SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY

Product Name: Clear Baked Phenolic Coating Product Code: L-66MCE

MANUFACTURER : Heresite Protective	TELEPHONE NUMBER: +1 (920) 684-6646
Coatings, LLC	FAX NUMBER: +1 (920) 684-0110
822 S. 14th Street	
Manitowoc, WI 54220, USA	EMERGENCY PHONE: CHEMTREC
	+1 (800) 424-9300

E-MAIL ADDRESS OF PERSON RESPONSIBLE: peter@heresite.com

Product Use: Industrial and Commercial Coatings, primary application to metal. Not recommended for: Any other application

SECTION 2: HAZARDS IDENTIFICATION

GHS Ratings:

Flammable liquid	2	Flash point < 23°C and initial boiling point > 35°C (95°F)
Oral Toxicity	3	Oral>50+<=300mg/kg
Skin corrosive	1A	Destruction of dermal tissue: Exposure < 3 min. Observation < 1 hour, visible necrosis in at least one animal
Eye corrosive	1	Serious eye damage: Irreversible damage 21 days after exposure, Draize score: Corneal opacity >= 3, Iritis > 1.5
Mutagen	1B	Known to produce heritable mutations in human germ cellsSubcategory 1B, Positive results: In vivo heritable germ cell tests in mammals, Human germ cell tests, In vivo somatic mutagenicity tests, combined with some evidence of germ cell mutagenicity
Carcinogen	1A	Known Human Carcinogen Based on human evidence
Reproductive toxin	1A	Based on human evidence

Signal Word: Danger



GHS Hazards

H225Highly flammable liquid and vapourH301Toxic if swallowedH314Causes severe skin burns and eye damageH318Causes serious eye damage	
H314 Causes severe skin burns and eye damage	
Causes selious eye damage	
H340 May cause genetic defects	
H350 May cause cancer	
H360 May damage fertility or the unborn child	
GHS Precautions	
P201 Obtain special instructions before use	
P202 Do not handle until all safety precautions have been read and understood	
P210 Keep away from heat/sparks/open flames/hot surfaces No smoking	

P233	Keep container tightly closed
P240	Ground/bond container and receiving equipment
P241	Use explosion-proof electrical/ventilating/light/equipment
P242	Use only non-sparking tools
P243	Take precautionary measures against static discharge
P260	Do not breathe dust/fume/gas/mist/vapours/spray
P264	Wash hands thoroughly after handling
P280	Wear protective gloves/protective clothing/eye protection/face protection
P281	Use personal protective equipment as required
P310	Immediately call a POISON CENTER or doctor/physician
P321	Specific treatment (see SDS)
P363	Wash contaminated clothing before reuse
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting
P303+P361+P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing.
	Rinse skin with water/ shower.
P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable
	for breathing
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact
	lenses, if present and easy to do. Continue rinsing.
P308+P313	If exposed or concerned: Get medical advice/attention
P370+P378	In case of fire: Use CO2, dry chemical, or foam for extinction.
P405	Store locked up
P403+P235	Store in a well-ventilated place. Keep cool
P501	Dispose of contents/container to in accordance with
	local/regional/national/international regulations.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS			
Chemical Name CAS number Weight Concentration %			
	0000.05.4	10 0001 50 0001	

	-
9003-35-4	40.00% - 50.00%
28470-78-2	10.00% - 20.00%
64-17-5	10.00% - 20.00%
108-95-2	5.00% - 10.00%
34590-94-8	5.00% - 10.00%
123-42-2	1.00% - 5.00%
67-64-1	1.00% - 5.00%
64051-40-7	1.00% - 5.00%
28655-63-2	1.00% - 5.00%
50-00-0	0.10% - 1.00%
	28470-78-2 64-17-5 108-95-2 34590-94-8 123-42-2 67-64-1 64051-40-7 28655-63-2

SECTION 4 - FIRST AID MEASURES

General Advice

If symptoms persist, call a physician. Show this safety data sheet to the doctor in attendance.

Inhalation

Remove to fresh air. If breathing has stopped, apply artificial respiration. If breathing is difficult, give oxygen if a qualified operator is available. Get medical attention.

Eye Contact

Immediately flush eyes with large amounts of water for at least 20 minutes, while holding eyelids open. Obtain medical attention immediately, as a precaution.

Skin Contact

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion

If person is conscious, give them several glasses of water to drink. Do NOT induce vomiting unless directed to do so by medical personnel. Obtain immediate medical attention.

