



# SDS

## SAFETY DATA SHEET

<b>Product Name:</b> (as shown on label)	AZ-2000-IECW
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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 #:	AZ-2000-IECW	Manufacturer:	AZ Technology Inc.
Spec/Rev #:	CPS-C-025 Rev. B	Address:	180 West Park Loop NW Huntsville AL, 35806
Usage:	White Inorganic Electrically Dissipative Thermal Control Coating	Company Ph.# :	(256) 837-9877
		Emergency #:	(256) 837-9877

### Section II - Hazard Identification

<b>Hazard statement and classification</b>	<b>Notice:</b> 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).	
<b>Signal Word</b>	<b>Caution:</b> Irritant (eye and skin).		
<b>Pictograms</b>			
<b>Safety Phrases</b>	S26	Contact with eyes: rinse immediately with plenty of water and seek medical advice	
<b>Precautionary Statements</b>	P261	Avoid breathing dust/ fume/ gas/ mist/ vapours/ 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 a nearly negligible percentage of the total 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. If <b>IN EYES</b> rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
P305+P351+P338	

### Section III - Composition/Information on Ingredients

Common Name	CAS#	OSHA PEL	ACGIH TLV	Other Limits Recommended
Tin Oxide	18282-10-5	2mg/m <sup>3</sup>	2 mg/m <sup>3</sup>	0.05 mg/m <sup>3</sup> (NIOSH)
Antimony(III) Acetate	6923-52-0	0.5 mg/m <sup>3</sup>	0.5 mg/m <sup>3</sup>	0.05 mg/m <sup>3</sup> (NIOSH)
Potassium Silicate	1312-76-1	n/a	n/a	5 mg/m <sup>3</sup> (per PQ Corp.)
Distilled Water	n/a	n/a	n/a	

AZ Technology reserves all rights to mix percentages and methods withheld as a trade secret.

### Section IV - First-Aid Measures

<b>Inhalation:</b>	If inhaled, remove to fresh air and give oxygen if difficulty breathing.
<b>Skin Irritation:</b>	Wash skin with soap and water.
<b>Eye Contact:</b>	Flush eyes with copious amounts of water.
<b>Ingestion:</b>	If swallowed, wash conscious victims mouth out with water
<b>Important symptoms or effects including acute or delayed :</b>	Burning pain in nose and throat; pain, redness and tearing of eyes; itching and localized burning sensation on skin; ingestion produces vomiting due to gastric irritation. Medical Conditions: Asthma, lung, and skin diseases.
<b>Treatment Recommendations:</b>	Consult a physician in all cases.

### Section V - Fire-Fighting Measures

<b>Extinguishing recommendations</b>	Water or other
<b>Combustion/Flashpoint Information</b>	Non-combustible
<b>Equipment recommendations</b>	n/a

### Section VI - Accidental Release Measures

<b>Preventive precautionary measures</b>	Wear respirator, safety goggles, rubber boots, and gloves.
<b>Emergency procedures (i.e. evac, consulting experts)</b>	none
<b>Containment procedures</b>	none
<b>Cleanup Procedures</b>	For solids, sweep up and place in bag. Hold for waste disposal. For liquids use water or soap.

### Section VII - Handling and Storage

<b>Safe handling precautions</b>	Keep at ambient temperatures.
<b>Safe storage recommendations (including incompatibilities)</b>	Store at dry ambient conditions

### 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>	Wear appropriate NIOSH-approved respirator, safety goggles, gloves, and other protective clothing. Safety shower and eye bath should be within direct access. Do not breath dust. Avoid contact with eyes, skin and clothing. Avoid prolonged or repeated exposure. Use with adequate ventilation. Wash thoroughly after handling.
<b>PPE recommended</b>	Protective gloves, Barrier creams may help prevent skin irritation to hypersensitive people.

<b>PPE requirement</b>	Use NIOSH approved mist respirator where spray occurs. Use safety eyewear.
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### Section IX - Physical and Chemical Properties

<b>Appearance</b>	Viscous cream colored liquid	<b>Flammability/Explosive Limits</b>	n/a
<b>Odor</b>	Odorless	<b>Odor Threshold</b>	n/a
<b>PH</b>	Slightly Alkaline	<b>Vapor Pressure</b>	none given
<b>Melting Point</b>	none given	<b>Vapor Density</b>	none given
<b>Freezing Point</b>	0°C	<b>Relative Density</b>	none given
<b>Flash Point</b>	Non-Combustable	<b>Solubility</b>	Complete in Water
<b>Boiling Point</b>	~100°C	<b>Evaporation rate</b>	none given
<b>Viscosity</b>	none given	<b>Flammability (solid, gas)</b>	n/a
<b>Decomposition temp</b>	none given	<b>Partition Coefficient: n-octanol/water</b>	n/a

### Section X - Stability and Reactivity

<b>Reactivity (suggested by test data)</b>	No data Available
<b>Conditions that should be avoided</b>	Flammable hydrogen gas may be produced on prolonged contact with metals (i.e. Aluminum, Tin, Lead, or Zinc).
<b>Stable under ambient conditions</b>	Stable
<b>Polymerize thresholds</b>	Will Not Occur

