

GHS SAFETY DATA SHEET

Date Revised: APRIL 2020

Spears® FS-5 One-Step Low VOC Cement for CPVC Fire Sprinkler Systems Supersedes: SEPT 2015

SECTIONI-PRODUCTAND COMPANYIDENTIFICATION

PRODUCT NAME: PRODUCT USE:

AME: Spears® FS-5 One-Step Low VOC Cement CPVC Fire Sprinkler Systems SE: Solvent Cement for CPVC Plastic Pipe

MANUFACTURER: Spears® Manufacturing Company 15853 Olden Street, Sylmar, CA 91342 Tel. 818-364-1611

SUPPLIER:

EMERGENCY: Transportation/Medical Issues: Tel. 800-535-5053 or 352-323-3500 (outside of USA) INFOTRAC

SECTION 2 - HAZARDS IDENTIFICATION GHSCLASSIFICATION: Health Environmental Physical Category 4 Flammable Liquid Category 2 Acute Toxicity: Acute Toxicity: None Known Skin Irritation Category 3 Chronic Toxicity: None Known Skin Sensitization: NO Eve: Category 2B GHSLABEL: Signal Word: WHMIS CLASSIFICATION: CLASS B DIVISION 2 Ċ Danger Precautionary Statements Hazard 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 H351: Suspected of causing cancer P501: Dispose of contents/container in accordance with local regulation EUH019: May form explosive peroxides SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS CONCENTRATION CAS# EINECS# REACH Pre-registration Number % by Weight 109-99-9 203-726-8 Tetrahvdrofuran (THF) 05-2116297729-22-0000 30 - 60 Methyl Ethyl Ketone (MEK) 78-93-3 201-159-0 05-2116297728-24-0000 2 - 25 Cvclohexanone 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). # indicates that this chemical is found on Proposition 65's List of chemicals known to the State of California to cause cancer or reproductive toxicity. SECTION 4 - FIRST AID MEASURES Contact with eves: 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. Inhalation: Remove to fresh air. If breathing is stopped, give artificial respiration. If breathing is difficult, give oxygen. Seek medical advice. Rinse mouth with water. Give 1 or 2 glasses of water or milk to dilute. Do not induce vomiting. Seek medical advice immediately. Indestion: Likely Routes of Exposure: Inhalation, Eye and Skin Contact Acute symptoms and effects: Severe overexposure may result in nausea, dizziness, headache. Can cause drowsiness, irritation of eyes and nasal passages. Inhalation: Eve Contact: Vapors slightly uncomfortable. Overexposure may result in severe eye injury with corneal or conjunctival inflammation on contact with the liquid. Skin Contact: Liquid contact may remove natural skin oils resulting in skin irritation. Dermatitis may occur with prolonged contact. Ingestion: May cause nausea, vomiting, diarrhea and mental sluggishness. Chronic (long-term) effects: Category 2 Carcinogen SECTION 5 - FIREFIGHTING MEASURES Suitable Extinguishing Media: HMIS 0-Minimal Dry chemical powder, carbon dioxide gas, foam, Halon, water fog NFPA 2 Unsuitable Extinguishing Media: Health 2 1-Slight Water spray or stream. 2-Moderate Exposure Hazards: Inhalation and dermal contact. Flammability 3 3 0 3-Serious **Combustion Products:** Oxides of carbon, hydrogen chloride and smoke Reactivity 0 PPE в 4-Severe Protection for Firefighters: Self-contained breathing apparatus or full-face positive pressure airline masks. SECTION 6 - ACCIDENTAL RELEASE MEASURES Personal 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 eves (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 Avoid breathing of vapor, avoid contact with eyes, skin and clothing. Handling: 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. Storage: Store in ventilated room or shade below 33 °C (90 °F) and away from direct sunlight. 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.

