

MATERIAL SAFETY DATA SHEET

Finished Product



Date Issued: 01/07/2003
MSDS No: 2106-G/5G
Date Revised: 04/28/2009
Revision No: 4

Fine-L-Kote HT

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Fine-L-Kote HT
PRODUCT DESCRIPTION: Silicone Conformal Coating
PRODUCT CODE: 2106-G, 2106-5G

MANUFACTURER

Techspray, L.P.
1001 N.W. 1st Street
P.O. Box 949
Amarillo TX 79107

Emergency Contact: Chemtrec
Product Stewardship: 1-800-858-4043
Service Number: 1-800-858-4043

24 HR. EMERGENCY TELEPHONE NUMBERS

CHEMTREC (US Transportation) :(800) 424 - 9300
CANUTEC (Canadian Transportation) :(613) 996 - 6666
Emergency Phone :(800) 858 - 4043

COMMENTS: This MSDS was reviewed on 1 Dec. 2006.

2. HAZARDS IDENTIFICATION

HAZARD DESIGNATION

"F" - Highly flammable
R11 - Highly flammable.
"Xn" - Harmful
R20/21 - Harmful by inhalation and in contact with skin.
R36 - Irritating to eyes.
"N" - Dangerous for the environment
R52/53 - Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

EMERGENCY OVERVIEW

IMMEDIATE CONCERNS: Flammable liquid and vapor. Vapors and/or aerosols which may be formed at elevated temperatures may be irritating to eyes and respiratory tract.

POTENTIAL HEALTH EFFECTS

EYES: Severely irritating. If not removed promptly, will injure eye tissue, which may result in permanent damage.

SKIN: Prolonged or repeated contact may cause skin irritation.

INGESTION: This product is toxic by ingestion. Ingestion may cause irritation of the digestive tract. Nausea and vomiting will most likely occur.

INHALATION: Prolonged or repeated inhalation may cause lung damage and/or central nervous system disturbances.

SIGNS AND SYMPTOMS OF OVEREXPOSURE

EYES: Symptoms of overexposure include: stinging, tearing, redness and pain.

SKIN: Prolonged exposure causes redness, pain, drying and cracking of the skin.

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INGESTION: Swallowing of this material may result in nausea, vomiting and weakness followed by central nervous system depression.

INHALATION: High concentrations may lead to central nervous system effects (drowsiness, dizziness, nausea, headaches, paralysis and loss of consciousness).

ACUTE TOXICITY: Overexposure may cause dizziness and loss of concentration. At higher levels, CNS depression and cardiac arrhythmia may result.

CHRONIC EFFECTS: CNS depression, dermatitis, reproductive hazard.

ROUTES OF ENTRY: Inhalation is major route of entry.

TARGET ORGAN STATEMENT: Prolonged or repeated overexposure may cause central nervous system, kidney, liver, and lung damage.

SENSITIZATION: Possible cardiac sensitization.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Wt. %	CAS	EINECS
Benzene- methyl, (Toluene)	50 - 70	108-88-3	203-625-9
Xylenes (o-,m-,p- isomers)	10 - 20	1330-20-7	
Polysiloxane mixture	13 - 24		

4. FIRST AID MEASURES

EYES: Immediately flush eyes with plenty of water for at least 15 minutes. Get immediate medical attention.

SKIN: Immediately flush with large amounts of water. Use soap if available. Remove contaminated clothing, including shoes, after flushing has begun. Get prompt medical attention.

INGESTION: Aspiration hazard. If swallowed, vomiting may occur spontaneously, but do not induce. If vomiting occurs, keep head below hips to prevent aspiration into lungs. Call a physician immediately.

INHALATION: Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Seek immediate medical attention.

5. FIRE FIGHTING MEASURES

FLASHPOINT AND METHOD: (40°F) TAG CC

FLAMMABLE LIMITS: Not Established to Not Established

GENERAL HAZARD: Flammable Liquid. Can release vapors that form explosive mixtures at temperatures at or above the flash point.

EXTINGUISHING MEDIA: Water, foam, dry chemical, carbon dioxide.

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HAZARDOUS COMBUSTION PRODUCTS: Smoke, fumes and oxides of carbon.

EXPLOSION HAZARDS: Vapors may form explosive mixture with air.

FIRE FIGHTING PROCEDURES: Use water spray to keep fire-exposed containers cool and to knock down vapors which may result from product decomposition.

FIRE FIGHTING EQUIPMENT: As in any fire, wear self-contained breathing apparatus pressure-demand, (MSHA/NIOSH approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILL: Dike area to contain spill. Take precautions as necessary to prevent contamination of ground and surface waters. Recover spilled material on adsorbent, such as sawdust or vermiculite, and sweep into closed containers for disposal. After all visible traces, including ignitable vapors, have been removed thoroughly wet vacuum the area. Do not flush to sewer. If area of spill is porous, remove as much contaminated earth and gravel, etc. as necessary and place in closed containers for disposal.

