

GHS SAFETY DATA SHEET

Date Revised: JAN 2024

Spears® FS-5 One-Step Low VOC Cement for CPVC Fire Sprinkler Systems Supersedes: APRIL 2020

SECTIONI-PRODUCTAND COMPANYIDENTIFICATION

PRODUCT NAME: Spears® FS-5 One-Step Low VOC Cement CPVC Fire Sprinkler Systems

PRODUCT USE: Solvent Cement for CPVC Plastic Pipe

MANUFACTURER: Spears® Manufacturing Company 15853 Olden Street, Sylmar, CA 91342 SUPPLIER:

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	CLAS	SSIFIC	CATIO	N:

	ONO EAGON TO ATTON.								
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							

GHSLABEL:







Signal Word: Danger

WHMIS CLASSIFICATION: CLASS B. DIVISION 2

Hazard Statements

H225: Highly flammable liquid and vapor H319: Causes serious eye irritation H332: Harmful if inhaled H335: May cause respiratory irritation

H336: May cause drowsiness or dizziness H351: Suspected of causing cancer EUH019: May form explosive peroxides

Precautionary Statements P210: Keep away from heat/sparks/open flames/hot surfaces - No smoking P261: Avoid breathing dust/fume/gas/mist/vapors/spray P280: Wear protective gloves/protective clothing/eye protection/face protection P337+P313: Get medical advice/attention P403+P233: Store in a well ventilated place. Keep container tightly closed P501: Dispose of contents/container in accordance with local regulation

SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

	CAS#	EINECS#	REACH	CONCENTRATION
			Pre-registration Number	% by Weight
Tetrahydrofuran (THF)	109-99-9	203-726-8	05-2116297729-22-0000	30 - 60
Methyl Ethyl Ketone (MEK)	78-93-3	201-159-0	05-2116297728-24-0000	2 - 25
Cyclohexanone	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 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. 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. Ingestion:

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:	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
Exposure Hazards:	Inhalation and dermal contact.	Flammability	3	3	2-Moderate
Combustion Products:	Oxides of carbon, hydrogen chloride and smoke.	Reactivity	0	0	3-Serious
		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.

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.

Page 1 of 2 FS5-6-0124 SECTION8-PRECAUTIONS TO CONTROL EXPOSURE/PERSONAL PROTECTION

EXPOSUREL IMITS: CAL/OSHA OSHA CAL/OSHA PEL-Ceiling CAL/OSHA STEL Component ACGIHTLV ACGIHSTEL OSHAPEL OSHASTEL PEL Ceiling N/E N/E 250 ppm Tetrahydrofuran (THF) 50 ppm 100 ppm 200 ppm 200 ppm Methyl Ethyl Ketone (MEK) 200 ppm 300 ppm 200 ppm N/E N/F 200 ppm N/F 300 ppm N/E 25 ppm N/E N/E Cyclohexanone 20 ppm 50 ppm 50 ppm N/E 1000 ppm N/E N/E 500 ppm 3000 ppm 750 ppm Acetone 500 ppm 750 ppm

Engineering Controls: Use local exhaust as needed

Monitoring Maintain breathing zone airborne concentrations below exposure limits

Personal Protective Equipment (PPE):

Eye Protection: Avoid contact with eyes, wear splash-proof chemical googles, 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 approach, use respiratory protection equipment.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Red, heavy syrupy liquid

Odor: Ether-Like pH: Not Applicable

Melting/Freezing Point: -108.5 °C (-163.3 °F) Based on first melting component: THF

Boiling Point: 66 °C (151 °F) Based on first boiling component: THF Flash Point: -20 °C (-4 °F) TCC based on THF

Specific Gravity: 0.857 ± 0.01 @ 23°C ± 2° (73°F ± 3.6°)

Solubility: Solvent portion soluble in water. Resin portion separates out.

Partition Coefficient n-octanol/water: Not Available

321 °C (610 °F) based on THF **Auto-ignition Temperature:**

Not Applicable **Decomposition Temperature:**

VOC Content: When applied as directed, per SCAQMD Rule 1168, Test Method 316A,VOC content is: ≤ 490 g/l.

SECTION 10 - STABILITY AND REACTIVITY

Stability:

Hazardous decomposition products: None in normal use. When forced to burn, this product gives off oxides of carbon, hydrogen chloride and smoke.

