	EALTH AMMABILIT			ted: 10/22/2015 ion: 10/22/2015
	HYSICAL PE	0 X	Health Special Hazard	
• • •			iny Identification	
Product Code:	28 Cold Cure	-	-	
Product Name:	28 Cold Cure	Hardener	- Part B	
Trade Name:	28 Cold Cure			
Manufacturer Information				
	Epoxy Syster	ne Inc		
Company Name.			Ave	
	20774 W Per	•	Ave	
	Dunnellon, Fl			
Phone Number:	+1 (352) 489	-1666		
Emergency Contact:	PERS (USA)		(800) 633-8253	
Alternate Emergency Contact:	PERS (Intern	ational)	+1 (801) 629 0667	
Intended Use:	Industrial floc	or coatings.		
	2. Haza	rds Ider	ntification	
GHS Classification	Placard	Key word	GHS hazard phrase	
Skin Sensitization, Category 1B	Exclamation	Warning	May cause an allergic skin reaction	
Skin Corrosion/Irritation, Category 2	point Exclamation point	Warning	Causes skin irritation	
Serious Eye Damage/Eye Irritation, Category 1	Corrosive	Danger	Causes serious eye damage	
Acute Toxicity: Oral, Category 4	Exclamation point	Warning	Harmful if swallowed	
Aquatic Toxicity (Chronic), Category 2	Pollution		Toxic to aquatic life with long lasting effect	S
Aquatic Toxicity (Acute), Category 2	none		Toxic to aquatic life	
Acute Toxicity: Inhalation, Category 4	Exclamation point	Warning	Harmful if inhaled	
GHS Hazard Phrases	F			
H317 - May cause an allergic skin	reaction.			
H315 - Causes skin irritation.				
H318 - Causes serious eye damage	e.			
H302 - Harmful if swallowed.				
H411 - Toxic to aquatic life with l	long lasting ef	fects.		
H401 - Toxic to aquatic life.				
H332 - Harmful if inhaled.				
GHS Precaution Phrases	try magazztic -	hore	and and understood	
P202 - Do not handle until all safe P262 - Do not get in eyes, on skir	• •		read and understood.	
1 202 - Do not get in eyes, on skil	i, or on crouin	<u>п</u> <u></u>		

- P261 Avoid breathing dust/fume/gas/mist/vapors/spray.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P362+364 Take off contaminated clothing and wash it before reuse.
- P273 Avoid release to the environment.

GHS Response Phrases

P302+352 - IF ON SKIN: Wash with plenty of soap and water. P333+313 - If skin irritation or rash occurs, seek medical advice/attention. P362 - Take off contaminated clothing.

P305+351+338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing. P313 - Get medical advice/attention. P301+330+331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P310 - Immediately call a POISON CENTER or doctor/physician.

P304+340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P342 - If experiencing respiratory symptoms: P313 - Get medical advice/attention.

GHS Storage and Disposal Phrases

P501 - Dispose of contents/container to local, state, and federal authority requirements.

P404 - Store in a closed container. P405 - Store locked up.

Potential Health Effects (Acute and Chronic)

May cause sensitization. May cause skin irritation or burns. May cause respiratory tract irritation. May cause allergic skin reaction. Can cause severe eye irritation.

Inhalation

Corrosive to respiratory tract. May cause respiratory sensitization.

Skin Contact

Contact with substance may cause severe burns to skin. Symptoms may include redness, edema, drying, defatting and cracking of the skin.

Eye Contact

Corrosive/irritation to eyes. Causes eye burns.

Ingestion

Harmful if swallowed. This product may produce corrosive damage to the gastrointestinal tract if it is swallowed. Ingestion may produce burns to the lips, oral cavity, upper airway, esophagus and possibly the digestive tract.

Recommended Exposure Limits

Not established.

Medical Conditions Generally Aggravated By Exposure

Skin disorders, Respiratory disorders, Eye disorders, Skin Allergies.

