

# MATERIAL SAFETY DATA SHEET

## ZC112-10 MATERIAL – Floor & Tunnel Shield

### SECTION I – PRODUCT & COMPANY IDENTIFICATION

**PRODUCT NAME:** Zero Clearance® - Fiber glass based  
**GENERAL USE:** Thermal & Acoustic Insulation  
**PRODUCT DESCRIPTION:** High temperature Fiber glass based thermal and acoustic insulation with pressure sensitive adhesive for attachment.

**Manufacturer's Name**  
Design Engineering, Inc  
36960 Detroit Rd  
Avon, OH 44011

**Date Prepared:** August 26, 2002  
**Telephone # for Information:** 440-934-0800  
**Emergency Telephone #:** 800-264-9472

### SECTION 2 HAZARDOUS INGREDIENTS

Hazardous Components	CAS #	%	OSHA PEL		ACGIH TWA		SARA Title III	RQ LBS
			PPM	MG/M2	PPM	MG/M2		
Fiber Glass Wool (b,d) Urec, polymer of phenol & Formaldehyde	65997-17-3	30-60		5		10		
Zinc (a,c)	25104-55-6	1-5	not established				Yes	1000
	7440-66-8	1-5		15	5			

(a,c) See Section 15

(b) Indicates substance appears on National Toxicology Program (NTP) list of carcinogens, International Agency for Research on Cancer (IARC) list of carcinogens or is regulated by the Occupational Safety and Health Administration (OSHA) as a possible carcinogen.

(d) California Prop 65, Safe Drinking Water and Toxic Enforcement Act of 1986, chemicals known to the state to cause cancer or reproductive toxicity. A person in the course of doing business must warn others who may consume, come into contact with, or otherwise be exposed to this chemical.

### SECTION 3 – HAZARDS IDENTIFICATION

#### **Emergency Overview**

Fiberglass wool encapsulated in polymeric resin covering. Contains aluminum foil and zinc compounds. Formaldehyde may be present in trace amounts, < 0.1%. Encapsulated product in its completed form is not hazardous by itself, however, any secondary processing that may produce a dust may create a hazardous condition. Physical contact with eyes or skin may result in abrasion and irritation to the contact point. Ingestion may result in gastric distress. Self extinguishing. No risk phrases or hazard symbols necessary.

#### **Potential Health Effects**

**INHALATION:** None expected, however, certain individuals may experience minor nausea or headaches.

**SKIN:** None expected under normal use, however, prolonged contact with glass fibers may cause irritation.

**EYES:** Contact with eyes may cause irritation.

**INGESTION:** May cause gastric distress, vomiting and diarrhea.

**CARCINOGENICITY:** NTP? Yes IARC Monographs? Yes OSHA Regulated? Yes  
Fiber Glass Wool (respirable fibers) - classified by IARC as 2B, possible cancer causing agent to humans; classified by ACGIH as A3, not likely to cause cancer in humans except under uncommon or unlikely routes or levels of exposure.

### SECTION 4 – FIRST AID MEASURES

**INHALATION:** Remove affected person to fresh air; if symptoms persist seek medical attention.

SKIN: Remove contaminated clothing; wash affected area with soap and water, launder contaminated clothing separately before reuse; if irritation persists, seek medical attention.

EYES: Remove contact lenses. Flush eyes with water for 15 minutes; if irritation persists, seek medical attention.

INGESTION: Give two glasses of water for dilution; DO NOT induce vomiting; never give anything by mouth to an unconscious person; seek medical attention.

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## SECTION 5 – FIRE FIGHTING MEASURES

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FLASH POINT (Method Used) FLAMMABLE LIMITS LEL: Not applicable UEL: Not applicable  
Self-extinguishing (FMVS 302) AUTOIGNITION TEMPERATURE: Not determined NFPA CLASS: None

GENERAL HAZARDS: Product is self extinguishing. Passed test method FMVS 302, Self Extinguishing

### EXTINGUISHING MEDIA

Carbon dioxide, water, water fog, dry chemical, chemical foam

### FIRE FIGHTING PROCEDURES

Firefighters must wear full facepiece self-contained breathing apparatus in positive pressure mode.

### UNUSUAL FIRE AND EXPLOSION HAZARDS

None

### HAZARDOUS COMBUSTION PRODUCTS

Smoke, fumes, oxides of carbon

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## SECTION 6 – ENVIRONMENTAL RELEASE MEASURES

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STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Confine and segregate product for reuse; place material into approved containers for disposal; for releases in excess of allowable limits (RQ) notify the National Response Center (800)424-8802; refer to CERCLA 40 CFR 302 for detailed instructions; refer to SARA Title III, Section 313, 40 CFR 372 for reporting requirements. Do not allow product to enter lakes, ponds, streams or public waters.

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## SECTION 7 – HANDLING & STORAGE

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PRECAUTIONS FOR HANDLING AND STORAGE. No special requirements. Protect product from mishandling or aggressive activity.

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## SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

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### ENGINEERING CONTROLS

The use of local exhaust ventilation and airborne particle collection is recommended. No other special controls are indicated.

### PERSONAL PROTECTION

Respiratory Protection (Specify Type): None required under normal use.

Protective Gloves: Recommended for general protection

Eye Protection: Recommended for general protection

Other Protective Clothing or Equipment: Safety eyebath nearby

Work/Hygienic Practices: Practice safe workplace habits

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## SECTION 9 – PHYSICAL & CHEMICAL PROPERTIES

VAPOR PRESSURE (MM Hg)

Not applicable

SPECIFIC GRAVITY ( WATER = 1)

VAPOR DENSITY (AIR = 1)

Not applicable

EVAPORATION RATE (WATER = 1)

SOLUBILITY IN WATER	Not specified	FREEZING POINT	Not applicable
pH	Negligible	APPEARANCE & ODOR	Not applicable
BOILING POINT	Not applicable	PHYSICAL STATE	Encapsulated solid sheet, odorless
VISCOSITY	Not applicable	VOLATILE ORGANIC COMPOUNDS	Solid
	Not applicable		None

### SECTION 10 – STABILITY & REACTIVITY

STABILITY	UNSTABLE	CONDITIONS TO AVOID: Avoid generating airborne dust:
	STABLE : XXX	

INCOMPATIBILITY (MATERIALS TO AVOID): Strong oxidizers, strong acids

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: Decomposition will not occur if handled and stored properly. In case of a fire, oxides of carbon, hydrocarbons, fumes, and smoke may be produced.

HAZARDOUS POLYMERIZATION	MAY OCCUR:	CONDITIONS TO AVOID:
None	WILL NOT OCCUR: XXX	

### SECTION 11 – TOXICOLOGICAL INFORMATION

<u>Hazardous Ingredients</u>	<u>%</u>	<u>CAS #</u>	<u>LD50 of Ingredient</u>	
<u>LC50 of Ingredient</u>			<u>(Specify Species/Route)</u>	
<u>(Specify Species)</u>				
Fiber Glass Wool (b,d) Established	30 – 60	65997-17-3	Not Established	Not
Urea, polymer of phenol & formaldehyde Established	1 – 5	25104-55-6	Not Established	Not
Aluminum (fume or dust) (a) Established	8 – 16	7429-90-5	Not Established	Not
Zinc Established	1 – 5	7440-66-6	Not Established	Not

### SECTION 12 – ECOLOGICAL INFORMATION

No data are available on the adverse effects of this material on the environment. Neither COD nor BOD data are available. Based on the chemical composition of this product it is assumed that the mixture can be treated in an acclimatized biological waste treatment plant system in limited quantities. However, such treatment should be evaluated and approved for each specific biological system. None of the ingredients in this mixture are classified as a Marine Pollutant.

### SECTION 13 – DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Dispose of in accordance with Local, State, and Federal Regulations. Do not flush to sanitary sewer or waterway. Refer to “40 CFR Protection of Environment Parts 260 – 299” for complete waste disposal regulations. Consult your Local, State, or Federal Environmental Protection Agency before disposing of any chemicals.

### SECTION 14 – TRANSPORT INFORMATION

PROPER SHIPPING NAME:	Not Regulated	HAZARD SYMBOLS:
None		
HAZARD CLASS / Pack Group:	None / None	IATA HAZARD CLASS / Pack Group:
None		
REFERENCE:	Not Applicable	IMDG HAZARD CLASS:
None		
IDENTIFICATION NUMBER:	None	RID / ADR Dangerous Goods Code:
None		
LABEL:	None Required	Canadian TDG Class / Division:
None		

Note: Transportation information provided is for reference only. Client is urged to consult CFR 49 parts 100 – 177, IMDG, IATA, EC, Canadian TDG, and United Nations TDG information manuals for detailed regulations and exceptions covering specific container sizes, packaging materials and methods of shipping.

### SECTION 15 – REGULATORY INFORMATION

**TSCA (Toxic Substance Control Act)**

Components of this product are listed on the TSCA Inventory.

**SARA TITLE III (Superfund Amendments & Reauthorization Act)**

311/312 Hazard Categories – None

313 Reportable ingredients: (a) Indicates a toxic chemical subject to annual reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40 CFR 372.

**CERCLA (Comprehensive Response Compensation and Liability Act)**

(c) The Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) has notification requirements for releases or spills to the environment of the Reportable Quantity (RQ for this mixture >24,000 lbs) or greater amounts, according to 40 CFR 302.

**CPR (Canadian Controlled Products Regulations)**

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

**IDL (Canadian Ingredient Disclosure List)**

Components of this product listed on the Canadian Ingredient Disclosure List are shown in Section 2.

**EINECS (European Inventory of Existing Commercial Chemical Substances)**

Components of this product are on the European Inventory of Existing Commercial Chemical Substances.

**California Prop 65 – Warning:** This product contains glasswool fibers (airborne particles of respirable size), a chemical known to the State of California to cause cancer.

**EC Risk Phrases**

**EC Safety Phrases**

### SECTION 16 – OTHER INFORMATION

No specific notes.

HMIS HAZARD RATINGS	HEALTH	1	0 = INSIGNIFICANT	3 =
HIGH				
	FLAMMABILITY	1	1 = SLIGHT	4 =
EXTREME				
	REACTIVITY	0	2 = MODERATE	
	PERSONAL PROTECTIVE EQUIPMENT	A	SAFETY GLASSES	

REVISION SUMMARY: This MSDS has been revised in the following sections: No revisions available.

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The information contained herein is believed to be accurate but is not warranted to be so. Data and calculations are based on information furnished by the manufacturer of the product and manufacturers of the components of the product. Users are advised to confirm in advance of need that information is current, applicable and suited to the circumstances of use. Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Furthermore, vendor assumes no responsibility for injury caused by abnormal use of this material even if reasonable safety procedures are followed. Any questions regarding this product should be directed to the manufacturer of the product as described in Section 1.