

MATERIAL SAFETY DATA SHEET

Finished Product



Date Issued: 01/08/2003

MSDS No: 2106-12S

Date Revised: 11/15/2012

Revision No: 9

Fine-L-Kote HT

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Fine-L-Kote HT

PRODUCT DESCRIPTION: Silicone Conformal Coating

PRODUCT CODE: 2106/CAN/EUR-12S

MANUFACTURER

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

Emergency Contact: Chemtrec

Emergency Phone: 1-800-858-4043

Service Number: 1-800-858-4043

24 HR. EMERGENCY TELEPHONE NUMBERS

CHEMTREC CCN#21858 (US Transportation) :(800) 424 - 9300

CANUTEC (Canadian Transportation) :(613) 996 - 6666

Emergency Phone :(800) 858 - 4043

2. HAZARDS IDENTIFICATION

HAZARD DESIGNATION

"F" - Highly flammable

R11 - Highly flammable.

"Xi" - Irritant

R38 - Irritating to skin.

"Xn" - Harmful

R20/22 - Harmful by inhalation and if swallowed.

R63 - Possible risk of harm to the unborn child.

R67 - Vapors may cause drowsiness and dizziness.

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.

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,

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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
Xylenes (o-,m-,p- isomers)	10 - 15	1330-20-7	
Benzene- methyl, (Toluene)	30 - 50	108-88-3	203-625-9
Polysiloxane mixture	13 - 24		
1,1,1,2-Tetrafluoroethane	20 - 40	811-97-2	212-337-0

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.

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

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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

EXPOSURE GUIDELINES

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
Xylenes (o-,m-,p- isomers)	TWA	435 mg/m ³		434 mg/m ³			
	STEL	150 ppm		651 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
1,1,1,2-Tetrafluoroethane	TWA	NE		NE		1,000 ppm ^[4]	[4]

OSHA TABLE COMMENTS:

1. NL = Not Listed
2. C = Ceiling
3. S = Skin
4. * (AEL)=Acceptable Exposure Limit as established by the manufacture

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

PERSONAL PROTECTIVE EQUIPMENT

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

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

Chemical Name	Boiling Point (°C)	Freezing Point (°C)	Solubility in Water	Specific Gravity
1,1,1,2-Tetrafluoroethane	-26.4	-101	NEGLIGIBLE	1.21

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)

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

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Chemical Name	ORAL LD ₅₀ (rat)	INHALATION LC ₅₀ (rat)
Xylenes (o-,m-,p- isomers)	4300 mg/kg	5000 ppm
1,1,1,2-Tetrafluoroethane		> 500000 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

Chemical Name	NTP Status	IARC Status	OSHA Status
Xylenes (o-,m-,p- isomers)		Group 3	
Polysiloxane mixture	NOT LISTED	NOT LISTED	NOT LISTED
1,1,1,2-Tetrafluoroethane	NOT LISTED	NOT LISTED	NOT LISTED

IARC: Xylenes and Toluene are listed as IARC 3.

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: 1,1,1,2-tetrafluoroethane is subject to U.S. Environmental Protection Agency Clean Air Act Regulations, Section 608 in 40 CFR Part 82 regarding refrigerant recycling.

14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)

PROPER SHIPPING NAME: CONSUMER COMMODITY ORM-D

PRIMARY HAZARD CLASS/DIVISION: No classification

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UN/NA NUMBER: NA

PACKING GROUP: NA

ROAD AND RAIL (ADR/RID)

KEMLER NUMBER: UN1950

HAZARD CLASS: 2.1

AIR (ICAO/IATA)

SHIPPING NAME: CONSUMER COMMODITY ID8000

UN/NA NUMBER: ID8000

PRIMARY HAZARD CLASS/DIVISION: 9

PACKING GROUP: NA

VESSEL (IMO/IMDG)

SHIPPING NAME: AEROSOLS IN LIMITED QUANTITIES OF CLASS 2

UN/NA NUMBER: UN1950

PRIMARY HAZARD CLASS/DIVISION: 2.1

PACKING GROUP: NA

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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)	30 - 50	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)	30 - 50	1000 lbs.

CERCLA RQ: Xylene - 100 Lbs; Toluene - 1000 Lbs.

TSCA (TOXIC SUBSTANCE CONTROL ACT)

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Chemical Name	CAS
Xylenes (o-,m-,p- isomers)	1330-20-7
Benzene- methyl, (Toluene)	108-88-3
1,1,1,2-Tetrafluoroethane	811-97-2

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

CLEAN AIR ACT

Chemical Name	Wt. %	CAS
Benzene- methyl, (Toluene)	30 - 50	108-88-3
1,1,1,2-Tetrafluoroethane	20 - 40	811-97-2

40 CFR PART 68---RISK MANAGEMENT FOR CHEMICAL ACCIDENT RELEASE PREVENTION: Xylenes (CAS# 1330-20-7) and Toluene (CAS# 108-88-3) are considered SOCMCI 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)

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

CLEAN WATER ACT: Xylene (100 Lbs RQ); Toluene (1000 Lbs RQ)

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

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EEC LABEL SYMBOL AND CLASSIFICATION



"F" - Highly flammable
R11 - Highly flammable.



"Xi" - Irritant
R38 - Irritating to skin.



"Xn" - Harmful
R20/22 - Harmful by inhalation and if swallowed.

R63 - Possible risk of harm to the unborn child.

R67 - Vapors may cause drowsiness and dizziness.

GENERAL COMMENTS: 1,1,1,2-tetrafluoroethane is subject to U.S. Environmental Agency Clean Air Act Regulations, (40CFR Part 82).

COMMENTS WARNING: Contains 1,1,1,2-tetrafluoroethane (HFC-134a), a greenhouse gas which may contribute to global warming.

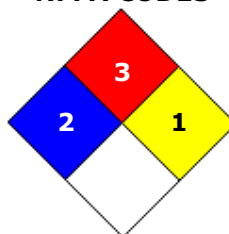
16. OTHER INFORMATION

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

PREPARED BY: Steve Cook

REVISION SUMMARY: This MSDS replaces the 10/14/2009 MSDS.

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

GENERAL STATEMENTS: Product manufactured after 13 October 2009 contains toluene (CAS 108-88-3).

MANUFACTURER DISCLAIMER: To the best of our knowledge, the information contained herein is accurate. However, neither Tech Spray, L.P., or any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist.