Material Safety Data Sheet

IDENTITY (As Used on Label and List)

ARMOR-GUARD



Section I

Manufacture's Name	Emergency Telephone Number:	
Perma-Chink Systems, Inc.	CHEMTREC 1-800-424-9300	
Address (Number, Street, City, State, and ZIP code)	Telephone Number for Information:	
1605 Prosser Road	865-524-7343	
	Date of Preparation	
Knoxville, TN 37914	3/5/2012	
Preparer's Name	Signature of Preparer (optional)	
Sean Gahan		

Section II - Hazardous Ingredients/Identity Information

	CAS	OSHA / PEL	ACGIH TLV	Other Limit	% (optional)
	#			Recommended	1
Disodium Octaborate Tetrahydrate	12280-03-4	5 mg/m ³ (respirable dust) 15 mg/m ³ (total dust)	10 mg/m ³		

Section III – Physical/Chemical Characteristic
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Boiling Point:	Specific Gravity (H ₂ 0 = 1)		
N/A	2.25		
Vapor Pressure (mm Hg.)	Melting Point: 815°C		
N/A	% Volatile (Volume) N/A		
Vapor Density (Air = 1)	Evaporation Rate		
N/A	(Butyl Acetate = 1) N/A		
Solubility in Water	·		

9.7 % @ 20°C

Appearance and Odor

White, ordorless, crystalline solid

Section IV - Fire and Explosion Hazard Data

Flash Point (Method Used)	Flammable Limitations	LEL	UEL	
N/A	N/A	N/A	N/A	
Extinguishing Media				
Any fire extinguishing media may be used on nearby				
fires.				
Special Fire Fighting Procedures	NFPA Rating: Health = 1, Flammability = 0, Reactivity = 1			
Unusual Fire and Explosion Hazards	Reactions with strong reducing agents such as metal		as metal	
Product itself is a flame retardant.	hydrides or alkali metals will generate hydrogen gas, which could create an explosive hazard.		en gas,	

Section V - Reactivity Data

Stability	Unstable		Conditions to Avoid	
	Stable	✓	None Known	
Incompatibility (Materials to Avoid)	Reactions with strong reducing agents such as metal hydrides or alkali metals will generate hydrogen gas, which could create an explosive hazard.			

Hazardous Decomposition or Byproducts	None known
riazardous Decombosition of Dybroducis	INDIE KIDWII

Hazardous Polymerization	May Occur		Conditions to Avoid
	Will Not Occur	✓	None Known

Section VI – Health Hazard Data				
Routes of Entry Inhalation? Yes Skin? Ye	es Ingestion? Yes Eye Contact	t? Yes		
Health Hazards (Acute and Chronic)				
Carcinogenicity? NO NTP? NO	IARC Monographs? NO	OSHA Regulated? NO		
Signs and Symptoms of Exposure:				
Symptoms of accidental exposure might	nt include nausea, vomiting, diarrhe	ea. delayed skin redness and peeling.		
Medical Conditions: Generally aggravated by		, ,		
Emergency and First Aid Procedures:				
Eye contact: Flush with cle	an water for at least 15 minutes; se	eek medical attention.		
Ingestion: Small amounts (to healthy adults. If larger quantity are ingested,		
Skin: Non-irritating.				
Inhalation: Remove to fres	h air.			
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Section VII – Precautions for Safe I Steps to be taken in Case Material is Release				
•	•	le Federal, State, and Local regulations.		
		, ,		
Waste Disposal Method				
Small quantities can usually be disp applicable Federal, State, and Local		ispose of material in accordance with all		
Precautions to be taken in Handling and Stori	na			
No special precautions. Store in a d	·			
	•			
Other Precautions				
Section VIII – Control Measures				
Respiratory Protection (Specify Type)				
None if below PEL limits				
Ventilation Local Exhaust Yes	Special			
Mechanical (general)	Other			
Protective Gloves	Eye Protection			
None required for normal use	Goggles if	extremely dusty.		
Other Protective Clothing or Equipment				
None required for normal use				
Work/Hygenic Practices				

The information contained herein is, to the best of Perma-Chink Systems, Inc. knowledge, accurate as of the data indicated. Since the information contained herein may be applied under conditions beyond our control and with which we may be unfamiliar, and since data made available subsequent to the date hereof may suggest modifications of the information, we do not assume responsibility for the results of its use. This information is furnished on the condition that the person receiving it shall make his own determination as to the suitability of the material for his particular purpose and on the condition that he assumes the risk of his use thereof.