OSHA Regulatory Status:

This material is classified as hazardous under OSHA regulations.

3. Composition/Information on Ingredients

На	zardous Components (Chemical Name)	CAS #	Concentration
1.	4-tert-Butylphenol	98-54-4	30 - 45 %
2.	Phenol, 4-nonyl-, branched	84852-15-3	15 - 25 %
3.	1,3-Benzenedimethanamine	1477-55-0	10 - 20 %
4.	Trimethylhexamethylenediamine	25620-58-0	10 - 20 %
5.	Benzenemethanol	100-51-6	5.0 - 15 %

4. First Aid Measures

Emergency and First Aid Procedures

In Case of Inhalation

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. If experiencing respiratory symptoms: Get medical attention immediately.

In Case of Skin Contact

In case of contact, immediately wash skin with soap and copious amounts of water. Remove contaminated clothing and shoes. Get medical attention if irritation develops or persists.

In Case of Eye Contact

In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Get medical attention immediately.

In Case of Ingestion

If swallowed, wash out mouth with water provided person is conscious. Do not induce vomiting. Never induce vomiting or give anything by mouth if the victim is unconscious or having convulsions. Get medical attention immediately.

Signs and Symptoms Of Exposure

Eyes: Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva.

Skin: Can cause severe skin burns. Symptoms may include redness, edema, drying, defatting and cracking of the skin.

Inhalation: Vapors are irritating to the respiratory system, may cause throat pain and cough.

5. Fire Fighting Measures						
Flash Pt:	> 200.00 F Method Used: Pensky-Marten Closed Cup					
Explosive Limits:	LEL: NE UEL: NE					
Autoignition Pt:	No data available.					
Fire Fighting Instructions						
Protective Equipment:	Wear self-contained breathing apparatus and protective clothing to prevent contact with					
skin and eyes.						
Flammable Properties and	Hazards					

Combustible material: may burn but does not ignite readily.

Hazardous Combustion Products

In a fire, product may produce the following: Carbon monoxide, Carbon dioxide, Nitrogen oxides, Fire may produce irritating, corrosive and/or toxic gases.

Suitable Extinguishing Media

CO2, dry chemical, dry sand, alcohol-resistant foam.

Unsuitable Extinguishing Media

Do not use a direct water stream, which may spread fire.

6. Accidental Release Measures

Steps To Be Taken In Case Material Is Released Or Spilled

PROCEDURE TO BE FOLLOWED IN CASE OF LEAK OR SPILL.

Absorb with sand or vermiculite and place in closed containers for disposal. Ventilate the area.

Protective Precautions, Protective Equipment and Emergency Procedures

Wear respirator, chemical safety goggles, rubber boots, and heavy rubber gloves. Where splashing is possible, full chemically resistant protective clothing, and boots are required.

Environmental Precautions

Prevent entry into waterways, sewers, basements or confined areas.

7. Handling and Storage

Hazard Label Information:

Avoid contact with eyes. Do not get on skin and clothing. Avoid inhalation of vapor or mist. Store in a closed container.

Precautions To Be Taken in Handling

Provide adequate ventilation. Wear all personal protection required in section 8.

Precautions To Be Taken in Storing

Keep container tightly closed in a dry and well-ventilated place. Store away from incompatible material.

Other Precautions

Wash thoroughly after handling.

No data.

No data.

No data.

8. Exposure Controls/Personal Protection							
Hazardous Components (Chemical Name)	CAS #	OSHA PEL	ACGIH TWA	Other Limits			
1. 4-tert-Butylphenol	98-54-4	No data.	No data. No	No data.			
2. Phenol, 4-nonyl-, branched	84852-15-3	No data.	data. CEIL:	No data.			

No data.

mg/m3

No data.

No data.

1477-55-0 No data. 1,3-Benzenedimethanamine 3. 25620-58-0 No data. 4 Trimethylhexamethylenediamine 100-51-6

Benzenemethanol 5.