Most important symptoms and effects, both acute and delayed

No information available

Indication of any immediate medical attention and special treatment needed

Consult a physician

SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable extinguishing media Carbon Dioxide, Dry Chemical, Foam Unsuitable extinguishing media

None identified

Special hazards arising from the substance or mixture None identified

Advice for firefighters

No data available

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Wear protective equipment. Keep unprotected persons away.

Keep people at a distance and stay on the windward side.

Ensure adequate ventilation.

Keep away from ignition sources.

Environmental precautions:

Do not allow product to reach sewage system or water bodies.

Inform respective authorities in case product reaches water or sewage system.

Prevent from spreading (e.g. by damming-in or oil barriers).

Keep dirty washing solution for appropriate disposal.

Methods and material for containment and cleaning up:

Ensure adequate ventilation and proper training.

Absorb with liquid-binding non combustible material (e.g. sand).

Clean the accident area carefully.

Send for recovery or disposal in suitable containers.

Reference to other sections:

See Section 2, 7, 8 and 13

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling: See Section 2 Conditions for safe storage: Store in a well-ventilated place. Keep cool. Store with only compatible materials. Specific end uses(s): See Section 1

SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION

			-
Chemical Name / CAS No.	OSHA Exposure Limits	ACGIH Exposure Limits	Other Exposure Limits
Phenolic resin 9003-35-4	Not Established	Not Established	Not Established
Formaldehyde, polymer resin 28470-78-2	Not Established	Not Established	Not Established
Ethanol 64-17-5	1000 ppm TWA; 1900 mg/m3 TWA	1000 ppm STEL	NIOSH: 1000 ppm TWA; 1900 mg/m3 TWA
Phenol 108-95-2	5 ppm TWA; 19 mg/m3 TWA	5 ppm TWA	NIOSH: 5 ppm TWA; 19 mg/m3 TWA 15.6 ppm Ceiling (15 min); 60 mg/m3 Ceiling (15 min)
Glycol Ether DPM 34590-94-8	100 ppm TWA; 600 mg/m3 TWA	150 ppm STEL 100 ppm TWA	NIOSH: 100 ppm TWA; 600 mg/m3 TWA 150 ppm STEL; 900 mg/m3 STEL
Diacetone Alcohol 123-42-2	50 ppm TWA; 240 mg/m3 TWA	50 ppm TWA	NIOSH: 50 ppm TWA; 240 mg/m3 TWA
Acetone 67-64-1	1000 ppm TWA; 2400 mg/m3 TWA	500 ppm STEL 250 ppm TWA	NIOSH: 250 ppm TWA; 590 mg/m3 TWA
Benzenetrimethanol, ar-(2- propenyloxy)- 64051-40-7	Not Established	Not Established	Not Established
Benzenedimethanol, ar-(2- propenyloxy) 28655-63-2	Not Established	Not Established	Not Established
Formaldehyde 50-00-0	0.75 ppm TWA	0.3 ppm Ceiling	NIOSH: 0.016 ppm TWA 0.1 ppm Ceiling (15 min)

Additional information about design of technical systems:

Engineering controls should be used as a primary means to control exposures.

Make available emergency shower and eye wash at the workplace according to appropriate standards.

A workplace risk assessment must be carried out in order to determine the corrective engineering control and

organizational measures and personal protective equipment.

No further data; see Section 7.

Exposure controls

Appropriate engineering controls:

No data available

General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Take off immediately all contaminated clothing.

Launder work clothing regularly.

Wash hands before breaks and at the end of the work.

Avoid contact with the eyes and skin.

Do not inhale gases / fumes / aerosols.

Do not eat, drink or smoke while working to limit potential ingestion of chemicals.

Personal Protective Equipment

Eye and Face Protection:

Wear eye protection/face protection. **Skin Protection:**

Wear protective gloves/protective clothing.

Hand Protection:

The glove material has to be impermeable and resistant to the product.

Due to missing tests no recommendation to the glove material can be given for the product.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation .

Respiratory Protection:

Engineering controls should be used as primary means to control exposures. Local exhaust ventilation is required unless used in a closed system. For laboratory use, handle in a lab fume hood.

If the applicable Occupational Exposure Level (OEL) is exceeded, wear a NIOSH certified respiratory protection equipment meeting US requirements (1910.134 Occupational Safety and Health Administration, Personal Protective Equipment, Respiratory Protection) with a protection factor sufficient to control exposures to below the OEL.

