



SDS

SAFETY DATA SHEET


Product Name: (as shown on label)	AZ-2100-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-2100-IECW	Manufacturer:	AZ Technology Inc.
Spec/Rev #:	CPS-C-007 Rev. H	Address:	180 West Park Loop NW Huntsville AL, 35806
Usage:	White Electrically Dissipative Inorganic Thermal Control Coating	Company Ph.# :	(256) 837-9877
		Emergency #:	(256) 837-9877

Section II - Hazard Identification

Hazard statement and classification	H302 + H312 Acute toxicity, Oral + Dermal (category 4). Harmful if swallowed or in contact with skin.
Signal Word	Caution: Irritant (eye and skin).
Pictograms	
Safety Phrases	S26 Contact with eyes: rinse immediately with plenty of water and seek medical advice
Precautionary Statements	P264 Wash skin thoroughly after handling. P270 Do not eat, drink, or smoke when using this product. P280 Wear protective gloves/ eye protection/ face protection. P301+P312+P330 If SWALLOWED rinse mouth with water. Call poison center/ doctor/ physician if you P302+P352 If ON SKIN wash with plenty of soap and water. P363 Wash contaminated clothing before reuse. P501 Dispose of contents/containers to an approved waste disposal plant.

Section III - Composition/Information on Ingredients

Common Name	CAS#	OSHA PEL	ACGIH TLV	Other Limits Recommended
Zinc Oxalate	547-62-2	10 mg/m ³	10 mg/m ³	
Tin Oxide	18282-10-5	2mg/m ³	2 mg/m ³	0.05 mg/m ³ (NIOSH)
Potassium Silicate	1312-76-1	n/a	n/a	5 mg/m ³ (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

Inhalation:	If inhaled, remove to fresh air and give oxygen if difficulty breathing.
Skin Irritation:	Wash skin with soap and water.
Eye Contact:	Flush eyes with copious amounts of water.

Ingestion:	If swallowed, wash conscious victims mouth out with water
Important symptoms or effects including acute or delayed:	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.
Treatment Recommendations:	Consult a physician in all cases.

Section V - Fire-Fighting Measures

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

Section VI - Accidental Release Measures

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

Section VII - Handling and Storage

Safe handling precautions	Keep at ambient temperatures.
Safe storage recommendations (including incompatibilities)	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

Ventilation and/or enclosure recommendations	Wear appropriate NIOSH-approved respirator, safety goggles, gloves, and other protective clothing. Safety shower and eye bath should be within direct access. Do not breathe dust. Avoid contact with eyes, skin and clothing. Avoid prolonged or repeated exposure. Use with adequate ventilation. Wash thoroughly after handling.
PPE recommended	Protective gloves, Barrier creams may help prevent skin irritation to hypersensitive people.
PPE requirement	Use NIOSH approved mist respirator where spray occurs. Use safety eyewear.

Section IX - Physical and Chemical Properties

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

Section X - Stability and Reactivity

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

Section XI - Toxicological Information

Acute Toxicity	Zinc Oxalate	Tin Oxide	Potassium Silicate
Oral LD50 (rat):	no data available	no data available	> 5,000 mg/kg bw (rat)
Inhalation LC50 (rat):	no data available	no data available	> 2.06 g/m ³ (rat)
Dermal LD50:	no data available	no data available	> 5,000mg/kg bw (rat)
Chronic Toxicity:	no data available	no data available	none given
Corrosion Irritation:	no data available	no data available	mist may cause irritation
Sensitization:	no data available	no data available	not sensitising
Single Target Organ (STOT):	no data available	no data available	not classified
Numerical Measures:	no data available	no data available	no data available
Carcinogenicity:	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
Mutagenicity:	no data available	no data available	no evidence of genotoxicity
Reproductive Toxicity:	no data available	no data available	no evidence of reproductive toxicity
Aspiration Hazard:	no data available	no data available	not classified
Additional Information:	<p>Tin Oxide: RTECS: XQ3700000 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.</p> <p>Zinc Oxalate: RTECS: not available Stomach - Irregularities - Based on Human Evidence</p>		

Section XII - Ecological Information (non-mandatory)

	Zinc Oxalate	Tin Oxide	Potassium Silicate
Toxicity:	no data available	no data available	LC50 - Leuciscus idus (fish) - >146 mg/l - 48 h EC50 - Daphnia magna - > 146 mg/l - 24 h
Persistence and degradability:	no data available	no data available	Inorganic soluble silicates, upon dilution, rapidly depolymerise into molecular species indistinguishable from natural dissolved silica
Bioaccumulative potential:	no data available	no data available	Inorganic. The substance has no potential for bioaccumulation
Mobility in soil:	no data available	no data available	n/a

Results of PBT and vPvB assesment:	not required	not required	not classified as PBT or vPvB
Other adverse effects:	no data available	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:

Disposal Container(s)	none
Disposal Method	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.
Sewage Disposal	Flush neutralized liquid to sewer with plenty of water. Observe all local, state, and federal environmental regulations.

Section XIV - Transport Information (non-mandatory)

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

Line #	Date	Revision	Comments
1	12/31/2015	G	MSDS to SDS
2	6/1/2106	H	Address change