

ChemShield 1643 Resin

(Part A)

Safety Data Sheet (SDS)

Section 1 - Product and Company Identification

Trade Name: ChemShield 1643 Resin (All Versions)

Company:

Wolverine Coatings Corporation 5969 US Highway 221 Roebuck, SC 29376 +1 (864) 587-3144 Product Code: ChemShield 1643-000 NU1A Resin

Emergency Contact:

ChemTel 24 Hr. US Emergency Number: +1 (800) 255-3924 ChemTel 24 Hr. Worldwide Emergency Number: +1 (813) 248-0585

Product Use: Coatings

Not recommended for: None Identified

Section 2 - Hazards Identification

GHS Ratings:

<u>ene nauger</u>				
Skin Corrosive	2	Reversible adverse effects in dermal tissue, Draize score: >= 2.3 < 4.0 or persistent inflammation		
Eye Corrosive	2A	Eye irritant: Subcategory 2A, Reversible in 21 days		
Respiratory	1	Respiratory sensitizer		
sensitizer	1	Respiratory sensitized		
Skin Sensitizer	1	Skin Sensitizer		
Mutagen	1B	Known to produce heritable mutations in human germ		
Mutagen		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		
Aquatic toxicity	C3	Acute toxicity > 10.0 but <= 100.0 mg/l and lack of rapid degradability and log Kow >= 4 unless BCF < 500 and unless chronic toxicity > 1 mg/l		
GHS Hazards				
H315	Caus	es skin irritation		
H317	May cause an allergic skin reaction			
H319	Causes serious eye irritation			
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled			
H340	May cause genetic defects			
H350	May cause cancer			
H412	Harmful to aquatic life with long lasting effects			
GHS Precautions				
P201	Obta	in special instructions before use		
P202	Do not handle until all safety precautions have been read and understood			
P261	Avoid breathing dust/fume/gas/mist/vapours/spray			
P264	Wash thoroughly after handling			
P272	Contaminated work clothing should not be allowed out of the workplace			
P273	Avoid release to the environment			
P280	Wear protective gloves/protective clothing/eye protection/face protection			
P281		personal protective equipment as required		
P285		se of inadequate ventilation wear respiratory protection		
P321		ific treatment (see label)		
P362		off contaminated clothing and wash before reuse		
P363	Wasł	Wash contaminated clothing before reuse		

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P302+P352	IF ON SKIN: Wash with soap and water
P304+P341	IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing
P305+P351+P338	IF IN EYES: Rinse continuously 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
P332+P313	If skin irritation occurs: Get medical advice/attention
P333+P313	If skin irritation or a rash occurs: Get medical advice/attention
P337+P313	Get medical advice/attention
P342+P311	Call a POISON CENTER or doctor/physician
P405	Store locked up
P501	Dispose of contents/container in accordance with all local, regional, national, and international regulations.

Signal Word: Danger



Section 3 - Composition / Information on Ingredients

Chemical Name	CAS number	Weight Concentration %
Extra Pure Calcined Ceramic Oxides	1344-28-1	40.00% - 50.00%
Epoxy Phenol Novolac Resin	9003-36-5	30.00% - 40.00%
Epoxy Phenol Novalac Resin	28064-14-4	5.00% - 10.00%
Quartz	14808-60-7	5.00% - 10.00%
1,4-Bis(2,3-epoxypropoxy)butane	2425-79-8	1.00% - 5.00%
Benzyl Alcohol	100-51-6	1.00% - 5.00%
Ethylbenzene	100-41-4	0.10% - 1.00%

Section 4 - First Aid Measures

Inhalation: If affected, remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention.

Eye Contact: Immediately flush eyes for at least fifteen minutes with running water. Hold eyelids apart to ensure rinsing of the entire eye surface and lids with water. If eye irritation persists: Get medical advice/attention.

Skin contact: Immediately remove contaminated clothing and shoes. Wash affected areas thoroughly with soap and water. If irritation develops, seek medical attention.

Ingestion: Do not induce vomiting. Never give anything by mouth to an unconscious person. If a person vomits when lying on his back, place him in the recovery position. Get immediate medical attention.

Section 5 - Fire Fighting Measures

Flash Point:182 C (359 F)LEL: 1.00UEL: 13.00Extinguishing Media:Use carbon dioxide, foam, dry chemical, dry sand, water fog, or limestone powder
extinguishing systems.

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Unusual Fire and Explosion Hazards: None

Hazardous combustion products: Irritating or toxic substances may be emitted upon burning, combustion or decomposition. See section 10 (Stability and Reactivity) for additional information.