ENVIRONMENTAL PRECAUTIONS

WATER SPILL: NEVER FLUSH TO SEWER.

GENERAL PROCEDURES: Absorb the liquid and scrub the area with detergent and water.

7. HANDLING AND STORAGE

HANDLING: Empty containers will retain product residue and vapor and should be handled as if they were full.

STORAGE: Store in a cool place in original container and protect from sunlight.

STORAGE TEMPERATURE: Store in a cool place below (120) F (49) C.

STORAGE PRESSURE: Store at local atmospheric pressure.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200)							
		EXPOSURE LIMITS					
		OSHA PEL		ACGIH TLV		SupplierOEL	
Chemical Name		ppm	mg/m ³	ppm	mg/m ³	ppm	mg/m ³
Benzene- methyl, (Toluene)	TWA	200 ppm [1]	375 mg/m ³ [1]	S 50 ppm [3]	188 mg/m ³ [3]	NL	NL
	STEL	C300 ppm [2]	560 mg/m ³ [2]	NL ppm	NL mg/m ³	NL	NL
Xylenes (o-,m-,p- isomers)	TWA	435 mg/m ³		434 mg/m ³			
	STEL	150 ppm		651 mg/m ³			

OSHA TABLE COMMENTS:

- NL = Not Listed
- C = Ceiling
- S = Skin

ENGINEERING CONTROLS: Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.

PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE: Wear safety glasses with side shields (or goggles) and a face shield.

SKIN: The glove(s) listed below may provide protection against permeation. Gloves of other chemically resistant materials may not provide adequate protection. Viton, Solvex, Butyl, Buna, Neoprene.

RESPIRATORY: A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.

WORK HYGIENIC PRACTICES: Wash hands before eating and wash before reuse.

OTHER USE PRECAUTIONS: Emergency shower and eyewash facility should be in close proximity.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Liquid

ODOR: Aromatic odor.

APPEARANCE: Clear water-white viscous liquid with aromatic odor.

COLOR: Colorless

PERCENT VOLATILE: 80

VAPOR DENSITY: > 1 (Air=1)

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BOILING POINT: 110°C (230°F)
FREEZING POINT: Not Determined
FLASHPOINT AND METHOD: (40°F) TAG CC
SOLUBILITY IN WATER: Insoluble
EVAPORATION RATE: Not Established
DENSITY: 0.92
(VOC): 724.000 g/L (non-exempt VOC)

10. STABILITY AND REACTIVITY

STABLE: Yes
HAZARDOUS POLYMERIZATION: No
STABILITY: Stable.
CONDITIONS TO AVOID: Heat, flames, ignition sources, and incompatibles.
HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of Carbon (CO and CO₂) may form when heated to decomposition.
INCOMPATIBLE MATERIALS: Oxidizing materials.

11. TOXICOLOGICAL INFORMATION**ACUTE**

Chemical Name	ORAL LD ₅₀ (rat)	INHALATION LC ₅₀ (rat)
Xylenes (o-,m-,p- isomers)	4300 mg/kg	5000 ppm

EYES: Moderately to severely irritating
DERMAL LD₅₀: 12124 mg/kg (rabbit)
ORAL LD₅₀: 636 mg/kg (rat)
INHALATION LC₅₀: 5000 ppm, 4-hour

EYE EFFECTS: High vapor concentrations may cause moderate to severe eye irritation.

SKIN EFFECTS: Causes irritation to skin.

CARCINOGENICITY

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Chemical Name	NTP Status	IARC Status	OSHA Status
Xylenes (o-,m-,p- isomers)		Group 3	
Polysiloxane mixture	NOT LISTED	NOT LISTED	NOT LISTED

IARC: NOT listed**NTP:** NOT listed**OSHA:** NOT listed**REPRODUCTIVE EFFECTS:** Xylene and toluene are listed as reproductive hazards.**12. ECOLOGICAL INFORMATION**

ENVIRONMENTAL DATA: There is limited information available on the environmental fate and effects of this material. The primary environmental concern for release is the impact on aquatic and terrestrial species. Due care should be taken to avoid the accidental release of this material into the environment.

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: Federal, State, and Local laws governing disposal of materials can differ. Ensure compliance with proper authorities before disposal.

GENERAL COMMENTS: Dispose of in a manner consistent with federal, state, and local regulations.

