



SDS

SAFETY DATA SHEET





Product Name: (as shown on label)	TMJ-850-LSY
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May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910200(g). Standards must be consulted for specific requirements.

Section I - Identification

Part #:	TMJ-850-LSY	Manufacturer:	AZ Technology Inc.
Spec/Rev #:	AZ PRSPEC TMJ-850-LSY	Address:	180 West Park Loop NW Huntsville AL, 35806
Usage:	Organic silicone Yellow nonspecular marker coating	Company Ph.# :	(256) 837-9877
		Emergency #:	(256) 837-9877

Section II - Hazard Identification

Classification of the substance or mixture:	Notice: All following Hazard Statements refer to a nearly negligible percentage of the total coating				
	H302	Acute toxicity, Oral (category 4).			
	H332	Acute toxicity, Inhalation (category 4).			
	H315	Skin irritation (category 2).			
	H319	Eye irritation (category 2A).			
	H401	Acute aquatic toxicity (category 2).			
	H411	Chronic aquatic toxicity (category 2).			
Hazard statements:	Flammable liquid and vapor	May cause respiratory irritation	Causes skin irritation	Causes serious eye irritation	Toxic to aquatic life with long lasting effects
Signal Word:	Danger				
Pictograms:					
Precautionary Statements:	P261	Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.			
	P264	Wash skin thoroughly after handling.			
	P270	Do not eat, drink, or smoke when using this product.			
	P271	Use only outdoors or in a well-ventilated area.			
	P273	Avoid release to the environment.			
	P280	Wear protective gloves/ eye protection/ face protection.			
	P332+P313	If skin irritation occurs get medical advice/ attention.			
	P337+P313	If eye irritation persists get medical advice/ attention.			
	P362	Take off contaminated clothing and wash before reuse.			
	P391	Collect spillage.			

P501	Dispose of contents/ container to an approved waste disposal plant.
Notice: All following Precautionary Statements refer to a nearly negligible percentage of the total coating	
P301+P312+P330	If SWALLOWED call poison center/ doctor/ physician if you feel unwell.
P302+P352	If ON SKIN wash with plenty of soap and water.
P304+P340+P312	If INHALED remove person to fresh air and keep at rest in a position comfortable for breathing. Call a poison center/ doctor/ physician if you feel unwell.
P305+P351+P338	If IN EYES rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.

Section III - Composition/Information on Ingredients

Common Name	Bismuth Vanadate	Silicone Resin	Toluene	n-Butyl acetate	Ethyl alcohol	Isobutyl alcohol	Xylene
Alt Names	Trade Name: PS OTH Nubivan Y-901 Substance Name: Pigment Yellow 184 C.I. 771740	--	--	--	--	--	Dimethylbenzene
CAS#	14059-33-7	9016-00-6	108-88-3	123-86-4	64-17-5	78-83-1	1330-20-7
OSHA PEL	15 mg/m ³	None establ.	(Vacated) TWA: 100ppm (Vacated)TWA: 375mg/m ³ Ceiling: 300ppm (Vacated) STEL: 150ppm (Vacated)STEL: 560mg/m ³ TWA: 200ppm	(Vacated) TWA: 150ppm (Vacated)TWA: 720mg/m ³ Ceiling: 200ppm (Vacated) STEL: 950ppm (Vacated)STEL: 710mg/m ³ TWA: 150ppm	(Vacated) TWA: 1000ppm (Vacated)TWA: 1900mg/m ³ TWA: 200ppm TWA: 1900mg/m ³	(Vacated) TWA: 50ppm (Vacated) TWA: 150mg/m ³ TWA: 100ppm TWA: 300mg/m ³	(Vacated) TWA: 100ppm (Vacated)TWA: 435mg/m ³ (Vacated) STEL: 150ppm (Vacated)STEL: 655mg/m ³ TWA: 100ppm TWA: 435mg/m ³
ACGIH TLV	10 mg/m ³	None establ.	TWA: 20 ppm	TWA: 50 ppm STEL: 150 ppm	STEL: 1000 ppm	TWA: 50 ppm	TWA: 100 ppm STEL: 150 ppm
NIOSH IDLH	10mg/m ³	N/A	IDLH: 500 ppm TWA: 100 ppm TWA 375 mg/m ³ STEL: 150 ppm STEL: 560 mg/m ³	IDLH: 1700 ppm TWA: 150 ppm TWA 710 mg/m ³ STEL: 200 ppm STEL: 950 mg/m ³	IDLH: 3300 ppm TWA: 1000 ppm TWA:1900 mg/m ³	IDLH: 1600 ppm TWA: 50 ppm TWA:150 mg/m ³	NIOSH REL: 100ppm (435 mg/m ³) TWA 150 ppm (655 mg/m ³) TWA A4 BEI®

AZ Technology reserves all rights to mix percentages and methods, withheld as trade secrets.

