Finished Product



Date Issued: 01/08/2003 **MSDS No:** 2103-12S

Date Revised: 02/03/2012

Revision No: 11

Fine-L-Kote AR

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Fine-L-Kote AR

PRODUCT DESCRIPTION: Acrylic Conformal Coating

PRODUCT CODE: 2103/CAN/EUR-12S

ACTIVE INGREDIENT(S): Acrylic polymer; n-Propyl acetate; Acetone

MANUFACTURER

24 HR. EMERGENCY TELEPHONE NUMBERS

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

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.

"Xn" - Harmful

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

R36/37/38 - Irritating to eyes, respiratory system and skin.

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: Substance causes substantial eye irritation.

SKIN: Prolonged or repeated contact can result in defatting and drying of the skin which may result in skin irritation and dermatitis (rash).

INGESTION: Moderately toxic. May cause headaches and dizziness.

INHALATION: Harmful if inhaled. 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: For large amounts; abdominal pain, nausea and vomiting.

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

3. COMPOSITION / INFORMATION ON INGREDIENTS

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Chemical Name	Wt.%	CAS	EINECS
Acrylic polymer	5 - 20	28262-63-7	
n-Propyl acetate	20 - 40	109-60-4	2036861
Acetone	10 - 30	67-64-1	200-662-2
1,1,1,2-Tetrafluoroethane	20 - 50	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: Wash with soap and water. Get medical attention if irritation develops or persists.

INGESTION: Do not induce vomiting. Give milk or water. Get immediate medical attention 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: < 4.4°C (40°F) TAG CC

FLAMMABLE LIMITS: LEL: 1.7% to UEL: 8.0%

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

EXTINGUISHING MEDIA: Use alcohol foam, carbon dioxide, or water spray when fighting fires involving this material.

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: Absorb the liquid and scrub the area with detergent and water. Pick up wash liquid with additional absorbent and place in a disposable container. Do not flush to sewer.

GENERAL PROCEDURES: Forms smooth, slippery surfaces on floors, posing an accident risk. Wear a self-contained breathing apparatus and appropriate personal protective equipment. (See Exposure Controls/Personal Protection Section). Contain spilled liquid with sand or earth. DO NOT use combustible materials such as sawdust.

7. HANDLING AND STORAGE

HANDLING: Ground and bond containers when transferring material.

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

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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EXPOSURE GUIDELINES

OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200)							
		EXPOSURE LIMITS					
		OSHA PEL ACGIH TLV Supplier			ierOEL		
Chemical Name		ppm	mg/m³	ppm	mg/m³	ppm	mg/m³
n-Propyl acetate	TWA		200 ppm		200 ppm		
III-PTOPYI acetate	STEL		250 ppm		250 ppm		
Acetone	TWA	750 ppm ^[1]	1800 mg/m3 ^[1]	750 ppm	1780 mg/m3	NL ppm	NL mg/m3
Acetone	STEL	1000 ppm	2400 mg/m3	1000 ppm	2380 mg/m3	NL ppm	NL mg/m3
1,1,1,2-Tetrafluoroethane	TWA	NE		NE		1,000 ppm ^[2]	[2]

OSHA TABLE COMMENTS:

- **1**. NL = Not Listed
- 2. * (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

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.

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:** Characteristic odor.

APPEARANCE: Clear, Colorless liquid **PERCENT VOLATILE:** 79 at 25°C (68°F)

VAPOR DENSITY: > 1 (Air=1) **BOILING POINT:** 110°C (230°F)

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MELTING POINT: 163° C (325.4° F) to 249° C (480.2° F) **FLASHPOINT AND METHOD:** < 4.4° C (40° F) TAG CC

SOLUBILITY IN WATER: Negligible

SPECIFIC GRAVITY: 0.870 to 0.900 (water=1) **VISCOSITY #1:** 34 to 54 Centipoise at 25°C (68°F)

(VOC): 256.000 g/L (non-exempt VOC)

10. STABILITY AND REACTIVITY

STABLE: Yes

HAZARDOUS POLYMERIZATION: No

CONDITIONS TO AVOID: Heat, flames, ignition sources, and incompatables. **INCOMPATIBLE MATERIALS:** Metals. Acidic conditions. Oxidizing materials.

