



# SDS

## SAFETY DATA SHEET





<b>Product Name:</b> (as shown on label)	TMJ-20-LSB
---	------------

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

<b>Part #:</b>	TMJ-20-LSB	<b>Manufacturer:</b>	AZ Technology Inc.
<b>Spec/Rev #:</b>	AZ PRSPEC TMJ-20-LSB	<b>Address:</b>	180 West Park Loop NW Huntsville AL, 35806
<b>Usage:</b>	Organic silicone Black nonspecular marker coating	<b>Company Ph.# :</b>	(256) 837-9877
		<b>Emergency #:</b>	(256) 837-9877

### Section II - Hazard Identification

<b>Classification of the substance or mixture:</b>	<b>Notice:</b> All following Hazard Statements only apply to liquids within the 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).			
<b>Hazard statements:</b>	Flammable liquid and vapor	May cause respiratory irritation	Causes skin irritation	Causes serious eye irritation	Toxic to aquatic life with long lasting effects
<b>Signal Word:</b>	<b>Danger</b>				
<b>Pictograms:</b>					
<b>Precautionary Statements:</b>	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.
<b>Notice:</b> All following Precautionary Statements refer to liquids within the coating	
P301+P312+P330	If <b>SWALLOWED</b> call poison center/ doctor/ physician if you feel unwell.
P302+P352	If <b>ON SKIN</b> wash with plenty of soap and water.
P304+P340+P312	If <b>INHALED</b> 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 <b>IN EYES</b> 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	Silicone Oxycarbide	Silicone Resin	Toluene	n-Butyl acetate	Ethyl alcohol	Isobutyl alcohol	Xylene
Alt Names	--	--	--	--	--	--	Dimethylbenzene
CAS#	67763-03-5	9016-00-6	108-88-3	123-86-4	64-17-5	78-83-1	1330-20-7
OSHA PEL	None establ.	None establ.	(Vacated) TWA: 100ppm (Vacated)TWA: 375mg/m <sup>3</sup> Ceiling: 300ppm (Vacated) STEL: 150ppm (Vacated)STEL: 560mg/m <sup>3</sup> TWA: 200ppm	(Vacated) TWA: 150ppm (Vacated)TWA: 720mg/m <sup>3</sup> Ceiling: 200ppm (Vacated) STEL: 950ppm (Vacated)STEL: 710mg/m <sup>3</sup> TWA: 150ppm	(Vacated) TWA: 1000ppm (Vacated)TWA: 1900mg/m <sup>3</sup> TWA: 200ppm TWA: 1900mg/m <sup>3</sup>	(Vacated) TWA: 50ppm (Vacated) TWA: 150mg/m <sup>3</sup> TWA: 100ppm TWA: 300mg/m <sup>3</sup>	(Vacated) TWA: 100ppm (Vacated)TWA: 435mg/m <sup>3</sup> (Vacated) STEL: 150ppm (Vacated)STEL: 655mg/m <sup>3</sup> TWA: 100ppm TWA: 435mg/m <sup>3</sup>
ACGIH TLV	None establ.	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	None establ.	N/A	IDLH: 500 ppm TWA: 100 ppm TWA 375 mg/m <sup>3</sup> STEL: 150 ppm STEL: 560 mg/m <sup>3</sup>	IDLH: 1700 ppm TWA: 150 ppm TWA 710 mg/m <sup>3</sup> STEL: 200 ppm STEL: 950 mg/m <sup>3</sup>	IDLH: 3300 ppm TWA: 1000 ppm TWA:1900 mg/m <sup>3</sup>	IDLH: 1600 ppm TWA: 50 ppm TWA:150 mg/m <sup>3</sup>	NIOSH REL: 100ppm (435 mg/m <sup>3</sup> ) TWA 150 ppm (655 mg/m <sup>3</sup> ) TWA A4 BEI®

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

### Section IV - First-Aid Measures

<b>Inhalation:</b>	Remove to fresh air. Obtain medical attention.
<b>Skin Irritation:</b>	Wash skin with soap and water. Obtain medical attention if irritation persists.
<b>Eye Contact:</b>	Immediately flush eyes for 15 minutes with copious amounts of water, occasionally lifting upper and lower lids. Obtain medical attention.
<b>Ingestion:</b>	Consult physician; gastric lavage may be necessary.
<b>Important symptoms or effects including acute or delayed :</b>	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.
<b>Treatment Recommendations (if applicable):</b>	Consult a physician in all cases.