Keep away from heat, sparks, open flame and other ignition sources. Conditions to avoid:

Incompatible Materials Oxidizers, strong acids and bases, amines, ammonia

SECTION 11 - TOXICOLOGICAL INFORMATION

LC₅₀ Toxicity: LD50

Target Organs Oral: 2842 mg/kg (rat) Tetrahydrofuran (THF) Inhalation 3 hrs. 21,000 mg/m3 (rat) STOT SE3 Oral: 2737 mg/kg (rat), Dermal: 6480 mg/kg (rabbit) Methyl Ethyl Ketone (MEK) Inhalation 8 hrs. 23,500 mg/m³ (rat) STOT SE3 Oral: 1535 mg/kg (rat), Dermal: 948 mg/kg (rabbit) Inhalation 4 hrs. 8,000 PPM (rat) Cyclohexanone

Acetone Oral: 5800 mg/kg (rat) Inhalation 50,100 mg/m³ (rat) STOT SE3

Reproductive Effects Sensitization to Product Synergistic Products **Teratogenicity** Mutagenicity **Embryotoxicity**

SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicity: None Known

Not Established

Mobility: In normal use, emission of volatile organic compounds (VOC's) to the air takes place, typically at a rate of ≤ 490g/l.

Not Established

Degradability: Biodegradable Bioaccumulation: Minimal to none

SECTION 13 - WASTE DISPOSAL CONSIDERATIONS

Not Established

Follow local and national regulations. Consult disposal expert

SECTION 14 - TRANSPORT INFORMATION

Proper Shipping Name: Adhesives Hazard Class: Secondary Risk: None

Identification Number: UN 1133 Packing Group: PG II

Label Required:

Class 3 Flammable Liquid Marine Pollutant: NO

EXCEPTION for Ground Shipping

DOT Limited Quantity: Up to 1L per inner packaging, 30 kg gross weight per package

Odor Threshold:

Boiling Range:

Flammability:

Vapor Pressure:

Vapor Density:

Evaporation Rate:

Flammability Limits:

Other Data: Viscosity:

0.88 ppm (Cyclohexanone)

UEL: 11.8% based on THF

Not Established

> 1.0 (BUAC = 1)

Category 2

>2.0 (Air = 1)

Heavy bodied

66°C (151°F) to 156°C (313°F)

LEL: 1.1% based on Cyclohexanone

129 mm Hg @ 20 °C (68 °F) based on THF

Consumer Commodity: Depending on packaging, these quantities may qualify under DOT as "ORM-D"

Not Established

TDG INFORMATION

Not Established

FLAMMABLE LIQUID 3 TDG CLASS: SHIPPING NAME: **ADHESIVES** UN NUMBER/PACKING GROUP: UN 1133. PG II

SECTION 15 - REGULATORY INFORMATION

Precautionary Label Information: Highly Flammable, Irritant Ingredient Listings: USA TSCA, Europe EINECS, Canada DSL, Australia Symbols: F. Xi AICS, Korea ECL/TCCL, Japan MITI (ENCS) CA Prop65 - Cancer

Risk Phrases: R11: Highly flammable. R66: Repeated exposure may cause skin dryness or cracking

R36/37: Irritating to eyes and respiratory system. R67: Vapors may cause drowsiness and dizziness

S25: Avoid contact with eves

S2: Keep out of the reach of children S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S9: Keep container in a well-ventilated place. S33: Take precautionary measures against static discharges.

S16: Keep away from sources of ignition - No smoking.

SECTION 16 - OTHER INFORMATION

Specification Information:

Safety Phrases:

Department issuing data sheet: Environmental Health & Safety All ingredients are compliant with the requirements of the European

E-mail address: EHSInfo@SpearsMfg.net Directive on RoHS (Restriction of Hazardous Substances).

Training necessary: Yes, training in practices and procedures contained in product literature.

Reissue date / reason for reissue: 01/17/24 / Updated GHS Standard Format Intended Use of Product: Solvent Cement for CPVC Plastic Pipe

This product is intended for use by skilled individuals at their own risk. The information contained herein is based on data considered accurate based on current state of knowledge and experience. However, no warranty is expressed or implied regarding the accuracy of this data or the results to be obtained from the use thereof.

> Page 2 of 2 FS5-6-0124