc. P.O. Box 21148, Tulsa, OK 74121  
**Emergency # (Chem-Trec.):** 1 800 424 9300 (USA, PR, Virgin Islands, Canada); 001 703 527 3887 (other countries)

## INGREDIENTS AND EXPOSURE LIMITS

| Ingredients:            | CAS Number: | PEL:                     | TLV:                    | STEL:                       |
|-------------------------|-------------|--------------------------|-------------------------|-----------------------------|
| Polyacrylate dispersion | Mixture     | NE                       | NE                      | NE                          |
| Calcium carbonate       | 001317-65-3 | 5 mg/m <sup>3</sup> (R)  | NE                      | NE                          |
| Zinc borate             | 138265-88-0 | NE                       | NE                      | NE                          |
| Talc                    | 014807-96-6 | 20 mppcf                 | 2 mg/m <sup>3</sup> (R) | NE                          |
| Ethylene glycol         | 000107-21-1 | NE                       | NE                      | C:100 mg/m <sup>3</sup> (A) |
| Iron oxide              | 001309-37-1 | 10 mg/m <sup>3</sup> (F) | 5 mg/m <sup>3</sup> (R) | NE                          |

**Abbreviations:** PEL = OSHA Permissible Exposure Limit. TLV = ACGIH Threshold Limit Value. C = Ceiling. STEL = Short Term Exposure Limit. NE = None Established. NA = Not Applicable. (T) indicates "as total dust". (R) indicates "as respirable fraction". (A) indicates "as an aerosol". mppcf = million particles per cubic foot. F = Fume

## PHYSICAL DATA

|                                 |                 |                             |                    |
|---------------------------------|-----------------|-----------------------------|--------------------|
| <b>Appearance:</b>              | Red paste.      | <b>Odor:</b>                | Odorless.          |
| <b>Vapor Density: (air = 1)</b> | Not determined. | <b>Vapor Pressure:</b>      | 23mbar @ 20C / 68F |
| <b>Boiling Point:</b>           | Not applicable. | <b>VOC Content:</b>         | 75.0 g/L.          |
| <b>Evaporation Rate:</b>        | Not applicable. | <b>Solubility in Water:</b> | Soluble.           |
| <b>Specific Gravity:</b>        | 1.5             | <b>pH:</b>                  | Not determined.    |

## FIRE AND EXPLOSION HAZARD DATA

|  |  |                          |                 |
|--|--|--------------------------|-----------------|
| <b>Flash Point:</b>                        | Non-flammable.   | <b>Flammable Limits:</b> | Not applicable. |
| <b>Extinguishing Media:</b>                | Not applicable. Use extinguishing media as appropriate for surrounding fire.                               |                          |                 |
| <b>Special Fire Fighting Procedures:</b>   | None known. Use a self-contained breathing apparatus when fighting fires involving chemicals.              |                          |                 |
| <b>Unusual Fire and Explosion Hazards:</b> | None known. Thermal decomposition products can be formed such as oxides of carbon, sulfur and phosphorous. |                          |                 |

## REACTIVITY DATA

|                                |  |                                  |                 |
|--------------------------------|--|----------------------------------|-----------------|
| <b>Stability:</b>              | Stable.  | <b>Hazardous Polymerization:</b> | Will not occur. |
| <b>Incompatibility:</b>        | Strong acids, peroxides, and oxidizing agents.           |                                  |                 |
| <b>Decomposition Products:</b> | Thermal decomposition can yield CO and CO <sub>2</sub> . |                                  |                 |
| <b>Conditions to Avoid:</b>    | None known.  |                                  |                 |

## HEALTH HAZARD DATA

|   |  |
|---|--|
| <b>Known Hazards:</b>                             | None known.  |
| <b>Signs and Symptoms of Exposure:</b>            | Possibly irritating upon contact with the eyes or upon repeated contact with the skin. |
| <b>Medical Conditions Aggravated by Exposure:</b> | Eye and skin conditions.   |
| <b>Routes of Exposure:</b>                        | Dermal.  |
| <b>Carcinogenicity:</b>                           | No ingredients are classified as carcinogens.  |