Special Fire Fighting Procedures: Firefighters should be equipped with self-contained breathing apparatus. **Fire Equipment:** No Data

Section 6 - Accidental Release Measures

Spill And Leak Procedures: Avoid all personal contact. Ensure cleanup personnel wear all appropriate Personal Protective Equipment (PPE), including respiratory protection. Spills should be contained, solidified, and placed in suitable containers for disposal.

Section 7 - Handling and Storage

Handling Precautions: Use good laboratory/workplace procedures. Wash thoroughly after handling this product. Always wash up before eating, smoking or using the facilities. Use under well-ventilated conditions. Avoid eye and skin contact. Avoid inhalation of aerosol, mist, spray, fume or vapor. Avoid drinking, tasting, swallowing or ingesting this product. Wash contaminated clothing before reuse. Discard shoes contaminated with this product.

Storage Requirements: Keep away from heat, sparks, and open flames. Store cool and dry, under well-ventilated conditions. Store this material away from incompatible substances (see section 10). Do not store in open, unlabeled or mislabeled containers. Keep container closed when not in use.

Chemical Name / CAS #	OSHA Exposure Limits	ACGIH Exposure Limits	Other Exposure Limits
Extra Pure Calcined Ceramic Oxides 1344-28-1	TWA: 15 mg/m3 total dust TWA: 5 mg/m3 Respirable fraction	TWA: 1 mg/m3	Not Established
Epoxy Phenol Novolac Resin 9003-36-5	Not Established	Not Established	Not Established
Epoxy Phenol Novalac Resin 28064-14-4	Not Established	Not Established	Not Established
Quartz 14808-60-7	TWA30 mg/m3 / %SiO2+2 total dust TWA: 10 mg/m3 /%SiO2+2 respirable fraction	TWA: 0.025 mg/m3	Not Established
1,4-Bis(2,3-epoxypropoxy) butane 2425-79-8	Not Established	Not Established	Not Established
Benzyl Alcohol 100-51-6	Not Established	Not Established	Not Established
Ethylbenzene 100-41-4	TWA: 435 mg/m3	TWA: 20 ppm	Not Established

Section 8 - Exposure Controls / Personal Protection

Ventilation: Good general mechanical ventilation and local exhaust is recommended.

Hygiene: Eye wash must be easily accessible. Wear protective clothing as necessary to prevent contact. When using, do not eat, drink or smoke. Hands and/or face should be washed before breaks and at the end of the shift. Gloves must be inspected regularly and prior to each use. Replace if necessary.

Personal Protective Equipment: Wear impervious protective gloves. Wear OSHA, NIOSH approved organic vapor respirator if ventilation is inadequate. Wear appropriate protective evewear such as splash-proof, chemical resistant safety goggles.

Contaminated Gear: Take off all contaminated clothing immediately. Wash contaminated clothing before reuse.

Section 9 - Physical and Chemical Properties

This mixture typically exhibits the following properties under normal circumstances:

Appearance:	Liquid	Odor:	Not available
Vapor Pressure:	1.4 mm Hg	Odor threshold:	Not available
Vapor Density:	Not available	pH:	Not available
Density (g/cm3):	1.79	Melting point:	Not available
Freezing point:	Not available	Solubility:	Not available
Boiling range:	Not available	Flash point:	181°C, 359°F
Evaporation rate:	Not available	Flammability:	Not available
Explosive Limits:	Not available	Partition coefficient (n- octanol/water):	Not available
Autoignition temperature:	Not available	Decomposition temperature:	Not available
Viscosity:	Not available	Grams VOC less water:	Not available

Section 10 - Stability and Reactivity

Stability:

STABLE

Components of this mixture are incompatible with the following materials:

Strong Oxidizers Strong Acids Strong Bases Amines Alkalies

This mixture is likely to exhibit the following combustion products:

Carbon Dioxide, Carbon Monoxide **Biphenyls** Nitrogen Oxides Smoke Aldehydes Phenol

Hazardous polymerization will not occur.