Environmental Exposure Controls:

See Section 6.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance: No Data Found Vapor Pressure: 43.0 mmHg Vapor Density: 1.7 Specific Gravity 1.10 Freezing point: No Data Found Boiling range: No Data Found Evaporation rate: No Data Found Explosive Limits: No Data Found Autoignition temperature: No Data Found Viscosity: No Data Found

Odor: No Data Found Odor threshold: No Data Found PH: No Data Found Melting point: No Data Found Solubility: No Data Found Flash point: -4 F,-20 C Flammability: No Data Found Partition coefficient (n- No Data Found octanol/water): Decomposition temperature: No Data Found Grams VOC less water: No Data Found

SECTION 10: STABILITY AND REACTIVITY

Reactivity:

No known hazards with respect to reactivity when handled and stored according to provisions.

Chemical Stability:

Stable under recommended storage and handling conditions.

Thermal decomposition / conditions to avoid:

Avoid exposure to heat, sources of ignition, and open flame. No decomposition if used according to specifications.

Possibility of hazardous reactions:

No data available.

Conditions to avoid:

High Temperatures.

Heat, flames and sparks.

See section 2.

Incompatible materials:

No further information available.

Heat/sparks/open flames/hot surfaces. Bases Oxidizing agents

Reducing Agent	S			
Phosphorus Ox	ychloride			
Strong Oxidizing A	gents			
Strong Acids				
Strong bases Strong Oxidizers	e			
Metals	>			
	pen flames and hot	surfaces.		
Alkali Metals				
Ammonia				
Peroxides				
Hazardous decompose In case of fire: Carbon	-	onoxide, Hydr	rocarbons	
		-	DXICOLOGICAL INFORMATIC	N
Mixture Toxicity				
Oral Toxicity LI Inhalation Toxi	D50: 116mg/kg city LC50: 407m	g/L		
Component Toxicity				
108-95-2	Phenol			
04500.04.0		,	ermal LD50: 630 mg/kg (Rabbit) Inh	alation LC50: 900 mg/kg (rat)
34590-94-8	Glycol Ether DPM Inhalation LC50: 3			
123-42-2	Diacetone Alcoho			
123-42-2			tion LC50: 1,500 ppm (rat)	
50-00-0	Formaldehyde Oral LD50: 100 m	ıg/kg (Rat) De	ermal LD50: 270 mg/kg (Rabbit) Inh	alation LC50: 1 mg/L (Rat)
No adverse health eff the product label. Routes of Entry:	ects expected if th	e product is l	handled in accordance with this Sa	fety Data Sheet and
Inhalation	Skin Contact	Ingestio	n	
Exposure to this mate		-		
Blood Eyes	Kidneys	Liver	Central Nervous System	Reproductive System
•	Respiratory Sys		,	, ,
Effects of Overexpos				
May be harmful if				
inhaled. Causes				
respiratory tract				
irritation.				
May be harmful if				
absorbed through skin. Causes skin				
irritation.				
Irritating to eyes.				
May be harmful if swallowed				
Toxic if inhaled.				
Material is extremely	у			
destructive to the				
tissue of the mucou				
membranes and up respiratory tract	ber			
respiratory tract				

Toxic if absorbed through skin. Causes skin burns Causes eye burns Toxic if swallowed

<u>CAS Number</u> 50-00-0	<u>Description</u> Formaldehyde	<u>% Weight</u> .1 to 1.0%	<u>Carcinogen Rating</u> Formaldehyde: NIOSH: potential occupational carcinogen IARC: Human carcinogen OSHA: listed
9003-35-4 64-17-5	Phenolic resin Ethanol	40 to 50% 10 to 20%	Phenolic resin: Ethanol: IARC: Human carcinogen OSHA: listed

SECTION 12: ECOLOGICAL INFORMATION

Toxicity:

No ecotoxicological data for the substance itself are available.

Persistence and degradability:

No further relevant information available.

Bioaccumulative potential:

No further relevant information available.

Mobility in soil:

No further relevant information available

Results of PBT and VPvB assessment:

No data available

Other adverse effects:

No further relevant information available.

