

MATERIAL SAFETY DATA SHEET



Date Issued: 04/08/2008

MSDS No: 2108-12S

Turbo-Coat Acrylic Coating

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Turbo-Coat Acrylic Coating**PRODUCT DESCRIPTION:** Acrylic conformal coating**PRODUCT CODE:** 2108-12S**ACTIVE INGREDIENT(S):** Acrylic Polymer (non-hazardous); n-Propyl acetate; Acetone

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

2. HAZARDS IDENTIFICATION

HAZARD DESIGNATION

"F" - Highly flammable

R11 - Highly flammable.

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 (non-hazardous)	5 - 15		
n-Propyl acetate	20 - 40	109-60-4	2036861
n-Heptane	5 - 15	142-82-5	
Acetone	10 - 30	67-64-1	200-662-2
1-(2-Methoxy-Methyl-Ethoxy)-2-Propanol Acetate	1 - 5	88917-22-0	
1,1,1,2-Tetrafluoroethane	30 - 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: 1.4°C (35°F) TAG CC

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.

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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. Keep away from heat and flame.

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
n-Propyl acetate	TWA		200 ppm		200 ppm		
	STEL		250 ppm		250 ppm		
n-Heptane	TWA	400 ppm	1600 mg/m ³	400 ppm			
	STEL	500 ppm	2000 mg/m ³	500 ppm			
Acetone	TWA	750 ppm ^[1]	1800 mg/m ³ ^[1]	750 ppm	1780 mg/m ³	NL ppm	NL mg/m ³
	STEL	1000 ppm	2400 mg/m ³	1000 ppm	2380 mg/m ³	NL ppm	NL mg/m ³
1,1,1,2-Tetrafluoroethane	TWA	NE		NE		1,000 ppm ^[2]	^[2]

OSHA TABLE COMMENTS:

- NL = Not Listed
- * (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.

WORK HYGIENIC PRACTICES: Avoid contact with eyes. Avoid fume inhalation. Limit skin contact.

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

9. PHYSICAL AND CHEMICAL PROPERTIES

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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: 93.4 at 25°C (68°F)

VAPOR PRESSURE: 14.52 mmHg@20C (VOC Composite Vapor Pressure)

VAPOR DENSITY: > 1 (Air=1)

BOILING POINT: 39.4°C (103°F)

Notes: Initial boiling point

FLASHPOINT AND METHOD: 1.4°C (35°F) TAG CC

SOLUBILITY IN WATER: Negligible

EVAPORATION RATE: > 1 (n-Butyl Acetate=1)

DENSITY: 0.834 at 25°C (77°F)

VISCOSITY #1: 10 to 20 Centipoise at 25°C (77°F)

(VOC): 33.240 % by weight

10. STABILITY AND REACTIVITY

STABILITY: Stable under normal conditions.

POLYMERIZATION: Will not occur.

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

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

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

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

ROAD AND RAIL (ADR/RID)

KEMLER NUMBER: UN1950



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HAZARD CLASS: 2.1

AIR (ICAO/IATA)

SHIPPING NAME: CONSUMER COMMODITY ID8000

UN/NA NUMBER: ID8000

PRIMARY HAZARD CLASS/DIVISION: 9

PACKING GROUP: NA

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

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

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
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

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Chemical Name	Wt. %	CAS
1,1,1,2-Tetrafluoroethane	30 - 50	811-97-2

OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA)

29 CFR 1910.119---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 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

EEC LABEL SYMBOL AND CLASSIFICATION



"F" - Highly flammable
R11 - Highly flammable.

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

16. OTHER INFORMATION

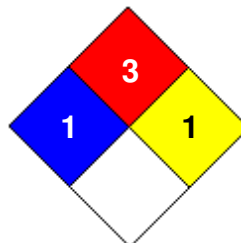
APPROVED BY: Pierce A. Pillon **TITLE:** Chemist

REVISION SUMMARY: New MSDS

HMIS RATING

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

NFPA CODES



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

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used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist.