## MATERIAL SAFETY DATA SHEET





### 1. PRODUCT COMPANY IDENTIFICATION

Product Name	Pentra-Guard™ (HP)				
General Use	Concrete Protective Clear Coat				
Product Description	White alkaline liquid, may cause eye and skin irritation upon contact.				

#### Details of the Supplier of the Safety Data Sheet / Manufacturer / Supplier

Advanced Concrete Technologies, LLC, 450 South 1325 West, Orem, UT 84058, USA Telephone Number: 801-375-2280

#### **Distributor Detail**

Region	New Zealand / Australia

Lesa Systems 2017 LTD: 700 Great South Road, Penrose, P O Box 9826, Auckland, New Zealand, Phone: +64 9 526 7136, Fax: +64 9 525 2139, Freephone: 0800 74 5372, Email: sales@lesasystems.co.nz

Emergency contact 0800 764 766 - New Zealand National Poisons Centre

### 2. HAZARDS INGREDIENTS

HAZARDOUS COMPONENTS	% BY WEIGHT	CAS#	EINECS No	HAZARD SYMBOL	RISK PHRASES Full Text Section 16
Proprietary Ingredient A (*,a)	7-13	Not specified	Not specified	Xi	R-36//38
Proprietary Ingredient B (a)	5-10	Not specified	Not specified.	Xi	R-38, 41, 43
Proprietary Ingredient C (a)	3-7	Not specified	Not specified	С	R-34

<sup>(\*)</sup> The ACGIH Threshold Limit Value (TLV) has not been established nor has OSHA established the Permissible Exposure Limit (PEL) for this product, therefore the limits described have been established as guidelines by the manufacturer.

#### 3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW - Alkaline liquid, prolonged contact may cause skin & eye irritation. Ingestion may cause gastric distress. Hazard symbols for this product - Xi. R-Phrases - R-36/38

Potential	Health	Effects
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Inhalation	Move to fresh air. If not breathing, give rescue breathing. If breathing is difficult, give oxygen. Seek medical attention if breathing is still difficult.					
Skin	Prolong	Prolonged contact may cause irritation.				
Eyes	Contact with eyes will cause irritation					
Ingestion	May cause gastric distress, vomiting, diarrhea					
Carcinogenicity	NTP?	No	IARC MONOGRAPHS?	No	OSHA REGULATED?	No

<sup>(</sup>a) The specific product is not identified due to "Trade Secret" status. In emergency situations further information may be obtained by the on - duty physician calling the emergency information number listed above. Reference 29 CFR 1910.1200 and / or 40 CFR 350.

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### 4. FIRST-AID MEASURES

Inhalation	Remove affected person to fresh air; wash mouth and nasal passages with water repeatedly; if breathing difficulties persist seek medical attention.
Skin	Wash contacted area with soap and water. Do not attempt to neutralise with chemical agents; if irritation persists, seek medical attention.
Eyes	Check for and remove contact lenses. immediately flush eyes for 15 minutes in clear running water while holding eyelids open; seek medical attention immediately.
Ingestion	Drink large quantities of water or milk; Do not induce vomiting; never give anything by mouth to an unconscious person; seek medical attention immediately.

### 5. FIRE-FIGHTING MEASURES

General Hazards	Product is alkaline. Products of combustion include compounds of carbon, hydrogen and oxygen, including carbon monoxide.			
Extinguishing Media	Carbon dioxide, water, water fog, dry chemical, chemical foam.			
Fire Fighting Procedures	Keep containers cool with water spray to prevent container rupture due to steam buildup; floor will become slippery if material is released. Material is alkaline and will irritate the eyes if product is allowed to directly contact the eyes.			
Unusual Fire and Explosion Hazards	None			
Hazardous Combustion Products	Smoke, fumes or vapors, oxides of carbon.			

### 6. ACCIDENTAL RELEASE MEASURES

Released or Spilled	Material is alkaline wear proper PPE. Stop the source of the release if you are not put at risk. Use absorbent material (such as sand or kitty litter) to absorb the spill, use plastic shovel to pick up
•	absorbent for disposal.

### 7. HANDLING AND STORAGE

Precautions to be Taken in	Keep container closed when not in use; protect containers from abuse; protect from extreme
Handling and Storage	temperatures. Keep this and other chemicals out of reach of children.

### 8. EXPOSURE CONTROL/PERSONAL PROTECTION

	NIOSH				ACGIH			
Hazardous Components	TWA ppm	TWA mg/m3	STEL ppm	STEL mg/m3	TWA ppm	TWA mg/m3	STEL ppm	STEL ppm
Proprietary Ingredient A (*,a)								
Proprietary Ingredient B (a)		Not Esta	ablished			Not Esta	ablished	
Proprietary Ingredient C (a)		Not Esta	ablished		Not Established			
Personal Protection								
Respiratory Protection	None required while threshold limits are kept below maximum allowable concentrations; if TWA exceeds limits, NIOSH approved respirator must be worn. Refer to 29 CFR 1910.134 or European Standard EN 149 for complete regulations.							
Protective Gloves	Neoprene, butyl or nitrile rubber gloves with cuffs.							
Eye Protection	Chemical splash goggles. Refer to 29 CFR 1910.133 or European Standard EN166.							

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Other Protective Clothing or Equipment	Overalls, apron, or other equipment should be worn to minimize skin contact, safety eyewash station nearby.			
Work / Hygiene Practices	Practice safe workplace habits. Minimize body contact with this, as well as all chemicals in general.			

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance and Odour	Milky white, distinct amonia odour	Vapour Pressure	17mm Hg 20°C
рН	Approximately 11.0	Specific Gravity (water=1)	1.106
Boiling Point / Boiling Range	100°C	Solubility in Water	Appreciable (>95%)
Flash Point	Non-flammable	Viscosity	Like that of water
Flammable Limits	LEL: Not applicable UEL: Not applicable	Vapour Density (air=1)	<1
FAutoignition Temperature	Not determined	Evaporation Rate (water=1)	< 1

### 10. STABILITY AND REACTIVITY

Stability	Unstable: Stable: X	Conditions to Avoid	Extreme temperatures, keep from freezing
Incompatibility (Materials to Avoid)	Strong oxidisers, 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 or vapors, and smoke may be produced.		
Hazardous Polymerisation  May Occur: Will Not Occur: X  Conditions to Avoid None		None	

### 11. TOXICOLOGICAL INFORMATION

HAZARDOUS COMPONENTS	CAS# EINECS#	LD50 OF INGREDIENT (Specify Species and Route)	LD50 OF INGREDIENT (Specify Species)
Propietary Ingredient A (*, a)	Not Specified Not Specified	16,540 mg / kg Oral - rat	Not Established
Propietary Ingredient B (a)	Not Specified Not Specified	7460 mg / kg Oral - rat	Not Established
Propietary Ingredient C (a)	Not Specified Not Specified	Not Established	Not Established

### 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.

### 13. DISPOSAL CONSIDERATIONS

	Dispose of in accordance with Local, State, and Federal Regulations. Refer to "40 CFR Protection of Environment Parts 260 - 299" for complete waste disposal regulations for alkaline materials.		
Waste Disposal Method	Consult your local, state, or Federal Environmental Protection Agency before disposing of any		
	chemicals. According to the European Waste Catalogue, waste codes are application specific		
	and should be assigned by the user based on the application for which the product is used.		

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### 14. TRANSPORT INFORMATION

Proper Shipping Name	Non-Hazardous for Transport		
Dot Hazard Class / Packaging Group	Not required Dot Hazard Class / Packaging Group Not regulated		
Reference	Not Applicable	IMDG Hazard Class	Not regulated
UN / NA Identification Number	None	RID /ADR Dangerous Goods Code	Not regulated
Label	None Required	UN TDG Class / Packaging Group	Not regulated
Hazard Symbols	None	Hazard Identification Number (HIN)	None

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

### 15. REGULATORY INFORMATION

TSCA (USA - Toxic Substance Control Act)	All components of this product are listed on the U.S. Toxic Substances Control Act Chemical Inventory (TSCA Inventory) or are exempted from listing because a Low Volume or Polymer Exemption has been granted in accordance with 40 CFR 723.50.
SARA TITLE III (USA - Superfund Amendments and Reauthorization Act)	311/312 Hazard Categories: None 313 Reportable Ingredients: None
CERCLA (USA - Comprehensive Response Compensation and Liability Act)	None
California Prop 65 Safe Drinking Water and Toxic Enforcement Act of 1986	There are no chemicals present known to the state of California to cause cancer or reproductive toxicity.
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. WHMIS Classification: Not controlled
IDL (Canadian Ingredient Disclosure List)	Components of this product identified by CAS number and listed on the Canadian Ingredient Disclosure List are shown in Section 2.
DSL / NDSL (Canadian Domestic Substances List / Non-Domestic Substances List)	Components of this product identified by CAS number are listed on the DSL or NDSL, or are otherwise in compliance with the New Substances Notification (NSN) regulations. Only ingredients classified as "hazardous" are listed in Section 2 unless otherwise indicated.
EINECS (European Inventory of Existing Commercial Chemical Substances)	Components of this product identified by CAS numbers are on the European Inventory of Existing Commercial Chemical Substances.
Risk Phrases	R36/38 Irritating to eyes and skin
Symbol(s) Required for Label	<b></b> Irritant
Safety Phrases	S24/25 Avoid contact with skin and eyes S28 After contact with skin, wash immediately with plenty of soap and water.

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### 16. OTHER INFORMATION

Notes & Full R-Phase Text	R34 Causes burns R36/38 Irritating to eyes and skin R41 Risk of serious damage to the eyes R43 May cause sensitization by skin contact			
HMIS Hazard Ratings	Health	1	* = Chronic Health Hazard	2=Moderate
	Flammability	0	0 = Insignificant	3=High
	Physical Hazard	0	1 = Slight	4=Extreme
	Personal Protective Equipment	С	Safety glasses, gloves, apron	

Revision Summary	This MSDS has been revised in the following sections: Text Updates
MSDS Prepared by	Comprehensive Data Base, Inc. P.O. Box 395 Intercession City, FL 33848 USA (863) 644 - 3298 www.compdatabase.com or www.msds.cc

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.