# MATERIAL SAFETY DATA SHEET

This MSDS complies with OSHA's Hazard Communication Standard 29 CFR 1910.1200 and OSHA Form 174

| IDENTITY AND DISTRIBUTOR'S INFORMATION   |  |   |                   |                    |                              |
|--|--|---|-------------------|--------------------|------------------------------|
| HFA Rating: Health-2; Flammability-3; Reactivity-0; Special-0  |  | HMS Rating: Health-2; Flammability-3; Reactivity-0; Personal Protection-B |                   |                    |                              |
| Manufactured For: AmRep  |  | DOT Hazard Classification: ORM-D  |                   |                    |                              |
| Address: 990 Industrial Park Drive   |  | Identity (trade name as used on label):                                   |                   |                    |                              |
| Address: Marietta, Georgia 30062   |  | Prostick-Adhesive Spray BWI   |                   |                    |                              |
| Phone: 800-666-AMREP   | MSDS Number: 309   |   | Revision: 3       |                    |                              |
| Emergency Response Number:   | Date Prepared: 12/6/01   | Prepared By: IB/TR  |                   |                    |                              |
| NOTICE: JUDGEMENT BASED ON INDIRECT TEST DATA  |  | Information Calls: (770)422-2071  |                   |                    |                              |
| SECTION 1 - MATERIAL IDENTIFICATION AND INFORMATION  |  |   |                   |                    |                              |
| COMPONENTS-CHEMICAL NAMES AND COMMON NAMES<br>(Hazardous Components 1% or greater; Carcinogens 0.1% or greater)  | CAS Number   | SARA<br>III LIST  | OSHA PEL<br>(ppm) | ACGIH<br>TLV (ppm) | Carcinogen<br>Ref. Source ** |
| ACETONE  | 67-64-1  | No  | 1000              | 750                | d                            |
| HEXANE   | 110-54-3   | Yes   | 50                | 50                 | d                            |
| ISOBUTANE / PROPANE BLEND  | 75-28-5  | No  | 800               | 800                | d                            |
|  | 74-98-6  | No  | 1000              | 1000               | d                            |
| * Per manufacturer's recommendation  |  |   |                   |                    |                              |
| SECTION 2 - PHYSICAL/CHEMICAL CHARACTERISTICS  |  |   |                   |                    |                              |
| Boiling Point: N/A   |  |   |                   |                    |                              |
| Vapor Pressure: PSIG @ 70°F (Aerosols): Max.80   |  |   |                   |                    |                              |
| Vapor Density (Air = 1): N/E   |  |   |                   |                    |                              |
| Solubility in Water: Partial   |  |   |                   |                    |                              |
| Appearance and Odor: Straw colored liquid with ketone solvent odor.  |  |   |                   |                    |                              |
| SECTION 3 - FIRE AND EXPLOSION HAZARD DATA   |  |   |                   |                    |                              |
| FLAMMABILITY as per USA FLAME PROJECTION TEST<br>(aerosols) EXTREMELY FLAMMABLE  | Auto Ignition Temperature  | Flammability Limits in Air by % in Volume:<br>% LEL: N/E % UEL: N/E       |                   |                    |                              |
| FLASH POINT AND METHOD USED (non-aerosols): N/A  | SPECIAL FIRE FIGHTING PROCEDURES: Self-contained breathing apparatus.<br>Use water fog to cool containers to prevent rupturing & exploding containers.<br>Provide shielding for personnel. |   |                   |                    |                              |
| EXTINGUISHER MEDIA: Foam, dry chemical, carbon dioxide, water.   |  |   |                   |                    |                              |
| Unusual Fire & Explosion Hazards: Do not expose aerosols to temperatures above 130°F or the container may rupture.   |  |   |                   |                    |                              |
| SECTION 4 - REACTIVITY HAZARD DATA   |  |   |                   |                    |                              |
| STABILITY [X] STABLE [ ] UNSTABLE  | HAZARDOUS POLYMERIZATION [ ] WILL [X] WILL NOT OCCUR   |   |                   |                    |                              |
| Incompatibility (Mat. to avoid): Strong oxidizing agents.  |  |   |                   |                    |                              |