Protective Equipment Summary - Hazard Label Information:

Neoprene gloves Safety glasses, or goggles. Impervious clothing. Chemical resistant boots

Respiratory Equipment (Specify Type)

Normally when good engineering controls are used, no respiratory protection is needed. However, if cured product is abraded by sanding or grinding use a NIOSH approved air-purifying respirator. Where risk assessment shows air-purifying respirators are appropriate use a dust mask type N95 (US) or type P1 (EN 143) respirator. A NIOSH/MSHA approved air purifying respirator with an organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection.

Eye Protection

Safety glasses, or goggles.

Protective Gloves

Nitrile rubber and Neoprene are recommended.

Other Protective Clothing

Where splashing is possible, full chemically resistant protective clothing, safety glasses or face shield and boots are required.

Engineering Controls (Ventilation etc.)

Good general ventilation should be sufficient to control airborne levels. Safety shower and eye bath.

Work/Hygienic/Maintenance Practices

Wash contaminated clothing before reuse. Discard contaminated shoes. Wash thoroughly after handling.

Environmental Exposure Controls

Avoid runoff into storm sewers and ditches which lead to waterways.

9. Physical and Chemical Properties						
Physical States:	[]Gas [X]Liquid []Solid					
Melting Point:	NE					
Boiling Point:	NE					
Decomposition Temperature:	NE					
Autoignition Pt:	No data.					
Flash Pt:	> 200.00 F Method Used: Pensky-Marten Closed Cup					
Explosive Limits:	LEL: NE UEL: NE					
Specific Gravity (Water = 1):	~ .988					
Density:	~ 8.24 LB/GL					
Vapor Pressure (vs. Air or mm Hg):	NE					
Vapor Density (vs. Air = 1):	NE					
Evaporation Rate:	NE					

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Solubility in Water:	NE	
Solubility Notes		
Slightly Soluble.		
Percent Volatile:	N.A.	
VOC / Volume:	NP	
HAP / Volume:	NP	
Saturated Vapor Concentration:	NE	
Appearance and Odor		
Odor: amine-like.		
Appearance: Liquid. amber.		
	10. Stability and Reactivity	
Stability:	Unstable [] Stable [X]	
Reactivity		
Avoid: acids, alkalis, oxidizing a	gents. Nitric Acids.	
Conditions To Avoid - Instability		
Extreme temperatures.		
Incompatibility - Materials To Avoid		
Avoid strong acids, bases, and or	kidizing agents.	
Hazardous Decomposition Or Bypro	oducts	
- · · ·	duce smoke, carbon monoxide, carbon dioxide, and phenolics	. Nitric Acids.
Nitrogen oxides, ammonia.		
Possibility of Hazardous	Will occur [] Will not occur [X]	
Polymerization:		
Conditions To Avoid - Hazardous Ro		
<u> </u>	merization in normal storage conditions.	
	11. Toxicological Information	
Toxicological Information		
•	ay cause sensitization by skin contact. Vapors may be harmfu	l to the respiratory
tract.		
Chronic Toxicological Effects		
May cause skin sensitization.		
Irritation or Corrosion		
	es. May cause respiratory irritation.	
Symptoms related to Toxicological		1 1 .
Skin: Contact with substance ma defatting and cracking of the skin	y cause severe burns to skin. Symptoms may include redness, 1.	edema, drying,
Eves: Symptoms may include dis	acomfort or pain excess blinking and tear production with ma	arked redness and

Eyes: Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva. Permanent eye damage including blindness could result.

Inhalation: Inhalation of vapors/fumes causes respiratory irritation with throat discomfort, coughing or difficulty breathing.

На	zardous Components (Chemical Name)	CAS #	NTP	IARC	ACGIH	OSHA
1.	4-tert-Butylphenol	98-54-4	n.a.	n.a.	n.a.	n.a.
2.	Phenol, 4-nonyl-, branched	84852-15-3	n.a.	n.a.	n.a.	n.a.
3.	1,3-Benzenedimethanamine	1477-55-0	n.a.	n.a.	n.a.	n.a.

