## **GHS SAFETY DATA SHEET**

## Spears<sup>®</sup> FS-5 One-Step Low VOC Cement for CPVC Fire Sprinkler Systems

SECTION I - PRODUCT AND COMPANY IDENTIFICATION PRODUCT NAME: Spears® FS-5 One-Step Low VOC Cement for CPVC Fire Sprinkler Systems PRODUCT USE: Solvent Cement for CPVC Plastic Pipe Spears® Manufacturing Company MANUFACTURER: SUPPLIER: 15853 Olden Street Sylmar, CA 91342 Tel. 818-364-1611 EMERGENCY: Transportation/Medical issues: Tel. 800-535-5053 or 352-323-3500 (outside of USA) INFOTRAC **SECTION 2 - HAZARDS IDENTIFICATION** GHS CLASSIFICATION: Health Environmental Physical Acute Toxicity: Category 4 Acute Toxicity: None Known Flammable Liquid Category 2 Skin Irritation Category 3 Chronic Toxicity None Known Skin Sensitization: NO Eve: Category 2B GHS LABEL: Signal Word: CLASS B, DIVISION 2 WHMIS CLASSIFICATION: OR Danger Hazard Statements Precautionary Statements H225: Highly flammable liquid and vapor P210: Keep away from heat/sparks/open flames/hot surfaces - No smoking H319: Causes serious eye irritation P261: Avoid breathing dust/fume/gas/mist/vapors/spray H332: Harmful if inhaled P280: Wear protective gloves/protective clothing/eye protection/face protection H335: May cause respiratory irritation P337+P313: Get medical advice/attention H336: May cause drowsiness or dizziness P403+P233: Store in a well ventilated place. Keep container tightly closed P501: Dispose of contents/container in accordance with local regulation EUH019: May form explosive peroxides SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS REACH CONCENTRATION FINECS # C 45# Pre-registration Number % by Weight Tetrahydrofuran (THF) 109-99-9 203-726-8 05-2116297729-22-0000 30 - 60201-159-0 05-2116297728-24-0000 Methyl Ethyl Ketone (MEK) 78-93-3 2 - 25Cvclohexanone 108-94-1 203-631-1 05-2116297718-25-0000 5 - 15 Acetone 67-64-1 200-662-2 05-2116297713-35-0000 1 - 5 All of the constituents of this adhesive product are listed on the TSCA inventory of chemical substances maintained by the US EPA, or are exempt from that listing. \* Indicates this chemical is subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 (40CFR372). SECTION 4 - FIRST AID MEASURES Contact with eyes: Flush eyes immediately with plenty of water for 15 minutes and seek medical advice immediately. Skin contact: Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water. If irritation develops, seek medical advice. Remove to fresh air. If breathing is stopped, give artificial respiration. If breathing is difficult, give oxygen. Seek medical advice. Inhalation: Ingestion: Rinse mouth with water. Give 1 or 2 glasses of water or milk to dilute. Do not induce vomiting. Seek medical advice immediately SECTION 5 - FIREFIGHTING MEASURES Suitable Extinguishing Media: Dry chemical powder, carbon dioxide gas, foam, Halon, water fog. HMIS NFPA 0-Minimal Unsuitable Extinguishing Media: Water spray or stream. Health 2 2 1-Slight Inhalation and dermal contact Exposure Hazards: Flammability 3 3 2-Moderate Oxides of carbon, hydrogen chloride and smoke Combustion Products: Reactivity 0 0 3-Serious Protection for Firefighters: Self-contained breathing apparatus or full-face positive pressure airline masks. 4-Severe SECTION 6 - ACCIDENTAL RELEASE MEASURES ersonal precautions Keep away from heat, sparks and open flame. Provide sufficient ventilation, use explosion-proof exhaust ventilation equipment or wear suitable respiratory protective equipment. Prevent contact with skin or eyes (see section 8). Environmental Precautions: Prevent product or liquids contaminated with product from entering sewers, drains, soil or open water course. Methods for Cleaning up: Clean up with sand or other inert absorbent material. Transfer to a closable steel vessel. Materials not to be used for clean up: Aluminum or plastic containers SECTION 7 - HANDLING AND STORAGE Handling: Avoid breathing of vapor, avoid contact with eyes, skin and clothing. Keep away from ignition sources, use only electrically grounded handling equipment and ensure adequate ventilation/fume exhaust hoods. Do not eat, drink or smoke while handling. Store in ventilated room or shade below 33 °C (90 °F) and away from direct sunlight. Storage: Keep away from ignition sources and incompatible materials: caustics, ammonia, inorganic acids, chlorinated compounds, strong oxidizers and isocyanates. Follow all precautionary information on container label, product bulletins and solvent cementing literature. SECTION 8 - PRECAUTIONS TO CONTROL EXPOSURE / PERSONAL PROTECTION EXPOSURE LIMITS: ACGIH TLV ACGIH STEL OSHA PEL OSHA STEL Component Tetrahvdrofuran (THF 100 ppm 200 ppm 50 ppm 200 ppm 200 ppm Methyl Ethyl Ketone (MEK) 300 ppm Acetone 500 ppm 750 ppm 1000 ppm Cyclohexanone 20 ppm 50 ppm 50 ppm **Engineering Controls:** Use local exhaust as needed Maintain breathing zone airborne concentrations below exposure limits. Monitoring: Personal Protective Equipment (PPE): Eye Protection: Avoid contact with eyes, wear splash-proof chemical goggles, face shield, safety glasses (spectacles) with brow guards and side shields, etc. as may be appropriate for the exposure Skin Protection: Prevent contact with the skin as much as possible. Butyl rubber gloves should be used for frequent immersion. Use of solvent-resistant gloves or solvent-resistant barrier cream should provide adequate protection when normal adhesive application practices and procedures are used for making structural bonds. **Respiratory Protection:** Prevent inhalation of the solvents. Use in a well-ventilated room. Open doors and/or windows to ensure airflow and air changes. Use local exhaust ventilation to remove airborne contaminants from employee breathing zone and to keep contaminants below levels listed above.

