

# MATERIAL SAFETY DATA SHEET



Date Issued: 12/21/2010  
MSDS No: 2109-Bulk

## Turbo-Coat HV

### 1. PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** Turbo-Coat HV  
**PRODUCT DESCRIPTION:** Acrylic conformal coating  
**PRODUCT CODE:** 2109-P,G,5G

#### 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 CCN#21858 (US Transportation) :**(800) 424 - 9300  
**CANUTEC (Canadian Transportation) :**(613) 996 - 6666  
**Emergency Phone :**(800) 858 - 4043

### 2. 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:** Headache, nausea, and possible coordination problems. High concentrations in immediate area can displace oxygen and can cause dizziness, unconsciousness, and possibly death with longer exposure. Keep people away from such vapors without self-contained breathing apparatus.

#### 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
tert-Butyl acetate	50 - 70	540-88-5	208-760-7
n-Butyl acetate	1 - 5	123-86-4	
1-Methoxy-2-propanol	1 - 5	107-98-2	203-539-1
1-(2-Methoxy-Methyl-Ethoxy)-2-Propanol Acetate	< 2	88917-22-0	
Acrylic Polymer (non-hazardous)	15 - 25		

### 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:** 5°C (41°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 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

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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	
Chemical Name		ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
tert-Butyl acetate	TWA	200 ppm	950 mg/m <sup>3</sup>	200 ppm	
n-Butyl acetate	STEL	200 ppm		200 ppm	
1-Methoxy-2-propanol	TWA	100 ppm		100 ppm	
	STEL	150 ppm		150 ppm	

**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 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	Flash Point (°C)	Boiling Point (°C)	Freezing Point (°C)	Solubility in Water	Specific Gravity
1-Methoxy-2-propanol	33	118.5 @ 760 mmHg	-97	SOLUBLE	0.922

**PHYSICAL STATE:** Liquid

**ODOR:** Sweet ester odor.

**APPEARANCE:** Clear, Colorless liquid

**pH:** Not Applicable

**PERCENT VOLATILE:** 75.5 at 25°C (68°F)

**VAPOR PRESSURE:** 1.12 mmHg@20C (VOC Composite Vapor Pressure)

**VAPOR DENSITY:** > 1 (Air=1)

**BOILING POINT:** Not Determined

**FLASHPOINT AND METHOD:** 5°C (41°F) TAG CC

**SOLUBILITY IN WATER:** Negligible

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

**DENSITY:** ~ 0.91 at 25°C (68°F)

**VISCOSITY #1:** 53 to 60 Centipoise at 25°C (68°F)

**(VOC):** 7.200 % by weight

### 10. STABILITY AND REACTIVITY

**STABILITY:** Stable.

**POLYMERIZATION:** Will not occur.

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

**HAZARDOUS DECOMPOSITION PRODUCTS:** Oxides of Carbon (CO and CO<sub>2</sub>) may form when heated to decomposition.

**INCOMPATIBLE MATERIALS:** Strong acids and alkalis, reactive metals and strong oxidizing agents.

### 11. TOXICOLOGICAL INFORMATION

**ACUTE**

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Chemical Name	ORAL LD <sub>50</sub> (rat)	DERMAL LD <sub>50</sub> (rabbit)	INHALATION LC <sub>50</sub> (rat)
tert-Butyl acetate	4500 mg/kg	> 2000 mg/kg	> 4000 ppm
1-Methoxy-2-propanol	5700 mg/kg	13 g/kg	10000 ppm

**DERMAL LD<sub>50</sub>:** > 2000 mg/kg (rabbit)

**ORAL LD<sub>50</sub>:** > 4500 mg/kg (rat)

**INHALATION LC<sub>50</sub>:** > 4000 ppm, 6 hours, rat

**EYE EFFECTS:** Mixture is a moderate eye irritant.

**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
1-Methoxy-2-propanol	NOT LISTED	NOT LISTED	NOT LISTED

**IARC:** NOT listed

**NTP:** NOT listed

**OSHA:** NOT listed

## 12. ECOLOGICAL INFORMATION

**ENVIRONMENTAL DATA:** There is limited information available on the environmental fate and effects of this material. The primary environmental concern for release is the impact on aquatic and terrestrial species. Due care should be taken to avoid the accidental release of this material into the environment.

## 13. DISPOSAL CONSIDERATIONS

**DISPOSAL METHOD:** Federal, State, and Local laws governing disposal of materials can differ. Ensure compliance with proper authorities before disposal.

**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

**PRIMARY HAZARD CLASS/DIVISION:** 3

**UN/NA NUMBER:** 1139

**PACKING GROUP:** NA

**REPORTABLE QUANTITY (RQ) UNDER CERCLA:** 5000 lbs.

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**OTHER SHIPPING INFORMATION:** When Shipping in pints, classify as consumer commodity

### 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

### 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	Comments
tert-Butyl acetate	50 - 70	540-88-5	1.0% Reporting Threshold

#### CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)

**CERCLA REGULATORY:** n-butyl acetate (123-86-4), Tert-butyl acetate (540-88-5)

Chemical Name	Wt.%	CERCLA RQ
tert-Butyl acetate	50 - 70	5000 lbs.

**CERCLA RQ:** 5000 lbs

**REPORTABLE SPILL QUANTITY:** 5000 lbs.

#### TSCA (TOXIC SUBSTANCE CONTROL ACT)

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Chemical Name	CAS
tert-Butyl acetate	540-88-5
1-Methoxy-2-propanol	107-98-2

**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.

**OSHA HAZARD COMM. RULE:** Contents of this MSDS comply with the OSHA Hazard Communication Standard 29 CFR 1910.1200.

**CLEAN WATER ACT:** Tert-butyl acetate (540-88-5)

### 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.

### 16. OTHER INFORMATION

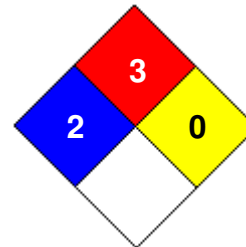
**APPROVED BY:** Pierce A. Pillon    **TITLE:** Chemist

**REVISION SUMMARY:** New MSDS

#### HMIS RATING

<b>HEALTH:</b>	<b>2</b>
<b>FLAMMABILITY:</b>	<b>3</b>
<b>PHYSICAL HAZARD:</b>	<b>0</b>
<b>PERSONAL PROTECTION:</b>	

#### 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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