Section IV - First-Aid Measures

Inhalation:	Remove to fresh air. Obtain medical attention.
Skin Irritation:	Wash skin with soap and water. Obtain medical attention if irritation persists.
Eye Contact:	Immediately flush eyes for 15 minutes with copious amounts of water, occasionally lifting upper and lower lids. Obtain medical attention.
Ingestion:	Consult physician; gastric lavage may be necessary.
Important symptoms or effects including acute or delayed :	Prolonged or repeated exposure may aggravate pre-existing skin, central nervous system, liver, kidney, and/or intestinal tract conditions. Symptoms include: depression, drowsiness, impaired vision, ataxia, and stupor.
Treatment Recommendations (if applicable):	Consult a physician in all cases.

Section V - Fire-Fighting Measures

Suitable Extinguishing Media	Foam, dry chemical, CO ₂
Unsuitable Extinguishing Media	Water may be ineffective, DO not use water jet.
Flash Point Method	24°C
Specific Hazards Arising from the Chemical	This material is a flammable liquid and a dangerous fire hazard when exposed to heat, flame, and oxidizers.
Hazardous Decomposition or Byproducts	Oxides of carbon and nitrogen, methyl alcohol.
Protective Equipment and Precautions for Firefighters	Wear positive self-contained breathing apparatus in conjunction with appropriate personal protective equipment.

Section VI - Accidental Release Measures

Preventive precautionary measures	Use personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition. Take precautionary measures against static discharges.
Emergency procedures (i.e. evac, consulting experts)	Wear self-contained breathing apparatus pressure-demand NIOSH/MSHA (approved or equivalent) and full protective gear.
Environmental Precautions	Should not be released into environment. Do not flush into surface water or sanitary sewer system.
Containment and Cleanup procedures	Clean up spilled material into a closed container, following all OSHA, EPA, and Federal rules, regulations and laws. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.

Section VII - Handling and Storage

Safe handling precautions	Prevent inhalation of vapors. Wear NIOSH/MSHA approved respiratory protection equipment for organic vapors.
Safe storage recommendations (including incompatibilities)	Store below 5°F in dry location away from oxidizing agents and combustible materials. Eliminate ignition sources.

Section VIII - Exposure Controls/Personal Protection

See Section III chart for: OSHA Permissible Exposure Limits (PELs), American Conference of Governmental Industrial Hygienists (ACGIH), Threshold Limit Values (TLVs), other limits and/or recommendations

Ventilation and/or enclosure recommendations	Use with adequate ventilation. Local exhaust recommended. Safety shower and eye bath should be within direct access.
PPE recommended	Protective gloves, long sleeved clothing, rubber boots. Handle in accordance with good personal hygiene and safety practice.
PPE requirement	Use NIOSH/MSHA approved cartridge (organic vapor) HEPA type respirator, splash proof goggles.

Section IX - Physical and Chemical Properties

Appearance	Yellow liquid	Flammability/Explosive Limits	LEL 1.4% UEL 19%
Odor	Strong Organic Solvent Odor	Odor Threshold	None Given
PH	None Given	Vapor Pressure	44
Melting Point	800°C	Vapor Density	2.6

Freezing Point	None Given	Relative Density	Solids 5-6 g/cm ³
Flash Point	24°C	Solubility	Trace in Water
Boiling Point	78.3°C	Evaporation rate	None Given
Viscosity	None Given	Flammability (solid, gas)	Gas
Decomposition temp	None Given	Partition Coefficient: n-octanol/water	None Given

Section X - Stability and Reactivity

Reactivity (suggested by test data)	No data available
Conditions that should be avoided (Incompatible)	Oxidizing agents, nitric and sulfuric acids (can be explosive). Sources of ignition.
Stability	Stable under normal conditions
Polymerize thresholds	80°F for 12 to 24 hr.