Component Ecotoxicity

Ethanol

96 Hr LC50 Oncorhynchus mykiss: 12.0 - 16.0 mL/L [static]; 96 Hr LC50 Pimephales promelas: >100 mg/L [static]; 96 Hr LC50 Pimephales promelas: 13400 - 15100 mg/L [flow-through] 48 Hr LC50 Daphnia magna: 9268 - 14221 mg/L; 48 Hr EC50 Daphnia magna: 2 mg/L [Static]

Phenol	 96 Hr LC50 Pimephales promelas: 11.9 - 50.5 mg/L [flow-through]; 96 Hr LC50 Pimephales promelas: 20.5 - 25.6 mg/L [static]; 96 Hr LC50 Pimephales promelas: 32 mg/L; 96 Hr LC50 Oncorhynchus mykiss: 5.449 - 6.789 mg/L [flow-through]; 96 Hr LC50 Oncorhynchus mykiss: 7.5 - 14 mg/L [static]; 96 Hr LC50 Oncorhynchus mykiss: 4.23 - 7.49 mg/L [semi-static]; 96 Hr LC50 Oncorhynchus mykiss: 5.0 - 12.0 mg/L; 96 Hr LC50 Lepomis macrochirus: 13.5 mg/L [static]; 96 Hr LC50 Lepomis macrochirus: 11.9 - 25.3 mg/L [flow-through]; 96 Hr LC50 Lepomis macrochirus: 11.9 - 25.3 mg/L [flow-through]; 96 Hr LC50 Lepomis macrochirus: 11.5 mg/L [semi-static]; 96 Hr LC50 Poecilia reticulata: 34.09 - 47.64 mg/L [static]; 96 Hr LC50 Poecilia reticulata: 31 mg/L [semi-static]; 96 Hr LC50 Brachydanio rerio: 27.8 mg/L; 96 Hr LC50 Cyprinus carpio: 0.00175 mg/L [semi-static]; 96 Hr LC50 Oryzias latipes: 33.9 - 43.3 mg/L [flow-through]; 96 Hr LC50 Daphnia magna: 4.24 - 10.7 mg/L [Static]; 48 Hr EC50 Daphnia magna: 10.2 - 15.5 mg/L 96 Hr EC50 Pseudokirchneriella subcapitata: 46.42 mg/L; 96 Hr EC50 Pseudokirchneriella subcapitata: 0.0188 - 0.1044 mg/L [static]; 72 Hr EC50 Desmodesmus subspicatus: 187 - 279 mg/L [static]
Glycol Ether DPM	96 Hr LC50 Pimephales promelas: >10000 mg/L [static] 48 Hr LC50 Daphnia magna: 1919 mg/L
Diacetone Alcohol	96 Hr LC50 Lepomis macrochirus: 420 mg/L [static]; 96 Hr LC50 Lepomis macrochirus: 420 mg/L
Acetone	96 Hr LC50 Oncorhynchus mykiss: 4.74 - 6.33 mL/L; 96 Hr LC50 Pimephales promelas: 6210 - 8120 mg/L [static]; 96 Hr LC50 Lepomis macrochirus: 8300 mg/L 48 Hr EC50 Daphnia magna: 10294 - 17704 mg/L [Static]; 48 Hr EC50 Daphnia magna: 12600 - 12700 mg/L
Formaldehyde	96 Hr LC50 Pimephales promelas: 22.6 - 25.7 mg/L [flow-through]; 96 Hr LC50 Lepomis macrochirus: 1510 μg/L [static]; 96 Hr LC50 Brachydanio rerio: 41 mg/L [static]; 96 Hr LC50 Oncorhynchus mykiss: 0.032 - 0.226 mL/L [flow-through]; 96 Hr LC50 Oncorhynchus mykiss: 100 - 136 mg/L [static]; 96 Hr LC50 Pimephales promelas: 23.2 - 29.7 mg/L [static] 48 Hr LC50 Daphnia magna: 2 mg/L; 48 Hr EC50 Daphnia magna: 11.3 - 18 mg/L [Static]

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods:

Waste material must be disposed of I/A/W Federal, State & Local environmental control regulations. Incineration is a recommended technology. Empty containers must be handled with care due to product residue. Decontaminate containers prior to disposal. Do not heat/cut empty container with electric or gas torch.

SECTION 14: TRANSPORT INFORMATION

Environmental hazards:

No information available

Special precautions for users:

No information available.

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:

Not required, not intended to be carried in bulk tankers.