## Section V - Fire-Fighting Measures

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

## Section VI - Accidental Release Measures

<b>Preventive precautionary measures</b>	Use personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition. Take precautionary measures against static discharges.
<b>Emergency procedures (i.e. evac, consulting experts)</b>	Wear self-contained breathing apparatus pressure-demand NIOSH/MSHA (approved or equivalent) and full protective gear.
<b>Environmental Precautions</b>	Should not be released into environment. Do not flush into surface water or sanitary sewer system.
<b>Containment and Cleanup procedures</b>	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

<b>Safe handling precautions</b>	Prevent inhalation of vapors. Wear NIOSH/MSHA approved respiratory protection equipment for organic vapors.
<b>Safe storage recommendations (including incompatibilities)</b>	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

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

## Section IX - Physical and Chemical Properties

<b>Appearance</b>	Black liquid	<b>Flammability/Explosive Limits</b>	LEL 1.4% UEL 19%
<b>Odor</b>	Strong Organic Solvent Odor	<b>Odor Threshold</b>	None Given
<b>PH</b>	None Given	<b>Vapor Pressure</b>	None Given
<b>Melting Point</b>	None Given	<b>Vapor Density</b>	None Given
<b>Freezing Point</b>	None Given	<b>Relative Density</b>	None Given
<b>Flash Point</b>	24°C	<b>Solubility</b>	Trace in Water

<b>Boiling Point</b>	78.3°C	<b>Evaporation rate</b>	None Given
<b>Viscosity</b>	None Given	<b>Flammability (solid, gas)</b>	Gas
<b>Decomposition temp</b>	None Given	<b>Partition Coefficient: n-octanol/water</b>	None Given

## Section X - Stability and Reactivity

<b>Reactivity (suggested by test data)</b>	No data available
<b>Conditions that should be avoided (Incompatible)</b>	Solvents may be interactive with other solvents, avoid mixing with none conforming liquids
<b>Stability</b>	Stable under normal conditions
<b>Polymerize thresholds</b>	80°F for 12 to 24 hr.

## Section XI - Toxicological Information

	Product/ingredient name						
	Silicone Oxycarbide	Silicone Resin	Toluene	n-Butyl acetate	Ethyl alcohol	Isobutyl alcohol	Xylene
<b>Acute Toxicity</b>							
<b>Oral LD50: Rat</b>	Not Avail.	> 5,000 mg/kg	>5,000 mg/kg	10768 mg/kg	3450 mg/kg	2460 mg/kg	3500 mg/kg
<b>Inhalation LC50: Rat</b>	Not Avail.	>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
<b>Dermal LD50: Rabbit</b>	Not Avail.	> 5,000 mg/kg	12000 mg/kg	>17600 mg/kg	Not listed	3400 mg/kg	4350 mg/kg 1700 mg/kg
<b>Chronic Toxicity:</b>	Repeated and prolonged exposure may be harmful	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available
<b>Corrosion Irritation:</b>	May causes skin and eye 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.
<b>Sensitization:</b>	Not Avail.	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available
<b>Single Target Organ (STOT):</b>	Not Avail.	May cause respiratory irritation. May cause damage to organs through prolonged or repeated exposure.	Not Available	Not Available	Not Available	Not Available	Not Available
<b>Numerical Measures:</b>	Not Avail.	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available
<b>Carcinogenicity:</b>	Not Carcinogenic	Not Carcinogenic	Not Available	Not Available	IARC: Group 1 ACGIH: A3	Not Available	Not Available
<b>Mutagenicity:</b>	Not Avail.	Not Mutagenic	Not Mutagenic	Not Available	Mutagenic effects have occurred in experimental animals	Not Available	Not Available
<b>Reproductive Toxicity:</b>	Not Avail.	Suspected of damaging fertility or the unborn child.	Experiemnts have shown reproductive toxicity effects on laboratory animals	Not Available	Not Available	Not Available	Experiments have shown reproductive toxicity effects on laboratory animals.
<b>Aspiration Hazard:</b>	Not Avail.	None	Not Available	Not Available	Not Available	Not Available	Not Available

**Section XII - Ecological Information (non-mandatory)**

	Product/ingredient name						
	Silicone Oxycarbide	Silicone Resin	Toluene	n-Butyl acetate	Ethyl alcohol	Isobutyl alcohol	Xylene
<b>12.1 Toxicity</b>	Not Avail.	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.
<b>12.2 Persistence and degradability</b>	Not Avail.	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
<b>12.3 Bio accumulative potential</b>	Not Avail.	LogPow: 3.12-3.2 BcF: 5.4-25.9	Not Available	Not Available	Not Available	Not Available	Not Available
<b>12.4 Mobility in soil</b>	Not Avail.	Not Available	Log Pow: 2.7	Log Pow: 2.3	Log Pow: -0.32	Log Pow: 0.79	Log Pow: 3.15
<b>12.5 Results of PBT and vPvB assessment</b>	Not Avail.	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available
<b>12.6 Other adverse effects</b>	Not Avail.	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:**

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

**Section XIV - Transport Information (non-mandatory)**

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