Section 11 - Toxicological Information

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Mixture Toxicity:

Inhalation Toxicity LC50: 11mg/L

Component Toxicity:

1344-28-1	Extra Pure Calcined Ceramic Oxides
	Inhalation LC50: 3 mg/L (Rat)
28064-14-4	Epoxy Phenol Novalac Resin
	Oral LD50: 2,000 mg/kg (rat)
2425-79-8	1,4-Bis(2,3-epoxypropoxy)butane
	Oral LD50: 1,163 mg/kg (rat) Dermal LD50: 1,130 mg/kg (rabbit) Inhalation LC50: 250 ppm

100-51-6	Benzyl Alcoho Oral LD50: 1,6		al LD50: 2,010 mg/kg	(Rabbit) Inhalation LC50: 4 mg/L (
100-41-4	Ethylbenzene Oral LD50: 3,5	00 mg/kg (rat) Inhalat	tion LC50: 17 mg/L (ra	at)	
Routes of Entry: Inhalation	Skin Contact	Eye Contact	Ingestion		
	material may a t spiratory System	ffect the following o	organs:		
		ens by NTP, IARC, O		ted and/or classified as ing), or ACGIH (optional listing): Carcinogen Rating Quartz: If product is in liquid or paste form, physical or health hazards listed related to dust are not considered significant. However, product may contain substances that could be potential hazards if caused to become airborne due to grinding, sanding or other abrasive processes.	
100-41-4	Ethylbe	nzene	0.1 to 1.0%	Ethylbenzene:	
Section 12 - Ecological Information					
Component Ecoto Epoxy Phenol Nova	•	LC50 10 mg/l fish 96	6h; EC50 10 mg/l wat	er flea 48h	
Quartz		LC50 >10,000 mg/l fish 72h; EC50 7600 mg/L water flea 48h; EC50 440mg/L algae, 72h;		mg/L water flea 48h; EC50	
		LC50 24 mg/l fish 96h; EC50 76 mg/l water daphnia 24h; EC50 160 mg/l algae 72h			
Benzyl Alcohol			96 h; EC50 360 ppm 58 mg/l bacteria 16 h	water flea 48 h; EC50 640 mg/l	
Ethylbenzene		LC50 5.1 mg/l fish 9 72h	96h; EC50 2.4 mg/l wa	ater flea 96h; EC50 4.9 mg/l algae	

Section 13 - Disposal Considerations

Waste disposal Methods: Dispose in accordance with Federal, State and Local regulations.

Section 14 - Transport Information

This material is classified for transport as follows:

<u>Agency</u> DOT	Proper Shipping Name Non-Regulated	<u>UN Number</u> N/A	<u>Packing Group</u> N/A	<u>Hazard Class</u> N/A
IATA	Non-Regulated	N/A	N/A	N/A
IMDG	Non-Regulated	N/A	N/A	N/A

Section 15 - Regulatory Information

Additional regulatory listings, where applicable:

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State of California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65):

WARNING! This product contains the following chemicals which are listed by the State of California as carcinogenic or a reproductive toxin:

Ethylbenzene 100-41-4 Quartz 14808-60-7

Materials not included on the Canada DSL inventory:

- None

Commonwealth of Massachusetts "Right to Know": This product contains the following toxic or hazardous substances which appear on the Massachusetts Substance List:

Ethylbenzene 100-41-4 Benzyl Alcohol 100-51-6 Quartz 14808-60-7 Extra Pure Calcined Ceramic Oxides 1344-28-1

NJ "Right to Know": This product contains the following toxic or hazardous substances which appear on the New Jersey Substance List:

Ethylbenzene 100-41-4 Benzyl Alcohol 100-51-6 Quartz 14808-60-7 Extra Pure Calcined Ceramic Oxides 1344-28-1

Pennsylvania "Right to Know": This product contains the following toxic or hazardous substances which appear on the Pennsylvania Substance List:

Ethylbenzene 100-41-4 Benzyl Alcohol 100-51-6 Quartz 14808-60-7 Extra Pure Calcined Ceramic Oxides 1344-28-1

EPA SARA Title III Section 313 (40 CFR 372) components above 'de minimum' level:

Ethylbenzene 100-41-4 Extra Pure Calcined Ceramic Oxides 1344-28-1

Toxic Substances Control Act (TSCA): All chemicals except those listed below appear in the Toxic Substances Control Act Chemical Substance Inventory:

- None

Country Regulation

All Components Listed

EU Risk Phrases

Safety Phrase

Toxic Substances Control Act (TSCA): All chemicals except those listed below appear in the Toxic Substances Control Act Chemical Substance Inventory:

- None

EPA SARA Title III Section 313 (40 CFR 372) compnenets above 'de minimum' level:

Section 16 - Other Information

For further information, please contact the Product Safety director. The information and recommendations contained herein are, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by use of this material. All chemicals may present unknown health hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist. Final determination of suitability of the chemical is the sole responsibility of the user. Users of any chemical should satisfy themselves that the conditions and methods of use assure that the chemical is used safely. No representations or warranties, either expressed or implied of merchantability, fitness for a particular purpose, or any other nature, are made hereunder with respect to the information contained herein, or to the chemical to which the user refers.

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