

## SECTION 1 — PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NUMBER**

50208

**PRODUCT INFORMATION**www.designengineering.com  
(440) 930-7940**PRODUCT NAME**

ATAC - Advanced Thermal Acoustic Coating

**MANUFACTURER'S NAME**Design Engineering, Inc.  
604 Moore Road  
Avon Lake, Ohio 44012**EMERGENCY CONTACT** VELOCITYEHS(800)255-3924 ( NORTH AMERICA)  
+1 (813)248-0585 (INTERNATIONAL)

## SECTION 2 — HAZARDS IDENTIFICATION

**ROUTES OF EXPOSURE**

INHALATION of vapor or spray mist.  
EYE or SKIN contact with the product, vapor or spray mist.

**EFFECTS OF OVEREXPOSURE**

EYES: Irritation.  
SKIN: Prolonged or repeated exposure may cause irritation.  
INHALATION: Irritation of the upper respiratory system.

**HMIS Codes**

<b>Health</b>	<b>1</b>
<b>Flammability</b>	<b>0</b>
<b>Reactivity</b>	<b>0</b>

In a confined area vapors in high concentration may cause headache, nausea or dizziness.

**SIGNS AND SYMPTOMS OF OVEREXPOSURE**

Redness and itching or burning sensation may indicate eye or excessive skin exposure.

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE**

None generally recognized.

**CANCER INFORMATION**

For complete discussion of toxicology data refer to Section 11.

## SECTION 3 — COMPOSITION/INFORMATION ON INGREDIENTS

% by Weight	CAS Number	Ingredient	Units	Vapor Pressure
1.0	107-21-1	Ethylene Glycol		
		ACGIH C	100 mg/m <sup>3</sup>	
		OSHA TLV-C	50 ppm	
8.5	13463-67-7	Titanium Dioxide		
		ACGIH TLV	10 mg/m <sup>3</sup> as Dust	
		OSHA PEL	10 mg/m <sup>3</sup> Total Dust	
		OSHA PEL	5 mg/m <sup>3</sup> Respirable Fraction	
1.1	1314-13-2	Zinc Oxide		
		ACGIH TLV-TWA (8 HR)	10 mg/m <sup>3</sup> Total Dust	
		OSHA PEL (8 HR)	5 mg/m <sup>3</sup> Respirable Fraction	

## SECTION 4 — FIRST AID MEASURES

<b>EYES:</b>	Flush eyes with large amounts of water for 15 minutes. Get medical attention.
<b>SKIN:</b>	Wash affected area thoroughly with soap and water. Remove contaminated clothing and launder before re-use.
<b>INHALATION:</b>	If affected, remove from exposure. Restore breathing. Keep warm and quiet.
<b>INGESTION:</b>	Do not induce vomiting. Get medical attention immediately.

## SECTION 5 — FIRE FIGHTING MEASURES

**FLASH POINT**  
Not Applicable

**LEL**  
Not Applicable

**UEL**  
Not Applicable

**FLAMMABILITY CLASSIFICATION**  
Not Applicable

**EXTINGUISHING MEDIA**

Carbon Dioxide, Dry Chemical, Alcohol Foam

**UNUSUAL FIRE AND EXPLOSION HAZARDS**

Closed containers may explode (due to the build-up of pressure) when exposed to extreme heat.  
During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

**SPECIAL FIRE FIGHTING PROCEDURES**

Full protective equipment including self-contained breathing apparatus should be used.  
Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

## SECTION 6 — ACCIDENTAL RELEASE MEASURES

**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED**

Remove all sources of ignition. Ventilate the area. Remove with inert absorbent. Keep in suitable closed containers for disposal. Prevent further leakage or spillage. Prevent product from entering drains, rivers or lakes. See Section 13 for disposal.

## SECTION 7 — HANDLING AND STORAGE

**STORAGE CATEGORY**

Not Applicable

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE**

Keep container closed when not in use. Transfer only to approved containers with complete and appropriate labeling. Do not take internally.  
Keep out of the reach of children.

## SECTION 8 — EXPOSURE CONTROLS/PERSONAL PROTECTION

**PRECAUTIONS TO BE TAKEN IN USE**

Use only with adequate ventilation.

Avoid contact with skin and eyes. Avoid breathing vapor and spray mist.

Wash hands after using.

This coating may contain materials classified as nuisance particulates (listed "as Dust" in Section 2) which may be present at hazardous levels only during sanding or abrading of the dried film. If no specific dusts are listed in Section 2, the applicable limits for nuisance dusts are ACGIH TLV 10 mg/m<sup>3</sup> (total dust), 3 mg/m<sup>3</sup> (respirable fraction), OSHA PEL 15 mg/m<sup>3</sup> (total dust), 5 mg/m<sup>3</sup> (respirable fraction).

Removal of old paint by sanding, scraping or other means may generate dust or fumes that contain lead. Exposure to lead dust or fumes may cause brain damage or other adverse health effects, especially in children or pregnant women. Controlling exposure to lead or other hazardous substances requires the use of proper protective equipment, such as a properly fitted respirator (NIOSH approved) and proper containment and cleanup. For more information, call the National Lead Information Center at 1-800-424-LEAD (in US) or contact your local health authority.

**VENTILATION**

Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits. Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

**RESPIRATORY PROTECTION**

If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2.

When sanding or abrading the dried film, wear a dust/mist respirator approved by NIOSH/MSHA for dust which may be generated from this product, underlying paint, or the abrasive.