	SAF	ETY DA	TA SHEET		Page: 6
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Hazardous Components (Chemical Name)	CAS #	NTP	IARC	ACGIH	OSHA
4. Trimethylhexamethylenediamine	25620-58-0		n.a.	n.a.	n.a.
5. Benzenemethanol	100-51-6		n.a.	n.a.	n.a.
	12. Ecolo	gical Inf	ormation		
 General Ecological Information Avoid release to the environmed large quantities. Very toxic to a Results of PBT and vPvB assessmed No data available. Persistence and Degradability Not readily biodegradable. Bioaccumulative Potential No data available. 	aquatic life with lo		•	is to the environi	nent if released in
Mobility in Soil					
not reported, unknown.					
	13. Dispos	al Cons	iderations		
Waste Disposal Method Incinerate or dispose of unused applicable local, state and fede				•	
	14. Trans	port Info	ormation		
LAND TRANSPORT (US DOT)					
DOT Proper Shipping Name	CAUSTIC ALP Amines) MAR		D, N.O.S. (Contai TANT.	ns Nonyl Pheno	I, Cycloaliphatic
	Marine Polluta	ant(s): Nony	lphenol.		
			- DOT requirement kagings transporte	•	arine Pollutants do icles, rail cars or
DOT Hazard Class:	8				
DOT Hazard Label:	CORROSIVE				
UN/NA Number:	UN1719				
Packing Group:	Ш				
Precautionary Label	and skin irritat	ion. May ca	•	ation. Wear prote	ntact. May cause ey ective equipment ar
AIR TRANSPORT (ICAO/IATA)					
ICAO/IATA Shipping Name	CAUSTIC ALF Amines) MAR		D, N.O.S. (Contai TANT.	ns Nonyl Pheno	l, Cycloaliphatic
	Marine Polluta	ant(s): Nony	lphenol.		
			- DOT requirement kagings transporte		arine Pollutants do icles, rail cars or

	15. Regulatory Information
Pollutant:	Yes
Number: Marine	FA,SB
Group: IMDG EMS	III
Class: Packing	8 - CORROSIVE
UN Number: Hazard	1719
	Marine Pollutant(s): Nonylphenol.
IMDG/IMO Shipping Name	CAUSTIC ALKALI LIQUID, N.O.S. (Contains Nonyl Phenol, Cycloaliphatic Amines) MARINE POLLUTANT.
MARINE TRANSPORT (IMDG/IMO)	
Packing Group:	111
Hazard Class:	8 - CORROSIVE
UN Number:	1719

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Hazardous Components (Chemical Name)	CAS #	Sec.302 (EHS)	Sec.304 RQ	Sec.313 (TRI)	Sec.110
1. 4-tert-Butylphenol	98-54-4	No	No	No	No
2. Phenol, 4-nonyl-, branched	84852-15-3	No	No	No	No
3. 1,3-Benzenedimethanamine	1477-55-0	No	No	No	No
4. Trimethylhexamethylenediamine	25620-58-0	No	No	No	No
5. Benzenemethanol	100-51-6	No	No	No	No

Regulatory Information

SARA Section 311/312: Acute, Chronic Health Hazard.

16. Other Information

CA=CIRCA NA=NOT AVAILABLE NE=NOT ESTABLISHED NR=NOT REGULATED NP= NOT APPLICABLE PR=PROPRIETARY TS=TRADE SECRET ?=UNKNOWN.

Company Policy or Disclaimer

The information contained in this MSDS is taken from sources believed to be accurate as of the date hereof; however Epoxy Systems, Inc. makes no expressed or implied warranty in respect to the accuracy of the information or the suitability of the recommendations, and assumes no liabilities to any user thereof.

Revision Date:

10/22/2015