| Hazardous Decomposition Products: Carbon dioxide, carbon monoxide.   |  |   |                   |                    |                              |
| SECTION 5 - HEALTH HAZARD DATA   |  |   |                   |                    |                              |
| PRIMARY ROUTES OF ENTRY: [X] INHALATION [ ] INGESTION [X] SKIN ABSORPTION [ ] EYE [ ] NOT HAZARDOUS  |  |   |                   |                    |                              |
| ACUTE EFFECTS  |  |   |                   |                    |                              |
| Inhalation: Excessive inhalation of vapors can cause nasal & respiratory irritation, dizziness, weakness, nausea, headache, possible unconsciousness or asphyxiation.              |  |   |                   |                    |                              |
| Eye Contact: Irritation  |  |   |                   |                    |                              |
| Skin Contact: Irritation due to defatting of skin.   |  |   |                   |                    |                              |
| Ingestion: Possible chemical pneumonitis if aspirated into lungs.  |  |   |                   |                    |                              |
| CHRONIC EFFECTS: (Effects due to excessive exposure to the raw materials of this mixture) Excessive inhalation of hexane may cause nerve damage.                                   |  |   |                   |                    |                              |
| Medical Conditions Generally Aggravated by Exposure: May aggravate existing eye, skin, or upper respiratory conditions.  |  |   |                   |                    |                              |
| EMERGENCY FIRST AID PROCEDURES   |  |   |                   |                    |                              |
| Eye Contact: Flush with water for 15 minutes. If irritated, seek medical attention.  |  |   |                   |                    |                              |
| Skin Contact: Wash with soap and water. If irritated, seek medical attention.  |  |   |                   |                    |                              |
| Inhalation: Remove to fresh air. Resuscitate if necessary. Get medical attention.  |  |   |                   |                    |                              |
| Ingestion: DO NOT INDUCE VOMITING. Drink two large glasses of water. Get immediate medical attention.  |  |   |                   |                    |                              |
| SECTION 6 - CONTROL AND PROTECTIVE MEASURES  |  |   |                   |                    |                              |
| Respiratory Protection (Specify type): If vapor concentration exceeds TLV, use respirator approved by NIOSH in positive pressure mode.   |  |   |                   |                    |                              |
| Protective Gloves: Neoprene  |  |   |                   |                    |                              |
| Ventilation Requirements: Adequate ventilation to keep vapor concentration below TLV.  |  |   |                   |                    |                              |
| Other Protective Clothing & Equipment: None  |  |   |                   |                    |                              |
| Hygienic Work Practices: Wash with soap and water before handling food. Remove contaminated clothing.  |  |   |                   |                    |                              |
| SECTION 7 - PRECAUTIONS FOR SAFE HANDLING AND USE  |  |   |                   |                    |                              |
| Steps To Be Taken If Material is Spilled Or Released: Absorb with suitable medium. Incinerate or landfill according to local, state or federal regulations. DO NOT FLUSH TO SEWER. |  |   |                   |                    |                              |
| Waste Disposal Methods: Aerosol cans when vented to atmospheric pressure through normal use, pose no disposal hazard.  |  |   |                   |                    |                              |
| Precautions To Be Taken in Handling & Storage: Do not puncture or incinerate containers. Do not store at temperatures above 130°F.   |  |   |                   |                    |                              |
| Other Precautions &/or Special Hazards: KEEP OUT OF REACH OF CHILDREN. Avoid food contamination. Avoid breathing vapors. Remove ignition sources.                                  |  |   |                   |                    |                              |