EXPOSURELIMITS:						OSHA	CAL/OSH	CAL/OSHA		1
	Component Tetrahydrofuran (THF)	ACGIHTLV 50 ppm	ACGIHSTEL 100 ppm	200 ppm	OSHASTEL: N/E		PEL 200 ppm	Ceiling N/E	CAL/OSHA STEL 250 ppm	-
	Methyl Ethyl Ketone (MEK) Cyclohexanone Acetone	200 ppm 20 ppm 500 ppm	300 ppm 50 ppm 750 ppm	200 ppm 50 ppm 1000 ppm	N/E N/E N/E	N/E N/E N/E	200 ppm 25 ppm 500 ppm	N/E N/E 3000 ppm	300 ppm N/E 750 ppm	
Engineering Controls: Monitoring:	Use local exhaust as needed				I	1				1
Personal Protective Equ	,									
Eye Protection:	Avoid contact with eyes, wea	· ·	hemical goggles	, face shield, sa	ety glasses (sp	ectacles) with	brow guards	and side shields,	etc.	
Skin Protection:	as may be appropriate for the Prevent contact with the skin	•	sible. Butyl rubb	per gloves shoul	d be used for fr	equent immers	ion.			
	Use of solvent-resistant gloves or solvent-resistant barrier cream should provide adequate protection when normal adhesive application									
Respiratory Protection:	practices and procedures are used for making structural bonds. 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 Exposu			reached. When	limits approact	n, use respirato	ry protection	equipment.		
	ICAL AND CHEMIC		ERTIES							
Appearance: Odor:	Red, heavy sy Ether-Like	rupy liquid			Odo	or Threshold:	(0.88 ppm (Cyclo	ohexanone)	
pH: Melting/Freezing Point	Not Applicable		on first melting	component: T	HE Boi	ling Range:		66°C (151°F) to	156°C (313°F)	
Boiling Point:	66 °C (151 °F) Based on first	t boiling compo		Eva	poration Rate	e:	> 1.0 (BUAC = '	()	
Flash Point: Specific Gravity:		TCC based on				nmability: nmability Lin		Category 2	ed on Cyclohexano	ne
Solubility:	$0.857 \pm 0.01 @ 23^{\circ}C \pm 2^{\circ} (73^{\circ}F \pm 3.6^{\circ})$ Solvent portion soluble in water. Resin portion separates				out.	-		UEL: 11.8% bas	sed on THF	
Partition Coefficient n Auto-ignition Tempera		ot Available F) based on TH	IF			or Pressure: or Density:		129 mm Hg @ 2 >2.0 (Air = 1)	20 °C (68 °F) base	d on
Decomposition Tempe VOC Content:	erature: Not Applicable	è		ule 1168, Test N		er Data: Visc /OC content is	osity:	Heavy bodied		
SECTION 10 - STAI	BILITY AND REACT	IVITY								
Stability:		table								
Hazardous decompos Conditions to avoid: Incompatible Materials	. К	eep away from	heat, sparks,	ced to burn, thi open flame and ses, amines, ar	other ignition		f carbon, hyd	drogen chloride	and smoke.	
•	ICOLOGICAL INFO		<u> </u>							
Toxicity:	LD50				LC50				Target Organs	
Tetrahydrofuran (THF)	Oral: 2842 mg					rs. 21,000 mg			STOT SE3	
Methyl Ethyl Ketone (MEK Cyclohexanone Acetone) Oral: 2737 mg/kg (rat), Dermal: 6480 m Oral: 1535 mg/kg (rat), Dermal: 948 mg Oral: 5800 mg/kg (rat)							STOT SE3 STOT SE3		
Reproductive Effects Not Established	Teratogenicity Not Established		enicity ablished	<u>Embryot</u> Not Esta		Sensitization Not Esta			<u>c Products</u> ablished	
	LOGICAL INFORM			1101 2013		1101 2014				
Ecotoxicity: Mobility: Degradability: Bioaccumulation:	None Known In normal use, emission of Biodegradable Minimal to none.	volatile organi	c compounds (VOC's) to the a	ir takes place	, typically at a	rate of <u><</u> 49	0g/I.		
SECTION 13 - WAS	TE DISPOSAL CON	SIDERAT	IONS							
	gulations. Consult disposal	· · · · · · · · · · · · · · · · · · ·								
Proper Shipping Name:	Adhesives									
Hazard Class:	3	[EPTION for G				
Secondary Risk: Identification Number: Packing Group:	None UN 1133 PG II		DOT Limited Quantity: Up to 1L per inner packaging, 30 kg gross weight per package. Consumer Commodity: Depending on packaging, these quantities may qualify under DOT as "ORM-D"							
Label Required:	Class 3 Flamma			TDG I	NFORMATIO	N				-
Marine Pollutant:	NO		TDG CLASS: FLAMMABL SHIPPING NAME: ADHESIVE: UN NUMBER/PACKING GROUP: UN 1133, P					S		
SECTION 15 - REG	ULATORY INFORM						,			
	ormation: Highly Flammab	le, Irritant						ECS, Canada DS		
	F, Xi R11: Highly flammable. R36/37: Irritating to eyes and	- A	AICS, Korea ECL/TCCL, Japan MITI (ENCS) CA Prop65 - Cancer R66: Repeated exposure may cause skin dryness or cracking R67: Vapors may cause drowsiness and dizziness							
- 5	S2: Keep out of the reach of children S9: Keep container in a well-ventilated place. S16: Keep away from sources of ignition - No smoki			S25: Avoid contact with eyes S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S33: Take precautionary measures against static discharges.						
SECTION 16 - OTH										
			alth & Cafaty			All ingredients	are complia	ont with the requ	irements of the Eu	irope
Specification Informatio Department issuing data E-mail address: Training necessary: Reissue date / reason fo	EHS Yes	ironmental Hea SInfo@SpearsN , training in pra)1/15 / Updateo	Mfg.net actices and pro	cedures contai	1	Directive on R			bus Substances).	