

MATERIAL SAFETY DATA SHEET



Date Issued: 04/08/2008
 MSDS No: 2108-G/5G
 Date Revised: 11/13/2008
 Revision No: 1

Turbo-Coat Acrylic Coating

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Turbo-Coat Acrylic Coating
PRODUCT DESCRIPTION: Acrylic conformal coating - bulk
PRODUCT CODE: 2108-G/5G
ACTIVE INGREDIENT(S): 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)	15 - 20		
n-Propyl acetate	50 - 55	109-60-4	2036861
Acetone	15 - 20	67-64-1	200-662-2
n-Heptane	10 - 15	142-82-5	
1-(2-Methoxy-Methyl-Ethoxy)-2-Propanol Acetate	< 1	88917-22-0	

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: 1.7°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.

ENVIRONMENTAL PRECAUTIONS

WATER SPILL: NEVER FLUSH TO SEWER.

GENERAL PROCEDURES: Forms smooth, slippery surfaces on floors, posing an accident risk. Wear a

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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.

ELECTROSTATIC ACCUMULATION HAZARD: Static electricity will accumulate and may ignite vapors. Prevent a possible fire hazard by bonding and grounding or use an inert gas purge.

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		
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
n-Heptane	TWA	400 ppm	1600 mg/m ³	400 ppm			
	STEL	500 ppm	2000 mg/m ³	500 ppm			
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: Gloves of the following materials may provide protection against permeation:
 Viton, solvex, Buna, Butyl, and Neoprene.

RESPIRATORY: A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2

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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

PHYSICAL STATE: Liquid

ODOR: Characteristic odor.

APPEARANCE: Clear, Colorless liquid

PERCENT VOLATILE: 82.8 at 25°C (77°F)

VAPOR PRESSURE: 24.78 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: 1.7°C (35°F) TAG CC

SOLUBILITY IN WATER: Negligible

DENSITY: 0.845 - 0.875 at 25°C (68°F)

VISCOSITY #1: 15 to 25 Centipoise at 25°C (68°F)

(VOC): 63.780 % by weight

10. STABILITY AND REACTIVITY

STABILITY: Stable.

POLYMERIZATION: Will not occur.

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

HAZARDOUS DECOMPOSITION PRODUCTS: Hazardous decomposition products include oxides of carbon, sulfur, and nitrogen.

INCOMPATIBLE MATERIALS: Metals. Acidic conditions. Oxidizing materials.

11. TOXICOLOGICAL INFORMATION

ACUTE

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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

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

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: Coating Solution

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PRIMARY HAZARD CLASS/DIVISION: 3

UN/NA NUMBER: 1139

PACKING GROUP: II

REPORTABLE QUANTITY (RQ) UNDER CERCLA: 5000 lbs.

OTHER SHIPPING INFORMATION: RQ refers to acetone (67-64-1) content.

ROAD AND RAIL (ADR/RID)

PROPER SHIPPING NAME: Coating Solution

HAZARD CLASS: 3

PACKING GROUP: II

AIR (ICAO/IATA)

SHIPPING NAME: Coating Solution

UN/NA NUMBER: 1139

PRIMARY HAZARD CLASS/DIVISION: 3

PACKING GROUP: II

SPECIAL PROVISIONS: Passenger aircraft - 1 liter
 Cargo aircraft - 30 liters

VESSEL (IMO/IMDG)

SHIPPING NAME: Coating Solution

UN/NA NUMBER: 1139

PRIMARY HAZARD CLASS/DIVISION: 3.2

PACKING GROUP: II

SPECIAL PROVISIONS: Cargo - on deck or under deck

Passenger - on deck or under deck when carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length. On deck only when passenger number above is exceeded.

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	15 - 20	67-64-1

CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)

CERCLA REGULATORY: Acetone (67-64-1)

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Chemical Name	Wt. %	CERCLA RQ
Acetone	15 - 20	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

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

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 B2 - Flammable Liquids. Class D2B - Toxic Materials.

EUROPEAN COMMUNITY

EEC LABEL SYMBOL AND CLASSIFICATION



"F" - Highly flammable
 R11 - Highly flammable.

16. OTHER INFORMATION

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

REVISION SUMMARY: Revision #: 1. This MSDS replaces the April 08, 2008 MSDS. Any changes in information are as follows: In Section 9: Percent Volatile °F

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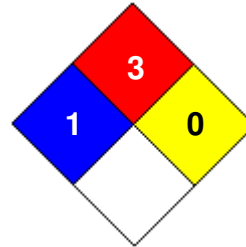
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HMIS RATING

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

NFPA CODES



DATA SOURCES: Code of Federal Regulations (CFR) The Sigma-Aldrich Library of Regulatory and Safety Data OSHA Hazard Communication Standard (29CFR1910.1200) Various Federal, State and Local Regulations

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