We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind.  
\*\* Chemical Listed as Carcinogen or Potential Carcinogen. [a] NTP [b] IARC Monograph [c] OSHA [d] Not Listed [e] Animal Data Only

**TREMSTOP IA RUST RED - 5 GAL**

Version 3.

Print Date 12/22/2011

REVISION DATE: 12/20/2011

**Canadian Regulations:**

WHMIS Classification : D2A, D2B

This is a "controlled product" under the Canadian Workplace Hazardous Materials Information System (WHMIS).

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

**Other Regulations:**

Regulatory VOC (less water and exempt solvent) : 16 g/l

**SECTION 16 - OTHER INFORMATION****HMIS Rating :**

|              |   |
|--------------|---|
| Health       | 1 |
| Flammability | 0 |
| Reactivity   | 0 |
| PPE          |   |

0 = Minimum  
1 = Slight  
2 = Moderate  
3 = Serious  
4 = Severe

**Further information:**

For Industrial Use Only. Keep out of Reach of Children. The hazard information herein is offered solely for the consideration of the user, subject to their own investigation of compliance with applicable regulations, including the safe use of the product under every foreseeable condition.

**Prepared by: Sewnauth Raghunandan****Legend**

ACGIH - American Conference of Governmental Hygienists

DOT - Department of Transportation

DSL - Domestic Substance List

EPA - Environmental Protection Agency

HMIS - Hazardous Materials Information System

IARC - International Agency for Research on Cancer

MSHA - Mine Safety Health Administration

NDSL - Non-Domestic Substance List

NIOSH - National Institute for Occupational Safety and Health

NTP - National Toxicology Program

OSHA - Occupational Safety and Health Administration

PEL - Permissible Exposure Limit

RCRA - Resource Conservation and Recovery Act

STEL - Short Term Exposure Limit

TLV - Threshold Limit Value

TSCA - Toxic Substances Control Act

TWA - Time Weighted Average

V - Volume

VOC - Volatile Organic Compound

WHMIS - Workplace Hazardous Materials Information System

**TREMSTOP IA RUST RED - 5 GAL**

Version 3.  
REVISION DATE: 12/20/2011

Print Date 12/22/2011

**SECTION 10 - REACTIVITY / STABILITY**

Substances to avoid : Oxidizing agents.Strong acids.Strong bases.

**SECTION 11 - TOXICOLOGICAL INFORMATION**

Amorphous silica, CAS-No.: 7631-86-9

Acute oral toxicity (LD-50 oral)

22,500 mg/kg ( Rat ) 15,000 mg/kg ( Mouse )

Propylene glycol, CAS-No.: 57-55-6

Acute oral toxicity (LD-50 oral)

30,000 mg/kg ( Rat ) 18,000 mg/kg ( Rabbit ) 19,000 mg/kg  
( Dog ) 23,900 - 31,800 mg/kg ( Mouse ) 18,400 - 196,000  
mg/kg ( Guinea pig )

Melamine, CAS-No.: 108-78-1

Acute oral toxicity (LD-50 oral)

4,550 mg/kg ( Mouse ) 3,160 mg/kg ( Rat ) 3,850 mg/kg ( Rat )

Acute dermal toxicity (LD-50 dermal)

1,000 mg/kg ( Rabbit )

**SECTION 12 - ECOLOGICAL INFORMATION**

No Data Available

**SECTION 13 - WASTE DISPOSAL CONSIDERATIONS**

Disposal Method : Dispose as hazardous waste according to all local, state, federal and provincial regulations.

**SECTION 14 - TRANSPORTATION / SHIPPING DATA**

**TDG / DOT Shipping Description:**

NOT REGULATED

**SECTION 15 - REGULATORY INFORMATION**

**North American Inventories:**

All components are listed or exempt from the TSCA inventory.

This product or its components are listed on, or exempt from the Canadian Domestic Substances List.

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**SECTION 8 - PREVENTIVE MEASURES/EXPOSURE CONTROLS/PERSONAL PROTECTION**
**Personal protection equipment**

Respiratory protection : Not required under normal conditions of use.  
Hand protection : Protect hands with impervious gloves.  
Eye protection : Use safety glasses if eye contact is likely.  
Protective measures : Use professional judgment in the selection, care, and use. Other equipment not normally required.

**Engineering measures** : General ventilation is sufficient. Use local exhaust when the general ventilation is inadequate.