Section XI - Toxicological Information

	Product/ingredient name						
	Bismuth Vanadate	Silicone Resin	Toluene	n-Butyl acetate	Ethyl alcohol	Isobutyl alcohol	Xylene
Acute Toxicity							
Oral LD50: Rat	> 5,000 mg/kg	> 5,000 mg/kg	>5,000 mg/kg	10768 mg/kg	3450 mg/kg	2460 mg/kg	3500 mg/kg
Inhalation LC50: Rat	>5,1 mg/l exposure time: 4 hr	>40 mg/l	26700 ppm 1 h	390 ppm 4 h	20000 ppm 10 h	> 6.5 mg/L 4 h	29.08 mg/L
Dermal LD50: Rabbit	Not Available	> 5,000 mg/kg	12000 mg/kg	>17600 mg/kg	Not listed	3400 mg/kg	4350 mg/kg 1700 mg/kg
Chronic Toxicity:	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available
Corrosion Irritation:	May cause eye and skin irritation.	Causes skin and eye irritation.	Irritating to eyes, respiratory system and skin	Not Available	Severe eye irritant	Severe eye irritant. Irritating to respiratory system and skin.	Irritating to eyes, respiratory system, and skin.
Sensitization:	Not Classified	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available
Single Target Organ (STOT):	Not Classified	May cause respiratory irritation. May cause damage to organs through prolonged or repeated exposure.	Not Available	Not Available	Not Available	Not Available	Not Available
Numerical Measures:	Not Classified	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available
Carcinogenicity:	Not Classified	Not Carcinogenic	Not Available	Not Available	IARC: Group 1 ACGIH: A3	Not Available	Not Available
Mutagenicity:	Not Classified	Not Mutagenic	Not Mutagenic	Not Available	Mutagenic effects have occurred in experimental animals	Not Available	Not Available
Reproductive Toxicity:	Not Classified	Suspected of damaging fertility or the unborn child.	Experiments have shown reproductive toxicity effects on laboratory animals	Not Available	Not Available	Not Available	Experiments have shown reproductive toxicity effects on laboratory animals.
Aspiration Hazard:	Not Classified	None	Not Available	Not Available	Not Available	Not Available	Not Available

Section XII - Ecological Information (non-mandatory)

	Product/ingredient name						
	Bismuth Vanadate	Silicone Resin	Toluene	n-Butyl acetate	Ethyl alcohol	Isobutyl alcohol	Xylene
12.1 Toxicity	LC50 (Fish): >10,000 mg/l Exposure time: 96 hr	LC50- Fish: 13.5 mg/l/96hr EC50- Crustaceans: 3.2 mg/l/48hr	The product contains following substances which are hazardous for the environment.	EC50: = 674.7 mg/L, 72h, Lepomis macrochirus: LC50: 100 mg/L/96 h, EC50: 70.0 mg/L 5 min	Toxic to aquatic organisms. This is hazardous for the environment.	LC50: 1120- 1520 mg/L 96h. EC50= 1224.6 mg/L 15 min	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
12.2 Persistence and degradability	The products of degradation are less toxic than the product itself.	This material is readily biodegradable.	Soluble in water Persistence is unlikely based on information available.	Persistence is unlikely based on information available.	Persistence is unlikely based on information available.	Soluble in water Persistence is unlikely based on information available.	Persistence is unlikely
12.3 Bio accumulative potential	Not Available	LogPow: 3.12-3.2 BcF: 5.4-25.9	Not Available	Not Available	Not Available	Not Available	Not Available
12.4 Mobility in soil	Not Available	Not Available	Log Pow: 2.7	Log Pow: 2.3	Log Pow: -0.32	Log Pow: 0.79	Log Pow: 3.15
12.5 Results of PBT and vPvB assessment	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available
12.6 Other adverse effects	Not Available	Not Available	Not Available	Do not empty into drains.	Not Available	Do not empty into drains.	None

Section XIII - Disposal Considerations (non-mandatory)**Recommendations for:**

Disposal Container(s)	None
Disposal Method	Dispose of in accordance to local, state, and federal regulations.
Sewage Disposal	Avoid dispersal of spilled materials and runoff and contact with soil, waterways, drains, and sewers.

Section XIV - Transport Information (non-mandatory)

UN#	UN 1263
UN Proper Shipping Name	Paint Related Material
Transport Hazard Class	3
Packing Group Number (if applicable, based on the degree of)	Y344
Environmental hazards (marine pollutant? International Maritime Dangerous Goods Code (IMDG))	Yes
Guidance on Bulk Transport	Passenger and Cargo Aircraft

Section XV - Regulatory Information (non-mandatory)

It is the responsibility of each company to comply to proper regional regulations.

Section XVI - SDS History

<u>Line #</u>	<u>Date</u>	<u>Revision</u>	<u>Comments</u>
1	1/11/2018	Created	SDS