

MATERIAL SAFETY DATA SHEET

Finished Product

Date-Issued: 01/08/2003
MSDS Ref. No: 2103-12S
Date-Revised: 05/07/2004
Revision No: 1

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

MANUFACTURER

Techspray, L.P.
1001 N.W. 1st Street
P.O. Box 949
Amarillo, TX 79107
Contact: Chemtrec
Product Stewardship: 1-800-858-4043

24 HR. EMERGENCY TELEPHONE NUMBERS

CHEMTREC (U.S.): (800) 424-9300
CANUTEC: (613) 996-6666
Emergency Phone: 1-800-858-4043

2. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Chemical Name</u>	<u>Wt.%</u>	<u>CAS#</u>	<u>EINECS#</u>
Acrylic polymer	10 - 30	028262-63-7	
n-Propyl acetate	50 - 55	109-60-4	2036861
Acetone	25 - 30	67-64-1	200-662-2

EEC LABEL SYMBOL AND CLASSIFICATION



R11 - Highly flammable.

EEC Highly flammable - "F"



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

EEC Harmful - "Xn"

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.

EEC Environment - "N"

3. HAZARDS IDENTIFICATION

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).

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

EXPOSURE GUIDELINES:

OSHA HAZARDOUS COMPONENTS (29 CFR 1910.1200)

<u>EXPOSURE LIMITS</u>					
<u>OSHA PEL</u>		<u>ACGIH TLV</u>		<u>Supplier OEL</u>	
<u>ppm</u>	<u>mg/m³</u>	<u>ppm</u>	<u>mg/m³</u>	<u>ppm</u>	<u>mg/m³</u>

n-Propyl acetate	TWA	200	200				
	STEL	250	250				
Acetone	TWA	750 ^[1]	1800	750	1780	NL	NL
	STEL	1000	2400	1000	2380	NL	NL

OSHA TABLE COMMENTS:

1. NL = Not Listed

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.

Butyl Rubber

Solvex

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

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)

MELTING POINT: 163°C (325.4°F) to 249°C (480.2°F)

SOLUBILITY IN WATER: Negligible

SPECIFIC GRAVITY: 0.870 to 0.900 (water=1)

VISCOSITY: 34 to 54Centipoise at 25°C (68°F)

(VOC): 456 g/L (non-exempt VOC)

10. STABILITY AND REACTIVITY

STABLE: YES

HAZARDOUS POLYMERIZATION: NO

CONDITIONS TO AVOID: Heat, flames, ignition sources, and incompatibles.

INCOMPATIBLE MATERIALS: Metals. Acidic conditions. Oxidizing materials.

11. TOXICOLOGICAL INFORMATION

ACUTE

EYES: 20 mg

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:

IARC: NOT listed

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

AIR (ICAO/IATA)

PROPER SHIPPING NAME: CONSUMER COMMODITY ID8000

PRIMARY HAZARD CLASS/DIVISION: 9

UN/NA NUMBER: ID8000

PACKING GROUP: NA

IATA NOTE: Domestic shipments only. When shipping International contact TechSpray shipping department.

VESSEL (IMO/IMDG)

PROPER SHIPPING NAME: AEROSOLS IN LIMITED QUANTITIES OF CLASS 2

PRIMARY HAZARD CLASS/DIVISION: 2.1

UN/NA NUMBER: UN1950

PACKING GROUP: NA

IMDG 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

CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)

CERCLA REGULATORY: Acetone (67-64-1)

REPORTABLE SPILL QUANTITY: 5000 lbs.

TSCA (TOXIC SUBSTANCE CONTROL ACT)

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

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

16. OTHER INFORMATION

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

PREPARED BY: Steve Cook

REVISION SUMMARY Revision #: 1

This MSDS replaces the MSDS. Any changes in information are as follows:

In Section 9

Specific Gravity (Unit)

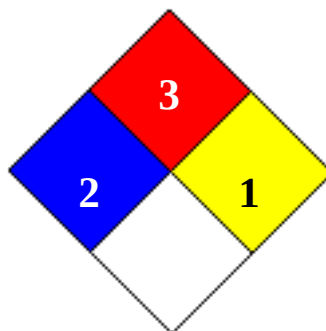
In Section 15

EEC Symbol Id. EEC Risk Phrase Codes

HMIS RATING

HEALTH:		2
FLAMMABILITY:		3
PHYSICAL HAZARD:		1
PERSONAL PROTECTION:		

NFPA CODES



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