



# POLYMER ADHESIVES

## MATERIAL SAFETY DATA SHEET

### SECTION I

DISTRIBUTOR OR MANUFACTURER: <b>Polymer Adhesives Sealant Systems, Inc.</b>		EMERGENCY TELEPHONE NO. <b>CHEMTREC (800) 424-9300</b>
ADDRESS (Number, Street, City, State and ZIP Code) <b>501 Garrett Morris Parkway Mineral Wells, TX 76067</b>		
CHEMICAL FAMILY: <b>Solvent Based Adhesive / Sealant</b>	PRODUCT NAME AND SYNONYMS <b>Airseal Zero</b>	
PRODUCT USE <b>Adhesive / Sealant</b>	FORMULA <b>Proprietary</b>	

### SECTION II - HAZARDOUS INGREDIENTS

HAZARDOUS INGREDIENTS	CAS NUMBER	%	PEL (ppm)			SKIN DESIGNATION	LD50 OF INGREDIENT (SPECIFY SPECIES AND ROUTE)	LD50 OF INGREDIENT (SPECIFY SPECIES)
			TWA	STEL	CEILING			
Acetone	67-64-1	<10	500 ppm	750 ppm	N/A	N/A	Oral [Rat] - 5800 mg/kg	N/A
Tertiary Butyl Acetate	540-88-5	<18	200 ppm	N/A	N/A	N/A	Oral [Rat] - 4500mg/kg	Skin [Rabbit] >2000mg/kg
Crystalline silica (impurity)*	14808-60-7	< 0.7	0.05 mg/m3	10 mg/m3	N/A	N/A		
*This product is not expected to produce any unusual hazards during normal use. Exposure to high dust levels may irritate the skin, eyes, nose, throat, or upper respiratory tract. This product does not present an inhalation, ingestion, or contact health hazard unless subjected to operations such as sawing, sanding or machining which result in the generation of airborne particulate. This product contains quartz (crystalline silica) as a naturally occurring contaminant.								

### SECTION III - PHYSICAL DATA

PHYSICAL STATE <b>Paste</b>		ODOR AND APPEARANCE <b>Gray color, camphor / ketone odor</b>		VOC (grams/liter) Less Water & Exempt Solvents <b>0 (Reportable EPA)</b>	ODOR THRESHOLD (ppm) <b>N/A</b>
VAPOR PRESSURE <b>Not established</b>	VAPOR DENSITY <b>Not established</b>	EVAPORATION RATE <b>Not established</b>	BOILING POINT (°C) <b>56° C</b>		FREEZING POINT <b>79.6° C</b>
pH <b>N/A</b>	SPECIFIC GRAVITY <b>1.08 - 1.38</b>	COEFF. WATER/OIL DIST. <b>N/A</b>	SOLUBILITY IN WATER <b>Negligible</b>		VOLATILES BY WT. (%) <b>&lt; 32</b>

### SECTION IV - FIRE AND EXPLOSION DATA

FLAMMABILITY <b>X</b>	IF YES UNDER WHICH CONDITIONS? <b>See LFL / UFL</b>
FLASHPOINT (°C) AND METHOD <b>Not established</b>	UPPER FLAMMABLE LIMIT (%BY VOLUME) <b>12.8</b>
AUTOIGNITION TEMPERATURE (°C) <b>Not established</b>	LOWER FLAMMABLE LIMIT (% BY VOLUME) <b>1.26</b>

HAZARDOUS COMBUSTION PRODUCTS  
**Carbon monoxide, Carbon Dioxide and potentially other asphyxiants**

EXPLOSION DATA <b>Highly Volatile</b>	SENSITIVITY TO IMPACT <b>Not sensitive to impact</b>	SENSITIVITY TO STATIC DISCHARGE <b>Avoid static discharge, ground when using</b>
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NFPA CODE (REPRESENTATIVE OF THE MOST VOLATILE COMPONENTS IN THE SYSTEM)  
**Health - 2, Flammability - 3, Reactivity - 0, Protection - 2**

EXTINGUISHING MEDIA  
**Dry chemical, carbon dioxide, foam, water spray or fog, and vaporizing liquid type extinguishing agents are all suitable for extinguishing fires involving this type of product.**

SPECIAL FIRE FIGHTING PROCEDURES  
**Wear a self-contained breathing apparatus with a full face piece (MSHA-NIOSH Approval) in a pressure demand or other positive pressure mode when fighting fires.**

UNUSUAL FIRE AND EXPLOSION HAZARDS  
**Material is highly volatile and readily gives off vapors that are heavier than air and may travel to a distant ignition source. Avoid open flames, pilot lights, sparks, cigarettes, static discharge, electric motors, or other ignition sources in the material handling area. Containers may explode if exposed to high temperatures. Store below 115° F.**

**SECTION V - REACTIVITY DATA**

CHEMICAL STABILITY	UNSTABLE	X	HAZARDOUS POLYMERIZATION	MAY OCCUR	X	CONDITIONS TO AVOID Hydrolysis may produce small amounts of hydrochloric acid w/gross water contamination. Avoid open flames, welding arcs, or other high temperature sources which induce thermal decomposition. Avoid sanding, blasting, sawing, machining or other activity that may generate air borne particulates.
	STABLE			WILL NOT OCCUR		
INCOMPATIBILITY (Materials to avoid) Do not mix with acids, bases, or strong oxidizing agents.						
HAZARDOUS DECOMPOSITION PRODUCTS Open flames and welding arcs can cause thermal degradation with the evolution of hydrocarbon chemicals.						

