

# CASCO

C.A. SCHROEDER, INC.

## MATERIAL SAFETY DATA SHEET

### MATERIAL IDENTIFICATION

Trade Names: L-XX, CF-XX, HP-XX, SF-XX (XX=Length)  
 Generic Names: Flexduct, flexible duct, insulated flexible duct.  
 Chemical Name: N/A CAS Number: N/A DOT Hazard Class: N/A  
 Manufacturers Name: C. A. Schroeder, Inc./CASCO  
 Address: 1318 First St., San Fernando, CA. 91340  
 Phone: (818) 365-9561

### HAZARDOUS COMPONENTS

|                |   |                                |
|----------------|---|--------------------------------|
| Material :     | Fibrous Glass                               | Cured Phenolformaldehyde Resin |
| CAS Number:    | 65997-17-3                                  | 25104-55-6                     |
| Concentration: | 55%   | 4%                             |
| OSHA PEL:      | 5mg/m <sup>3</sup> Nuisance respirable dust | None                           |
| ACGIH TLV:     | 10mg/m <sup>3</sup> dust                    | None                           |

### PHYSICAL DATA

Appearance: Clear or white hose-like inner liner wrapped with an insulation blanket and grey, black or silver vapor barrier.  
 Odor: Negligible  
 Specific Gravity: N/A  
 Melting Point: Varies  
 Vapor Pressure: N/A

### FIRE & EXPLOSION HAZARD DATA

Flash Point: N/A  
 Flamability Limits: N/A  
 Extinguishing Media: Any method which is applicable to the surrounding fire.  
 Unusual Fire or Explosive Hazards: There are no unusual hazards.  
 Special Fire Fighting Instructions: In a sustained fire self contained breathing apparatus should be worn.  
 Products of Combustion: Mainly CO, CO<sup>2</sup> and water with the possibility of some ammonia, alcohols, aldehydes, acrolins and NO<sup>2</sup> being formed.



### REACTIVITY DATA

Stability: Product is stable.

Conditions to avoid: None in intended use.

Hazardous Decomposition Products: In a fire - CO, CO<sup>2</sup>, ammonia, alcohol, acrolins, aldehydes and NO<sup>2</sup>.

Hazardous Polymerization: Will not occur.

### HEALTH HAZARD DATA

Exposure: Once properly installed the fiberglass in the product is encapsulated and exposure to fiberglass particles is negligible. The greatest exposure to fiberglass occurs during handling of the product when installing.

Primary Routes of Entry: Inhalation, skin and eye contact.

Acute: Exposure to fiberglass may cause temporary skin, eye and upper respiratory irritation.

Medical Conditions which may be aggravated: Pre-existing conditions which may be aggravated by mechanical irritants.

Chronic: The International Agency for Research on Cancer (IARC), an agency of the World Health Organization (WHO), at a meeting in June, 1987 reviewed all of the significant research on the health effects attributed to fiberglass.

IARC determined that evidence was enadequate to link fiberglass with cancer in humans based on extensive research including the results of recent North American European human studies covering over 27,000 fiberglass plant workers (including 15,000 U.S. fiberglass factory workers) which showed no statistically significant increase in lung cancer death rates among these workers as compared to the general population of their local communities. These studies focused on deaths from all causes occurring after 1945 among these factory workers.

A small study of Canadian glass wool plant workers reported a statistically significant increase in lung cancer death.

IARC also reviewed animal studies involving exposure to fiberglass. In comprehensive studies, where laboratory animals were forced to inhale fibers (in far greater concentrations than human exposure), there was no evidence of cancer or other respiratory disease. However, in other animal experiments in which glass

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wool fibers were artificially injected or surgically implanted in the animal's lungs, tumors were produced. Such procedures by-passed normal body defense mechanisms.

Based largely on the animal implantations experiments and following its mandatory classification protocol, IARC classified glass wool as category 2B, "possibly carcinogenic to humans". IARC regards it as prudent to treat a material for which there is sufficient evidence of carcinogenicity in animals as if it is a possible carcinogen to humans.

**Carcinogenicity:**

Ingredient: Fibrous Glass  
 MTP: Not Listed  
 IARC: Classified as 2B  
 OSHA: Not Regulated as a Carcinogen

**EMERGENCY AND FIRST AID PROCEDURES**

Inhalation: Remove from exposure, get medical help if irritation persists.  
 Skin Contact: Clean with mild soap and water. Get medical help if irritation persists.  
 Eye contact: Flush with clean water for at least 15 minutes. Get medical help if irritation persists.

**SPECIAL PROTECTION INFORMATION**

Respiratory: Wear respirator approved by NIOSH and MSHA for dust where sensitivity to dust and airborne particles may cause irritation to the nose or throat.  
 Eye: Wear eye protection (safety glasses, goggles etc.) when installing product.  
 Skin: Exposure to the fiberglass in the product may cause temporary skin irritation. Wear long sleeves, rubber gloves and a cap as necessary.  
 Waste Disposal Information: Scrap material should be disposed of in a sanitary landfill in accordance with local, state and federal regulations.

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ADDITIONAL INFORMATION

Acronyms Used: CAS No.: Chemical Abstracts Service Number  
mg/m<sup>3</sup>: Milligrams per cubic meter  
N/A: Not applicable  
NTP: National Toxicology Program  
IARC: International Agency for Research on Cancer  
MSHA: Mine Safety and Health Administration  
NIOSH: National Institute for Occupational Safety and Health  
OSHA: Occupational Safety and Health Administration

California Prop. 65: The only materials in Casco Flex listed in the California Safe Drinking Water Act of 1986 (Prop. 65) are trace amounts of cadmium and lead in the zinc coating of the wire helix. There is approximately 0.0006% cadmium and 0.001% lead based on the total product weight.

As of the date of preparation of this document, the foregoing information is believed to be accurate and is provided in good faith to comply with applicable federal and state law(s). However, no warranty or representation with respect to such information is intended or given.