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

MATERIAL SAFETY DATA SHEET

Date Issued: 04/08/2008
MSDS No: 2108-12S
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Revision No: 3

Turbo-Coat Acrylic Coating

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

MATERIAL SAFETY DATA SHEET

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

OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200)							
		EXPOSURE LIMITS					
		OSHA PEL		ACGIH TLV		SupplierOEL	
Chemical Name		**ppm**	**mg/m³**	**ppm**	**mg/m³**	**ppm**	**mg/m³**
n-Propyl acetate	**TWA**		200 ppm		200 ppm		
	STEL		250 ppm		250 ppm		
n-Heptane	**TWA**	400 ppm	1600 mg/m3	400 ppm			
	STEL	500 ppm	2000 mg/m3	500 ppm			
Acetone	**TWA**	750 ppm [1]	1800 mg/m3 [1]	750 ppm	1780 mg/m3	NL ppm	NL mg/m3
	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.

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

MATERIAL SAFETY DATA SHEET

Date Issued: 04/08/2008
MSDS No: 2108-12S
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Revision No: 3

Turbo-Coat Acrylic Coating

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 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 LD_{50}: > 20 mg/kg (rabbit)
ORAL LD_{50}: 9370 mg/kg (rat)
INHALATION LC_{50}: 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

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

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

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

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 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 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

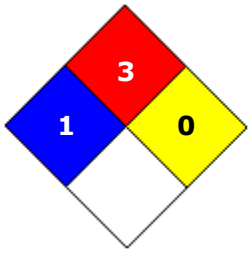
APPROVED BY: Pierce A. Pillon **TITLE:** Chemist

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

HMIS RATING

HEALTH	1
FLAMMABILITY	3
PHYSICAL HAZARD	1
PERSONAL PROTECTION	

NFPA CODES



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