11. TOXICOLOGICAL INFORMATION

ACUTE

Chemical Name	ORAL LD ₅₀ (rat)	DERMAL LD ₅₀ (rabbit)	INHALATION LC ₅₀ (rat)
n-Propyl acetate	9370 mg/kg	> 20 ml/kg	8000 ppm
Acetone	5800 mg/kg	20 g/kg	50100 ppm
1,1,1,2-Tetrafluoroethane			> 500000 ppm

EYES: 20 mg

Notes: Irritation eye rabbit, severe **DERMAL LD₅₀:** > 20 mg/kg (rabbit) **ORAL LD₅₀:** 9370 mg/kg (rat)

INHALATION LC₅₀: 8000 ppm, 4-hour

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

SKIN EFFECTS: The mixture is a mild to severe skin irritant but is not a skin sensitizer in animals.

CARCINOGENICITY

Chemical Name	NTP	IARC	OSHA
	Status	Status	Status
n-Propyl acetate	NOT	NOT	NOT
	LISTED	LISTED	LISTED
Acetone	NOT	NOT	NOT
	LISTED	LISTED	LISTED
1,1,1,2-Tetrafluoroethane	NOT	NOT	NOT
	LISTED	LISTED	LISTED

IARC: NOT listed

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NTP: NOT listed OSHA: NOT listed

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL DATA: Oxygen Demand Data- (information for n-Propyl Acetate) BOD-5: 134 g oxygen/g

ThOD: 2.04 g oxygen/g

ECOTOXICOLOGICAL INFORMATION: Rainbow trout LC50=5540 mg/L/96H, Static conditions, 11-13 degrees C, Fathead Minnow LC50=7280 - 8120 mg/L/96H Flow-through conditions, Bluegill LC50 = 8300 mg/L/96H

13. DISPOSAL CONSIDERATIONS

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

14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)

PROPER SHIPPING NAME: CONSUMER COMMODITY ORM-D

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

NOTE: Page 2102

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

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EPCRA SECTION 313 SUPPLIER NOTIFICATION

Chemical Name	Wt.%	CAS
Acetone	10 - 30	67-64-1

CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)

CERCLA REGULATORY: Acetone (67-64-1)

Chemical Name	Wt.%	CERCLA RQ
Acetone	10 - 30	5000 lbs.

REPORTABLE SPILL QUANTITY: 5000 lbs.

TSCA (TOXIC SUBSTANCE CONTROL ACT)

Chemical Name		CAS
Acrylic polymer	:	28262-63-7
n-Propyl acetate		109-60-4
Acetone		67-64-1
1,1,1,2-Tetrafluoroethane		811-97-2

TSCA STATUS: All chemicals in this product are listed in the TSCA inventory.

CLEAN AIR ACT

Chemical Name	Wt.%	CAS
1,1,1,2-Tetrafluoroethane	20 - 50	811-97-2

CALIFORNIA PROPOSITION 65: This product does not contain any chemicals known to the State of California to cause cancer.

RCRA STATUS: U002 D001

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

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.

WHMIS CLASS: Class A, B5, D2B (Aerosol, Flammable Aerosol, Toxic Materials)

EUROPEAN COMMUNITY

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EEC LABEL SYMBOL AND CLASSIFICATION



"F" - Highly flammable R11 - Highly flammable.



"Xn" - Harmful

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

R36/37/38 - Irritating to eyes, respiratory system and skin.

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

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

16. OTHER INFORMATION

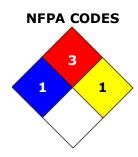
APPROVED BY: Pierce A. Pillon TITLE: Chemist

PREPARED BY: Steve Cook

REVISION SUMMARY: This MSDS replaces the 02/03/2012 MSDS.

HMIS RATING

HEALTH	1
FLAMMABILITY	3
PHYSICAL HAZARD	1
PERSONAL PROTECTION	



GENERAL STATEMENTS: This MSDS was reviewed on 21 December 2006.

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

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