



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



MATERIAL SAFETY DATA SHEET

Date Issued: 12/21/2010

MSDS No: 2109-Bulk

Turbo-Coat HV

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

MATERIAL SAFETY DATA SHEET



Date Issued: 12/21/2010

MSDS No: 2109-Bulk

Turbo-Coat HV

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 ³	ppm	mg/m ³
tert-Butyl acetate	TWA	200 ppm	950 mg/m ³	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



MATERIAL SAFETY DATA SHEET

Date Issued: 12/21/2010

MSDS No: 2109-Bulk

Turbo-Coat HV

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 CO₂) may form when heated to decomposition.**INCOMPATIBLE MATERIALS:** Strong acids and alkalis, reactive metals and strong oxidizing agents.

11. TOXICOLOGICAL INFORMATION

ACUTE

MATERIAL SAFETY DATA SHEET



Date Issued: 12/21/2010

MSDS No: 2109-Bulk

Turbo-Coat HV

Chemical Name	ORAL LD ₅₀ (rat)	DERMAL LD ₅₀ (rabbit)	INHALATION LC ₅₀ (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 LD₅₀: > 2000 mg/kg (rabbit)**ORAL LD₅₀:** > 4500 mg/kg (rat)**INHALATION LC₅₀:** > 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.



MATERIAL SAFETY DATA SHEET

Date Issued: 12/21/2010

MSDS No: 2109-Bulk

Turbo-Coat HV

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)



MATERIAL SAFETY DATA SHEET

Date Issued: 12/21/2010

MSDS No: 2109-Bulk

Turbo-Coat HV

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

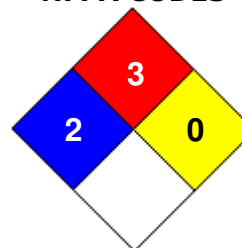
APPROVED BY: Pierce A. Pillon **TITLE:** Chemist

REVISION SUMMARY: New MSDS

HMIS RATING

HEALTH:	2
FLAMMABILITY:	3
PHYSICAL HAZARD:	0
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

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