With normal use, the Exposure Limit Value will not usually be reached. When limits approached, use respiratory protection equipment.

Appearance:	Red, h	eavy syrupy liquid				
Odor:	Ether-	Like			Odor Threshold:	0.88 ppm (Cyclohexanone)
pH:	Not Ap	plicable				
Melting/Freezing Poi		°C (-163.3 °F) Base			Boiling Range:	66 °C (151 °F) to 156 °C (313 °F)
Boiling Point:		66 °C (151 °F) Based on first boiling component: THF			Evaporation Rate:	> 1.0 (BUAC = 1)
Flash Point: Specific Gravity:		-20 °C (-4 °F) TCC based on THF 0.986 ± 0.01 @ 23 °C ± 2 ° (73 °F ± 3.6 °)			Flammability:	Category 2
					Flammability Limits:	LEL: 1.1% based on Cyclohexanone UEL: 11.8% based on THF
Solubility: Partition Coefficient		nt portion soluble in w Not Available		nion separates out.	Vapor Pressure:	129 mm Hg @ 20 °C (68 °F) based on
Auto-ignition Tempe		(610 °F) based on			Vapor Density:	<2 (Air = 1)
Decomposition Tem		Not Applicable			Other Data: Viscosity:	Heavy bodied
VOC Content:		When applied as directed, per SCAQMD Rule 1168, Test Method 3				
SECTION 10 - STA	BILITY AND RE	ACTIVITY	•		, _ 0	
Stability:		Stable				
Hazardous decompo	sition products:	None in norm	nal use. When	forced to burn, this produ	uct gives off oxides of carbon,	hydrogen chloride and smoke.
Conditions to avoid:		Keep away fi	rom heat, spark	s, open flame and other	ignition sources.	
Incompatible Materia	als:	Oxidizers, str	rong acids and I	bases, amines, ammonia	1	
SECTION 11 - TOX	(ICOLOGICAL IN	FORMATION				
ikely Routes of Exposur		ion, Eye and Skin C	ontact			
Acute symptoms and effe						
Inhalation:					owsiness, irritation of eyes and	
Eye Contact:						nmation on contact with the liquid.
Skin Contact:			-		may occur with prolonged cont	tact.
Ingestion:	May cause nausea,	-	nd mental sluggi	ishness.		
Chronic (long-term) effec		known to humans		1.0		
Toxicity:	LC			LC50		
Tetrahydrofuran (THF)		842 mg/kg (rat)			n 3 hrs. 21,000 mg/m <sup>3</sup> (rat)	
Methyl Ethyl Ketone (MEk	,	737 mg/kg (rat), Der	mal: 6480 mg/k		n 8 hrs. 23,500 mg/m <sup>3</sup> (rat)	
Acetone		800 mg/kg (rat)		Inhalatio	n 50,100 mg/m <sup>3</sup> (rat)	
				- Assel 1.20		
Cyclohexanone		535 mg/kg (rat), Der	rmal: 948 mg/kg	(rabbit) Inhalation	n 4 hrs. 8,000 PPM (rat)	
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