GHS SAFETY DATA SHEET

Spears® FlameGuard® FS-5 Low VOC Cement for CPVC Plastic Pipe

PRODUCT NAME: Spears® FlameGuard® FS-5 Low VOC Cement for CPVC Plastic Pipe

PRODUCT USE: Solvent Cement for CPVC Plastic Pipe

MANUFACTURER: Spears® Manufacturing Company

SUPPLIER: Spears® FlameGuard FS-5, 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:

Acute Toxicity: Environmental: Flammable Liquid: Physical:
Category 2
Category 3
Category 2

Signal Word: Danger

Precautionary Statements:

H220: 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
H225: Highly flammable liquid and vapor
P210: Keep away from heat/sparks/open flames/hot surfaces – No smoking
H336: May cause drowsiness or dizziness
P403+P233: Store in a well ventilated place. Keep container tightly closed

EMERGENCY:

ACGIH TLV
ACGIH STEL
OSHA PEL
OSHA STEL:

Tetrahydrofuran (THF) 109-99-9 203-726-8 05-211629729-22-0000 40 - 60
Methyl Ethyl Ketone (MEK) 78-93-3 201-159-9 05-2116297728-24-0000 2 - 15
Acetone 67-64-1 200-662-2 05-2116297713-35-0000 2 - 15
 Cyclohexanone 108-94-1 203-631-1 05-2116297718-25-0000 2 - 10

SECTION 5 - FIREFIGHTING MEASURES

Suitable Extinguishing Media: Dry chemical powder, carbon dioxide gas, foam, Halon, water fog.

Unsuitable Extinguishing Media: Water spray or stream.

Exposure Hazards: Inhalation and dermal contact

Combustion Products: Oxides of carbon, hydrogen chloride and smoke

Protection for Firefighters: Self-contained breathing apparatus or full-face positive pressure airline masks.

METHODS FOR CLEANING UP:

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.

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* 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.

Inhalation: Remove to fresh air. If breathing is stopped, give artificial respiration. If breathing is difficult, give oxygen. Seek medical advice immediately.

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 6 - ACCIDENTAL RELEASE MEASURES

Environmental Precautions: Prevent product or liquids contaminated with product from entering sewers, drains, soil or open water courses.

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.

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.

SECTION 8 - PRECAUTIONS TO CONTROL EXPOSURE / PERSONAL PROTECTION

EXPOSURE LIMITS:

Component

ACGIH TLV
ACGIH STEL
OSHA PEL
OSHA STEL:

Tetrahydrofuran (THF) 50 ppm
Methyl Ethyl Ketone (MEK) 200 ppm
Acetone 500 ppm
Cyclohexanone 20 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 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.
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: 0.986 ± 0.01 @ 23 °C ± 2 ° (73 °F ± 3.6 °)
Solubility: Not Applicable
Partition Coefficient n-octanol/water: Not Available
Auto-ignition Temperature: 321 °C (610 °F) based on THF
Decomposition Temperature: Not Applicable
Vapor Pressure: 129 mm Hg @ 20 °C (68 °F) based on THF
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: Stable
Hazardous decomposition products: None in normal use. When forced to burn, this product gives off oxides of carbon, hydrogen chloride and smoke.
Conditions to avoid: Keep away from heat, sparks, open flame and other ignition sources.
Incompatible Materials: Oxidizers, strong acids and bases, amines, ammonia

SECTION 11 - TOXICOLOGICAL INFORMATION

Likely Routes of Exposure: Inhalation, Eye and Skin Contact
Acute symptoms and effects:
Inhalation: Severe overexposure may result in nausea, dizziness, headache. Can cause drowsiness, irritation of eyes and nasal passages.
Eye 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.

Toxicity:
LD₅₀: None known to humans
Acute Oral: 2842 mg/kg (rat)  Inhalation 3 hrs. 21,000 mg/m³ (rat)
Acute Dermal: 6480 mg/kg (rabbit)  Inhalation 8 hrs. 23,500 mg/m³ (rat)
Acute Inhalation: 50,100 mg/m³ (rat)
Acute Inhalation: 8,000 PPM (rat)

SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicity: None Known
Mobility: In normal use, emission of volatile organic compounds (VOC’s) to the air takes place, typically at a rate of < 490 g/l.
Degradability: Biodegradable
Bioaccumulation: Minimal to none.

SECTION 13 - WASTE DISPOSAL CONSIDERATIONS

Follow local and national regulations. Consult disposal expert.

SECTION 14 - TRANSPORT INFORMATION

Proper Shipping Name: Solvent Cement for CPVC Plastic Pipe
Hazard Class: 3
Secondary Risk: None
Identification Number: UN 1133
Packing Group: PG II
Label Required: Class 3 Flammable Liquid
Marine Pollutant: NO

TDG INFORMATION

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

SECTION 15 - REGULATORY INFORMATION

Precautionary Label Information:
Symbol(s): F, Xi
Risk Phrases: R11: Highly flammable.
R36/37: Irritating to eyes and respiratory system.
Safety Phrases: S2: Keep out of the reach of children.:
S5: Keep container in a well-ventilated place.
S16: Keep away from sources of ignition - No smoking.
S22: Avoid contact with eyes.
S24: 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 - OTHER INFORMATION

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.

Environmental Health & Safety All ingredients are compliant with the requirements of the European Directive on RoHS (Restriction of Hazardous Substances).

Specifications:
E-mail address: EHSInfo@SpearsMfg.net
Intended Use of Product: Solvent Cement for CPVC Plastic Pipe

Additional Information:
For more information, visit the company's website or contact the manufacturer directly.