**PROTECTIVE GLOVES**

Wear gloves which are recommended by glove supplier for protection against materials in Section 2.

**EYE PROTECTION**

Wear safety spectacles with unperforated sideshields.

## SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

<b>PRODUCT WEIGHT</b>	6.6 – 6.9 lb/gal (790 - 826 g/l)	<b>VOLATILE VOLUME</b>	51% – 56%
<b>SPECIFIC GRAVITY</b>	.79 – .83	<b>EVAPORATION RATE</b>	Slower than Ether
<b>BOILING POINT</b>	>212° F (>100° C)	<b>VAPOR DENSITY</b>	Heavier than Air
<b>MELTING POINT</b>	Not Available	<b>SOLUBILITY IN WATER</b>	Soluble
		<b>pH</b>	8.2 - 8.8

**VOLATILE ORGANIC COMPOUNDS (VOC Theoretical - As Packaged)**

.176 lb/gal	21.24 g/l	Less Water and Federally Exempt Solvents Emitted VOC
0.13 lb/gal	16 g/l	

**VOLATILE ORGANIC COMPOUNDS (VOC - As Applied)**

< 0.41 lb/gal	< 50 g/l	Less Water and Federally Exempt Solvents
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## SECTION 10 — STABILITY AND REACTIVITY

**STABILITY — Stable****CONDITIONS TO AVOID**

None known.

**INCOMPATIBILITY**

None known.

**HAZARDOUS DECOMPOSITION PRODUCTS**

By fire: Carbon Dioxide, Carbon Monoxide

**HAZARDOUS POLYMERIZATION**

Will not occur

## SECTION 11 — TOXICOLOGICAL INFORMATION

**CHRONIC HEALTH HAZARDS**

IARC's Monograph No. 93 reports there is sufficient evidence of carcinogenicity in experimental rats exposed to titanium dioxide but inadequate evidence for carcinogenicity in humans and has assigned a Group 2B rating. In addition, the IARC summary concludes, "No significant exposure to titanium dioxide is thought to occur during the use of products in which titanium is bound to other materials, such as paint."

**TOXICOLOGY DATA**

CAS No.	Ingredient Name			
107-21-1	Ethylene Glycol	LC50 RAT Inhalation	6HR	2.5 mg/l
		LC50 RAT Oral		2,000 mg/kg
13463-67-7	Titanium Dioxide	LC50 RAT Oral		1,000 mg/kg
1314-13-2	Zinc Oxide	LC50 RAT Dust	4HR	> 5,700 mg/m <sup>3</sup>
		LC50 RAT Oral		15,000 mg/m <sup>3</sup>

### SECTION 12 — ECOLOGICAL INFORMATION

**ECOTOXICOLOGICAL INFORMATION**

No data available.

### SECTION 13 — DISPOSAL CONSIDERATIONS

**WASTE DISPOSAL METHOD**

Waste from this product is not hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.

Incinerate in approved facility. Do not incinerate closed container. Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

### SECTION 14 — TRANSPORT INFORMATION

Multi-modal shipping descriptions are provided for informational purposes and do not consider container sizes. The presence of a shipping description for a particular mode of transport (ocean, air, etc.), does not indicate that the product is packaged suitably for that mode of transport. All packaging must be reviewed for suitability prior to shipment, and compliance with the applicable regulations is the sole responsibility of the person offering the product for transport.

**US Ground (DOT)**

Not Regulated for Transportation.

**Canada (TDG)**

Not Regulated for Transportation.

**IMO**

Not Regulated for Transportation.

**IMO**

Not Regulated for Transportation.

**IATA/ICAO**

Not Regulated for Transportation.

### SECTION 15 — REGULATORY INFORMATION

**SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION**

CAS No.	CHEMICAL/COMPOUND	% by WT
107-21-1	Ethylene Glycol	1.0
1314-13-2	Zinc Compound	1.1

**CALIFORNIA PROPOSITION 65**

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

**TSCA CERTIFICATION**

All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

### SECTION 16 — OTHER INFORMATION

**Notice:**

WHILE THE INFORMATION AND RECOMMENDATIONS IN THIS PUBLICATION ARE TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF ACCURATE AT THE DATE OF PUBLICATION, NOTHING HEREIN IS TO BE CONSTRUED AS A WARRANTY, EXPRESS OR OTHERWISE.

IN ALL CASES, IT IS THE RESPONSIBILITY OF THE USER TO DETERMINE THE APPLICABILITY OF SUCH INFORMATION AND RECOMMENDATIONS AND THE SUITABILITY OF ANY PRODUCT FOR ITS OWN PARTICULAR PURPOSE.

THE PRODUCT MAY PRESENT HAZARDS AND SHOULD BE USED WITH CAUTION. WHILE CERTAIN HAZARDS ARE DESCRIBED IN THIS PUBLICATION, NO GUARANTEE IS MADE THAT THESE ARE THE ONLY HAZARDS THAT EXIST.

HAZARDS, TOXICITY AND BEHAVIOR OF THE PRODUCTS MAY DIFFER WHEN USED WITH OTHER MATERIALS AND ARE DEPENDENT UPON THE MANUFACTURING CIRCUMSTANCES OR OTHER PROCESSES. SUCH HAZARDS, TOXICITY AND BEHAVIOR SHOULD BE DETERMINED BY THE USER AND MADE KNOWN TO HANDLERS, PROCESSORS AND END USERS.