**Exposure Limits**

| <b>Chemical Name</b>                        | <b>CAS Number</b> | <b>Regulation</b>  | <b>Limit</b>   | <b>Form</b>  |
|---|-------------------|--|--|--|
| Fibrous Glass                               | 65997-17-3        | Ontario TWAEV:<br>ACGIH TWA:<br>Ontario TWAEV:<br>Ontario TWAEV:               | 5 mg/m3<br>5 mg/m3<br>1 ppm<br>0.5 ppm                 | Inhalable<br>Inhalable fraction.<br>Respirable fibers<br>Respirable fibers                       |
| Amorphous silica                            | 7631-86-9         | Ontario TWAEV:<br>Ontario TWAEV:<br>ACGIH TWA:<br>ACGIH TWA:<br>Ontario TWAEV: | 3 mg/m3<br>10 mg/m3<br>3 mg/m3<br>10 mg/m3<br>10 mg/m3 | Respirable particles.<br>Inhalable particulate.<br>Respirable particles.<br>Inhalable particles. |
| Crystalline Silica (Quartz)/<br>Silica Sand | 14808-60-7        | Ontario TWAEV:<br>ACGIH TWA:   | 0.10 mg/m3<br>0.025 mg/m3                              | Respirable fraction.<br>Respirable fraction.   |

**SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

Physical State : Paste  
Form : Non-sag gunnable paste  
Color : Red  
Odor : Acrylate  
pH : 7.0 - 10.0  
Vapour pressure : Not available.  
Vapor density : Heavier than air  
Melting point/range : 32 °F, 0 °C  
Freezing point : Not available.  
Boiling point/range : 212 °F, 100 °C  
Water solubility : Miscible  
Evaporation Rate: : Not available.  
Specific Gravity : 1.45  
% Volatile Weight : 30 %

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| Chemical Name                            | CAS-No.    | Weight % Range |
|--|------------|----------------|
| Fibrous Glass                            | 65997-17-3 | 1.0 - 5.0      |
| Amorphous silica                         | 7631-86-9  | 1.0 - 5.0      |
| Propylene glycol                         | 57-55-6    | 1.0 - 5.0      |
| Melamine                                 | 108-78-1   | 0.5 - 1.5      |
| Crystalline Silica (Quartz)/ Silica Sand | 14808-60-7 | 0.1 - 1.0      |

The ingredients listed above are hazardous as defined in the controlled products regulation. (CPR).

**SECTION 4 - FIRST AID MEASURES**

Get immediate medical attention for any significant overexposure.

- Inhalation : Leave area to breathe fresh air. Avoid further overexposure. If symptoms persist, get medical attention.
- Eye contact : Flush with water for 15 minutes. If irritation persists, get medical attention.
- Skin contact : Wash with water. If irritation, rash or other disorders develop, get medical attention immediately.
- Ingestion : Do not induce vomiting unless advised by a physician. Call nearest Poison Control Center or Physician immediately.

**SECTION 5: FIRE / EXPLOSION HAZARDS**

- Flash point : Not available.
- Method : Not available.
- Burning rate : Non-flammable solid
- Lower explosion limit : Not available.
- Upper explosion limit : Not available.
- Autoignition temperature : Not available.
- Extinguishing media : This product is not expected to burn under normal conditions of use. Use that which is appropriate to the surroundings.
- Hazardous combustion products : Smoke, fumes.
- Protective equipment for firefighters : Not applicable. Product is not expected to burn.
- Fire and explosion conditions : This product not expected to ignite under normal conditions of use.

**SECTION 6 - SPILLS / LEAKS / ACCIDENTAL RELEASE MEASURES**

Use appropriate protective equipment. Avoid contact with material. Scrape up and transfer to appropriate container for disposal. Keep out of water courses.

**SECTION 7 - HANDLING AND STORAGE**

Prevent inhalation of vapor, ingestion, and contact with skin eyes and clothing. Keep container closed when not in use. Precautions also apply to emptied containers. Do not use in confined or poorly ventilated areas. Store in sealed containers in a dry, ventilated warehouse location above freezing.