**SECTION VI - TOXICOLOGICAL PROPERTIES**

ROUTE OF ENTRY: SKIN CONTACT [ ] SKIN ABSORPTION [ ] EYE CONTACT [ ] INHALATION [ ] INGESTION [ ]			
EFFECTS OF ACUTE EXPOSURE TO PRODUCT Eye: May cause pain, moderate eye irritation and slight corneal injury. Vapors may irritate eye. Skin Absorption: A single prolonged exposure is not likely to result in the material being absorbed in harmful amounts. Prolonged exposure may cause a skin irritation, even a burn. Repeated contact may cause drying or flaking of the skin. May cause more serious response if confined. Extensive contact such as immersion may cause an intense burning sensation followed by a cold numb feeling. Ingestion: Single dose oral toxicity is low. The aspirated liquid may be rapidly absorbed through the lungs and result in injury to other bodily systems. If confined or in poorly ventilated areas, vapors can rapidly accumulate and can cause unconsciousness and death. Minimal anesthetic or narcotic effects may be seen in the range of 500-10,000 PPM can cause unconsciousness, death, irregular heartbeat, irritation to the upper respiratory tract, carbonyhemoglobinemia, impairing the bloods ability to transport oxygen. Overexposure may cause irreversible damage to the peripheral nervous systems.			
EFFECTS OF CHRONIC EXPOSURE TO PRODUCT CARCINOGENIC EFFECTS: A4 (Not classifiable for human or animal.) by ACGIH. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Classified Reproductive system/toxin/female, Reproductive system/toxin/male [SUSPECTED]. The substance is toxic to central nervous system (CNS). The substance may be toxic to kidneys, the reproductive system, liver, skin. Repeated or prolonged exposure to the substance can produce target organ damage.			
EXPOSURE LIMITS See PEL	IRRITANCY OF PRODUCT May cause temporary itching to skin	SENSITIZATION TO PRODUCT None known	CARCINOGENICITY No evidence
TERATOGENICITY No evidence	REPRODUCTIVE TOXICITY tem/toxin/female, reproductive sys	MUTAGENICITY No evidence	SYNERGISTIC PRODUCTS None Known

**SECTION VII - PREVENTATIVE MEASURES**

PERSONAL PROTECTIVE EQUIPMENT		
GLOVES (SPECIFY) Nitrile	RESPIRATOR (SPECIFY) Atmospheric levels should be maintained below exposure guidelines or use NIOSH approved respirator.	EYE (SPECIFY) Follow good industrial practices by wearing safety glasses.
FOOTWEAR (SPECIFY) Appropriate chemical resistant footwear.	CLOTHING (SPECIFY) Follow good industrial practices.	OTHER (SPECIFY) N/A
ENGINEERING CONTROLS (SPECIFY, E.G., VENTILATION, ENCLOSED PROCESS) Controlling airborne concentrations below the ACGIH exposure guidelines is recommended. Use only with adequate ventilation.		
LEAK OR SPILL PROCEDURE Recover material and place in suitable container for recycle or disposal in accordance with local/state/federal regulations.		
WASTE DISPOSAL When disposing of the unused contents, the preferred options are to send to licensed reclaimers or to permitted incinerators. Any disposal practice must be in compliance with Federal, State, and Local regulations. DO NOT DUMP: sewers, ground, any body of		
HANDLING PROCEDURES AND EQUIPMENT Open containers slowly to release any pressure in containers. Follow proper Personal Protective Equipment procedures above.		
STORAGE REQUIREMENTS Store below 115°F		
SPECIAL SHIPPING INFORMATION Class 3 UN1133		

**SECTION VIII - FIRST AID MEASURES**

SPECIFIC MEASURES	
<b>Eye Contact:</b> Flush with large amounts of water or saline solution for 15 minutes, making sure to rinse under eyelids. Get prompt medical attention, especially if irritation persists or if there is evidence of burn or vision difficulty.	
<b>Skin Contact:</b> Remove contaminated clothing and wash thoroughly with a waterless hand cleaner and then soap and water. If irritation occurs, get medical attention. Launder contaminated clothing before reuse.	
<b>Inhalation:</b> Move affected person to fresh air. Administer oxygen if breathing is difficult or artificial respiration if breathing has stopped. Keep person warm and quiet and get immediate medical attention.	
<b>Ingestion:</b> Do not induce vomiting. Keep person warm and quiet. Get immediate medical attention. Aspiration in the lungs due to vomiting can cause chemical pneumonitis which can be harmful or fatal.	

**SECTION IX - SARA Section 313 SUPPLIER NOTIFICATION**

CAS NUMBER	CHEMICAL NAME	PERCENT BY WEIGHT	CAS NUMBER	CHEMICAL NAME	PERCENT BY WEIGHT
67-64-1	Acetone	<10			
540-88-5	Tertiary Butyl Acetate	<18			
14808-60-7	Crystalline silica (impurity)*	< 0.7			

**SECTION X - PREPARATION INFORMATION**

PREPARED BY (GROUP, DEPARTMENT, ETC.) Research and Development	PHONE NUMBER (940) 328-9500	DATE 2/28/2012	CHANGE NO. 5	SUPERSEDES ALL PREVIOUS PUBLICATIONS
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