<u>Agency</u> IATA	<u>Proper Shipping Name</u> Paint	<u>UN Number</u> 1263	Packing Group	Hazard Class 3
IMDG	Paint	1263	II	3
USDOT	Paint	1263	II	3

SECTION 15: REGULATORY INFORMATION

Classification:

Classified as hazardous according to criteria in the HS (Minimum Degrees of Hazard) Regulations 2001.

State of California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This product contains the following chemicals which are listed by the State of California as carcinogenic or a reproductive toxin:

50-00-0 Formaldehyde 0.1 to 1.0 % 64-17-5 Ethanol 10 to 20 %

Clean Air Act

50-00-0 Formaldehyde 0.1 to 1.0 % 67-64-1 Acetone 1 to 5 % 123-42-2 Diacetone Alcohol 1 to 5 % 108-95-2 Phenol 5 to 10 % 64-17-5 Ethanol 10 to 20 %

Clean Water Act

50-00-0 Formaldehyde 0.1 to 1.0 % 108-95-2 Phenol 5 to 10 %

SARA Section 302

50-00-0 67-64-1 108-95-2

OSHA Hazards

123-42-2 Diacetone Alcohol 1 to 5 % Flammable liquid, Target Organ Effect, Irritant
34590-94-8 Glycol Ether DPM 5 to 10 % Target Organ Effect
108-95-2 Phenol 5 to 10 % Target Organ Effect, Toxic by inhalation, Toxic by ingestion, Mutagen, Corrosive
64-17-5 Ethanol 10 to 20 % Flammable liquid, Target Organ Effect, Irritant

SARA 311/312

50-00-0 Chronic Health Hazard, Acute Health Hazard 67-64-1 Fire Hazard, Chronic Health Hazard, Acute Health Hazard 123-42-2 Fire Hazard, Chronic Health Hazard, Acute Health Hazard 34590-94-8 Fire Hazard, Chronic Health Hazard 108-95-2 Chronic Health Hazard, Acute Health Hazard 64-17-5 Fire Hazard, Chronic Health Hazard, Acute Health Hazard

SARA 313

50-00-0 Formaldehyde 0.1 to 1.0 % 108-95-2 Phenol 5 to 10 %

TSCA (Toxic Substance Control Act)

50-00-0 Formaldehyde 0.1 to 1.0 % 67-64-1 Acetone 1 to 5 % 123-42-2 Diacetone Alcohol 1 to 5 % 34590-94-8 Glycol Ether DPM 5 to 10 % 108-95-2 Phenol 5 to 10 %

TSCA (Toxic Substance Control Act) 8b

50-00-0 Formaldehyde 0.1 to 1.0 % 28655-63-2 Benzenedimethanol, ar-(2-propenyloxy) 1 to 5 % 64051-40-7 Benzenetrimethanol, ar-(2-propenyloxy)- 1 to 5 % 67-64-1 Acetone 1 to 5 % 123-42-2 Diacetone Alcohol 1 to 5 % 34590-94-8 Glycol Ether DPM 5 to 10 % 108-95-2 Phenol 5 to 10 % 64-17-5 Ethanol 10 to 20 % 28470-78-2 Formaldehyde, polymer resin 10 to 20 % 9003-35-4 Phenolic resin 40 to 50 %

<u>Country</u>	Regulation	All Components Listed
USA	New Jersey Right to Know	No
USA	Pennsylvania Right to Know	No
USA	Massachusetts Right to Know	No
AU	Australia inventory	No
CA	Canadian Domestic Substances List/Non-Domestic Substa	No
EU	European inventory	No
JP	Japan inventory	No
CN	China inventory	No
Korea	Korean Existing and Evaluated Chemical Substances	No
NZ	New Zealand inventory	No
PH	Philippine The Toxic Substances and Hazardous and Nucle	No
Canada		No
EU Risk Phrase	<u>es</u>	

Safety Phrase

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act, and Title 40 of the Code of Federal Regulations part 372.

50-00-0 Formaldehyde 0.1 - 1.0% 108-95-2 Phenol 5 - 10%

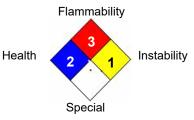
SECTION 16: OTHER INFORMATION

Hazardous Material Information System (HMIS)



HMIS & NFPA Hazard Rating Legend * = Chronic Health Hazard 0 = INSIGNIFICANT 1 = SLIGHT 2 = MODERATE 3 = HIGH

National Fire Protection Association (NFPA)



DISCLAIMER: The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

Date revised: 2016-10-06 Date Prepared: 8/24/2021 **Reviewer Revision 4**