



# MATERIAL SAFETY DATA SHEET

Date Issued: 04/08/2008  
MSDS No: 2108-12S  
Date Revised: 07/25/2012  
Revision No: 3

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

#### 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.

### 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

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### EXPOSURE GUIDELINES

OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200)							
		EXPOSURE LIMITS					
		OSHA PEL		ACGIH TLV		Supplier OEL	
Chemical Name		ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
n-Propyl acetate	TWA		200 ppm		200 ppm		
	STEL		250 ppm		250 ppm		
n-Heptane	TWA	400 ppm	1600 mg/m <sup>3</sup>	400 ppm			
	STEL	500 ppm	2000 mg/m <sup>3</sup>	500 ppm			
Acetone	TWA	750 ppm <sup>[1]</sup>	1800 mg/m <sup>3</sup> <sup>[1]</sup>	750 ppm	1780 mg/m <sup>3</sup>	NL ppm	NL mg/m <sup>3</sup>
	STEL	1000 ppm	2400 mg/m <sup>3</sup>	1000 ppm	2380 mg/m <sup>3</sup>	NL ppm	NL mg/m <sup>3</sup>
1,1,1,2-Tetrafluoroethane	TWA	NE		NE		1,000 ppm <sup>[2]</sup>	<sup>[2]</sup>
<b>OSHA TABLE COMMENTS:</b>							
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.

**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

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

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**ODOR:** Characteristic odor.

**APPEARANCE:** Clear, Colorless liquid

**PERCENT VOLATILE:** 93.4 at 25°C (77°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 <sub>50</sub> (rat)	DERMAL LD <sub>50</sub> (rabbit)	INHALATION LC <sub>50</sub> (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 LD<sub>50</sub>:** > 20 mg/kg (rabbit)

**ORAL LD<sub>50</sub>:** 9370 mg/kg (rat)

**INHALATION LC<sub>50</sub>:** 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**

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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

**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



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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

##### 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

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)

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### 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.

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

### 16. OTHER INFORMATION

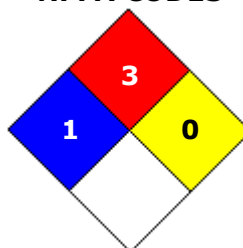
**APPROVED BY:** Pierce A. Pillon     **TITLE:** Chemist

**REVISION SUMMARY:** This MSDS replaces the 07/14/2009 MSDS.

#### HMIS RATING

HEALTH	<input type="checkbox"/>	1
FLAMMABILITY	<input type="checkbox"/>	3
PHYSICAL HAZARD	<input type="checkbox"/>	1
PERSONAL PROTECTION	<input type="checkbox"/>	

#### NFPA CODES



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