14. TRANSPORT INFORMATION**DOT (DEPARTMENT OF TRANSPORTATION)****PROPER SHIPPING NAME:** Flammable Liquid, N.O.S. (Toluene, Xylene)**PRIMARY HAZARD CLASS/DIVISION:** 3**UN/NA NUMBER:** UN1993**PACKING GROUP:** II**ROAD AND RAIL (ADR/RID)****KEMLER NUMBER:** UN1993**HAZARD CLASS:** 3**AIR (ICAO/IATA)****SHIPPING NAME:** Flammable Liquid, N.O.S. (Toluene, Xylene)**UN/NA NUMBER:** UN1993**PRIMARY HAZARD CLASS/DIVISION:** 3**PACKING GROUP:** II**VESSEL (IMO/IMDG)**

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Fine-L-Kote HT**SHIPPING NAME:** Flammable Liquid, N.O.S. (Toluene, Xylene)**UN/NA NUMBER:** UN1993**PRIMARY HAZARD CLASS/DIVISION:** 3.2**PACKING GROUP:** II**NOTE:** Page 3285. Note 2106-P can ship as DANGEROUS GOODS IN LIMITED QUANTITIES OF CLASS 3.**15. REGULATORY INFORMATION****UNITED STATES****SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)****311/312 HAZARD CATEGORIES:** IMMEDIATE / DELAYED**FIRE:** Yes **ACUTE:** Yes **CHRONIC:** Yes**313 REPORTABLE INGREDIENTS:** Xylene Toluene**EPCRA SECTION 313 SUPPLIER NOTIFICATION**

Chemical Name	Wt. %	CAS
Benzene- methyl, (Toluene)	50 - 70	108-88-3

302/304 EMERGENCY PLANNING**EMERGENCY PLAN:** Listed in Table 302.4 of 40 CFR Part 302 as a hazardous substance with a reportable quantity of 1000 lbs.**CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)****CERCLA REGULATORY:** Contains toluene (#108-88-3). Contains xylene (#1330-20-7).

Chemical Name	Wt. %	CERCLA RQ
Benzene- methyl, (Toluene)	50 - 70	1000 lbs.

CERCLA RQ: 1000 Lbs.**TSCA (TOXIC SUBSTANCE CONTROL ACT)**

Chemical Name	CAS
Benzene- methyl, (Toluene)	108-88-3
Xylenes (o-,m-,p- isomers)	1330-20-7

TSCA STATUS: All components of this product are either listed or exempt from listing in the TSCA inventory.**CLEAN AIR ACT**

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Chemical Name	Wt.%	CAS
Benzene- methyl, (Toluene)	50 - 70	108-88-3

40 CFR PART 68---RISK MANAGEMENT FOR CHEMICAL ACCIDENT RELEASE

PREVENTION: Xylenes (CAS# 1330-20-7) and Toluene (CAS# 108-88-3) are considered SOCOMI chemicals.

OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA)**29 CFR1910.119---PROCESS SAFETY MANAGEMENT OF HIGHLY HAZARDOUS**

CHEMICALS: None of the chemicals in this product are considered highly hazardous by OSHA.

CALIFORNIA PROPOSITION 65: This product contains a component known to the state of California to cause reproductive toxicity: Toluene (CAS#108883)

Chemical Name	Wt.%	Listed
Benzene- methyl, (Toluene)	50 - 70	Developmental Toxicity

RCRA STATUS: U220 U239

OSHA HAZARD COMM. RULE: Contents of this MSDS comply with the OSHA Hazard Communication Standard 29 CFR 1910.1200.

CLEAN WATER ACT: Listed as a Priority Pollutant under the Clean Water Act.

CANADA

WHMIS (WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM): This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

EUROPEAN COMMUNITY**EEC LABEL SYMBOL AND CLASSIFICATION**

"F" - Highly flammable
 R11 - Highly flammable.



"Xn" - Harmful
 R20/21 - Harmful by inhalation and in contact with skin.

R36 - Irritating to eyes.



"N" - Dangerous for the environment
 R52/53 - Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

16. OTHER INFORMATION

APPROVED BY: Pierce A. Pillon **TITLE:** Chemist

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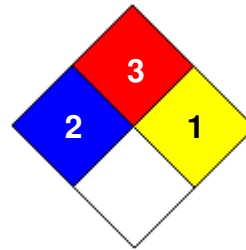
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REVISION SUMMARY: Revision #: 4. This MSDS replaces the December 01, 2006 MSDS. Any changes in information are as follows: In Section 14: Air (IATA /ICAO) - Note

NFPA CODES



DATA SOURCES: Code of Federal Regulations (CFR) The Sigma-Aldrich Library of Regulatory and Safety Data OSHA Hazard Communication Standard (29CFR1910.1200) Various Federal, State and Local Regulations

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