**TREMSTOP IA RUST RED - 5 GAL**Version 3.  
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**SECTION 1 - PRODUCT IDENTIFICATION / PREPARATION INFORMATION****Product Information**Trade name : TREMSTOP IA RUST RED - 5 GAL  
Product code : 937860 805Supplier : Tremco Canada division  
220 Wicksteed Avenue  
Toronto, ON M4H 1G7Telephone : (416) 421-3300  
Emergency Phone: : (613) 996-6666

Product use : Sealant

**Preparation Information**Prepared by: : Sewnauth Raghunandan  
Date: : 12/20/2011  
Telephone : (416) 421-3300**SECTION 2 - HAZARDS IDENTIFICATION****Emergency Overview**

Red. Non-sag gunnable paste. May cause slight irritation to the respiratory system. Leave area to breathe fresh air. Avoid further overexposure. If symptoms persist, get medical attention.

**Acute Potential Health Effects/ Routes of Entry**Inhalation : May cause slight irritation to the respiratory system.  
Eyes : Slightly irritating.  
Ingestion : May cause irritation to the mouth, throat and stomach.  
Skin : Irritant effect may be delayed.**Aggravated Medical Conditions**

Pre-existing eye, skin and respiratory disorders may be aggravated by exposure.

**Chronic Health Effects**

The International Agency for Research on Cancer (IARC) has classified ceramic fiber, fibrous glasswool, and mineral wool (rockwool and slagwool) as possible human carcinogens (Group 2B) based on sufficient evidence of carcinogenicity in animals but insufficient data in humans. In the National Toxicology Program's (NTP) 7th Annual Report on Carcinogens (1994), respirable glasswool was classified as reasonably anticipated to be carcinogenic. Inhalation of crystalline silica (quartz) can cause cancer based on animal data, and IARC concludes sufficient evidence in humans (Group 1). Prolonged and repeated overexposure to free crystalline silica dust above the TLV level may cause scarring of the lungs with cough and shortness of breath. A delayed lung injury, silicosis may result from breathing free silica. OSHA considers fibrous glass dust a nuisance dust. Fibrous glass can cause dermatitis, local irritation. Long term overexposure to propylene glycol caused liver abnormalities, kidney damage in laboratory animals. Repeated excessive ingestion may cause central nervous system effects. Fillers are encapsulated and not expected to be released from product under normal conditions of use.

**SECTION 3 : HAZARDOUS INGREDIENTS**



## ECOLOGICAL INFORMATION

No data.

## DISPOSAL CONSIDERATIONS

Waste Disposal:

Treatment, storage, transportation, and disposal must be in accordance with applicable Federal, State/Provincial, and Local regulations.

## TRANSPORTATION INFORMATION

DOT – not regulated.

## REGULATORY INFORMATION

U.S. Federal Regulations

TSCA Inventory Status: Reported/Included.

Section 313 Supplier Notifications.

This product contains no toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40 CFR 372:

## OTHER INFORMATION

NPCA-HMIS Rating

Health : 1

Flammability : 0

Reactivity : 0

Personal Protection rating to be supplied by user depending on use conditions.

## STATE RIGHT-TO-KNOW LAWS

No substances on the state hazardous substances list, for the states indicated below, are used in the manufacture of products on this Material Safety Data Sheet, with the exceptions indicated. While we do not specifically analyze these products, or the raw materials used in their manufacture, for substances on various state hazardous substances lists, to the best of our knowledge the products on this Material Safety Data Sheet contain no such substances except for those specifically listed below:

SUBSTANCES ON THE NEW JERSEY WORKPLACE HAZARDOUS SUBSTANCE LIST PRESENT AT A CONCENTRATION OF 1% OR MORE (0.1% FOR SUBSTANCES IDENTIFIED AS CARCINOGENS, MUTAGENS OR TERATOGENS): Graphite, Alumina,

WARNING: SUBSTANCES KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER:

None known.

WARNING: SUBSTANCES KNOWN TO THE STATE OF CALIFORNIA TO CAUSE BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM: None known.

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This information relates to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is to the best of our knowledge and belief accurate and reliable as of the data compiled. However, no representation, warranty, or guarantee is made as to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability and completeness of such information for his own particular use. We do not accept liability for any loss or damage that may occur from the use of this information.

### Responsibility for MSDS :

Specified Technologies Inc.  
210 Evans Way  
Somerville, NJ 08876 USA

## FIRST AID MEASURES

### First Aid

**INHALATION:** Remove to fresh air.

**SKIN CONTACT:** Wash thoroughly.

**EYE CONTACT:** Irrigate eyes with running water for at least 15 minutes. Get medical attention if irritation develops.

**INGESTION:** None applicable.

## FIRE FIGHTING MEASURES

Not a fire hazard.