### Section XI - Toxicological Information

<b>Acute Toxicity</b>	<b>Antimony(III) Acetate</b>	<b>Tin Oxide</b>	<b>Potassium Silicate</b>
<b>Oral LD50 (rat):</b>	4,480 mg/kg	no data available	> 5,000 mg/kg bw (rat)
<b>Inhalation LC50 (rat):</b>	no data available	no data available	> 2.06 g/m <sup>3</sup> (rat)
<b>Dermal LD50:</b>	>12,800 mg/kg (rabbit)	no data available	> 5,000mg/kg bw (rat)
<b>Chronic Toxicity:</b>	Prolonged skin contact may cause skin irritation and/or dermatitis	no data available	none given
<b>Corrosion Irritation:</b>	Skin/24hr- Severe irritation Eye/24hr- Moderate irritation	no data available	mist may cause irritation
<b>Sensitization:</b>	no data available	no data available	not sensitising
<b>Single Target Organ (STOT):</b>	no data available	no data available	not classified
<b>Numerical Measures:</b>	no data available	no data available	no data available
<b>Carcinogenicity:</b>	No components of this product present at levels greater than or equal to 0.1% is identified as: Probable, possible or confirmed human carcinogen by IARC; a carcinogen or potential carcinogen by ACGIH; a known or anticipated carcinogen by NTP; a carcinogen or potential carcinogen by OSHA		no structure alerts
<b>Mutagenicity:</b>	Germ cell-Hamster Embryo Morphological transformation	no data available	no evidence of genotoxicity
<b>Reproductive Toxicity:</b>	Not Available	no data available	no evidence of reproductive toxicity
<b>Aspiration Hazard:</b>	Not Available	no data available	not classified

<b>Additional Information:</b>	<b>Tin Oxide:</b> RTECS: XQ370000 Inorganic tin salts are poorly absorbed into the body. When parenterally administered tin salts are highly toxic. Tin oxide inhaled as a dust or fume leads to a benign pneumoconiosis with no sign of interference with pulmonary function. Deposited dust appears nodular with the particles being mostly extracellular. No necrosis, foreign-body giant-cell reaction, or collagen formation has been seen. Tin salts that have gained access to the blood stream are highly toxic and produce neurologic damage and paralysis. With most common tin salts, the toxicity profile is complicated by hydrolysis in body fluids producing unphysiologic pH values. The reported symptoms of hyperemia, vascular changes with bleeding in the central nervous system, liver, heart, and other organs may be due to tin itself or to the unphysiological pH changes. Ingestion produces vomiting due to the gastric irritation from the activity and astringency of tin compounds. Injection of inorganic tin salts produce diarrhea, muscle paralysis, and twitching.
	<b>Antimony(III) Acetate:</b> RTECS: not available cough, shortness of breath, headache, nausea, vomiting

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

	<b>Antimony(III) Acetate</b>	<b>Tin Oxide</b>	<b>Potassium Silicate</b>
<b>Toxicity</b>	no data available	no data available	LC50 - Leuciscus idus (fish) - >146 mg/l - 48 h EC50 - Daphnia magna - > 146 mg/l - 24 h
<b>Persistence and degradability</b>	no data available	no data available	Inorganic soluble silicates, upon dilution, rapidly depolymerise into molecular species indistinguishable from natural dissolved silica
<b>Bioaccumulative potential</b>	no data available	no data available	Inorganic. The substance has no potential for bioaccumulation
<b>Mobility in soil</b>	no data available	no data available	n/a
<b>Results of PBT and vPvB assesment</b>	not required	not required	not classified as PBT or vPvB
<b>Other adverse effects</b>	toxic to aquatic life with long lasting effects	no data available	The alkalinity of this material will have a local effect on ecosystems sensitive to changes in pH.

## Section XIII - Disposal Considerations (non-mandatory)

### Recommendations for:

<b>Disposal Container(s)</b>	none
<b>Disposal Method</b>	Solids; bury in landfill site approved for chemical and hazardous waste disposal. Liquids; neutralize with dilute acid and landfill solids per local, state, and federal regulations.
<b>Sewage Disposal</b>	Flush neutralized liquid to sewer with plenty of water. Observe all local, state, and federal environmental regulations.

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

<b>UN#</b>	n/a
<b>UN Proper Shipping Name</b>	n/a
<b>Transport Hazard Class</b>	n/a
<b>Packing Group Number</b> (if applicable, based on the degree of hazard)	n/a
<b>Environmental hazards</b> (marine pollutant? International Maritime Dangerous Goods Code (IMDG))	n/a
<b>Guidance on Bulk Transport</b>	n/a

## Section XV - Regulatory Information (non-mandatory)

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

## Section XVI - SDS History

<b>Line #</b>	<b>Date</b>	<b>Revision</b>	<b>Comments</b>
1	12/31/2015	A	MSDS to SDS
2	6/1/2016	B	Address change