EXTINGUISHING MEDIA.....Dry Chemical; Carbon Dioxide; Foam; Water spray for large fires.

SPECIAL FIRE FIGHTING PROCEDURES:.....As for surrounding fire.

## ACCIDENTAL RELEASE MEASURES

Safeguards (Personnel)

NOTE: Review FIRE FIGHTING MEASURES and HANDLING (PERSONNEL) sections before proceeding with clean-up. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean-up

## HANDLING AND STORAGE

Store under ambient conditions. No special handling required.

## EXPOSURE CONTROLS/PERSONAL PROTECTION

**EYE PROTECTION REQUIREMENTS:**..... Safety glasses/goggles.

**SKIN PROTECTION REQUIREMENTS:** ..... Gloves.

**RESPIRATOR REQUIREMENTS:** ..... None.

**VENTILATION REQUIREMENTS:**..... If needed, use local exhaust ventilation to keep airborne concentrations below the TLV.

### Exposure Guidelines

#### Exposure Limits

**PEL(OSHA)** : Particulates (Not Otherwise Classified) 15 mg/m3, 8 Hr. TWA, total dust 5 mg/m3, 8 Hr. TWA, respirable dust

**TLV(ACGIH):** None Established

## PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL FORM ..... Paste with minimal odor

SPECIFIC GRAVITY ..... 1.38

PERCENT VOLATILES ..... 22

EVAPORATION RATE..... >1

BOILING POINT ..... 100 deg. C

SOLUBILITY IN WATER..... Infinitely dilutable

CARB VOC (Calculated)..... 0.42 Wt. %

SCAQMD VOC (US EPA Method 24).....32.7 Grams/Liter

## STABILITY AND REACTIVITY

STABILITY: ..... This is a stable material.

CONDITIONS TO AVOID ..... Storage >55 deg. C

HAZARDOUS POLYMERIZATION:..... Will not occur.

INCOMPATIBILITIES:.....None special.

## TOXICOLOGICAL INFORMATION

Mixture not tested but based on components:

May be irritating to skin and eyes and may aggravate existing skin and eye conditions.

None of the components are listed as carcinogens.



# Material Safety Data Sheet

1-FEB-2012

## SpecSeal® SERIES LCI SEALANT

### CHEMICAL PRODUCT/COMPANY IDENTIFICATION

#### Material Identification

PRODUCT NAME.....SpecSeal® LCI Sealant

CHEMICAL FAMILY.....Mixture

#### Company Identification

#### MANUFACTURER/DISTRIBUTOR

Specified Technologies Inc.  
210 Evans Way  
Somerville, NJ 08876 USA

#### PHONE NUMBERS

Product Information : 1-908-526-8000  
Emergency : 1-800-255-3924

### HAZARDS IDENTIFICATION

\*\*\*\*\*EMERGENCY OVERVIEW\*\*\*\*\*

\* Possible skin and eye irritant. Paste. \*

\*\*\*\*\*

#### Potential Health Effects:

**EYE:** Contact may cause irritation.

**SKIN:** Contact may cause irritation.

**INGESTION:** Relatively non-toxic.

**INHALATION:** Irritation of the nose, throat, and lungs may result from over-exposure to vapors or mist.

**CHRONIC (CANCER) INFORMATION:** Not classified as carcinogenic.

**LONG TERM TOXIC EFFECTS:** None known.

### COMPOSITION/INFORMATION ON INGREDIENTS

Proprietary mixture containing in part:

| INGREDIENT NAME    | CAS NUMBER | PERCENTAGE |
|--------------------|------------|------------|
| ACRYLIC POLYMER    | 82539-93-3 | 35 to 50%  |
| ALUMINA TRIHYDRATE | 21645-51-2 | 15 to 35%  |
| GRAPHITE           | 7782-47-8  | 2 to 8%    |
| CALCIUM CARBONATE  | 1317-65-3  | 15 to 35%  |