



# ChemShield 1641 Resin

(Part A)

Safety Data Sheet (SDS)

## Section 1 - Product and Company Identification

**Trade Name:** ChemShield 1641 Resin (All Versions)

**Product Code:** 1641-040-BU1A-01-RES

**Company:**

Wolverine Coatings Corporation  
5969 US Highway 221  
Roebuck, SC 29376  
+1 (864) 587-3144

**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:**

Skin Corrosive	2	Reversible adverse effects in dermal tissue, Draize score: $\geq 2.3 < 4.0$ or persistent inflammation
Eye Corrosive	2A	Eye irritant: Subcategory 2A, Reversible in 21 days
Skin Sensitizer	1	Skin Sensitizer
Carcinogen	1A	Known Human Carcinogen Based on human evidence
Reproductive Toxin	1A	Based on human evidence

**GHS Hazards**

H315	Causes skin irritation
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
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
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
P280	Wear protective gloves/protective clothing/eye protection/face protection
P281	Use personal protective equipment as required
P321	Specific treatment (see label)
P362	Take off contaminated clothing and wash before reuse
P363	Wash contaminated clothing before reuse
P302+P352	IF ON SKIN: Wash with soap and water
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
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 %
Quartz	14808-60-7	40.00% - 50.00%
Epoxy Phenol Novalac Resin	28064-14-4	30.00% - 40.00%
Cenospheres	68131-74-8	5.00% - 10.00%
Silicon dioxide, chemically prepared	112945-52-5	1.00% - 5.00%
Xylene	1330-20-7	1.00% - 5.00%
POLY(UREA-CO-FORMALDEHYDE), BUTYLATED	68002-19-7	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:** 195 C (383 F) LEL: 1.00 UEL: 7.00

**Extinguishing Media:** Use carbon dioxide, foam, dry chemical, dry sand, water fog, or limestone powder extinguishing systems.

**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.

### Section 8 - Exposure Controls / Personal Protection

Chemical Name / CAS #	OSHA Exposure Limits	ACGIH Exposure Limits	Other Exposure Limits
Quartz 14808-60-7	TWA30 mg/m <sup>3</sup> / %SiO <sub>2</sub> +2 total dust TWA: 10 mg/m <sup>3</sup> /%SiO <sub>2</sub> +2 respirable fraction	TWA: 0.025 mg/m <sup>3</sup>	Not Established
Epoxy Phenol Novalac Resin 28064-14-4	Not Established	Not Established	Not Established
Cenospheres 68131-74-8	Not Established	Not Established	Not Established
Silicon dioxide, chemically prepared 112945-52-5	TWA: 20 Million particles per cubic foot	Not Established	Not Established
Xylene 1330-20-7	TWA- 100 ppm, 435 mg/m <sup>3</sup>	TLV: TWA- 100 ppm; STEL- 150 ppm	Not Established
POLY(UREA-CO- FORMALDEHYDE),	Not Established	Not Established	Not Established

BUTYLATED  
68002-19-7

**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 eyewear 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:

<b>Appearance:</b> Liquid	<b>Odor:</b> Not available
<b>Vapor Pressure:</b> 16.1 mmHg	<b>Odor threshold:</b> Not available
<b>Vapor Density:</b> Not available	<b>pH:</b> Not available
<b>Density (g/cm<sup>3</sup>):</b> 1.49	<b>Melting point:</b> Not available
<b>Freezing point:</b> Not available	<b>Solubility:</b> Not available
<b>Boiling range:</b> Not available	<b>Flash point:</b> 195°C, 383°F

<b>Evaporation rate:</b> Not available	<b>Flammability:</b> Not available
<b>Explosive Limits:</b> Not available	<b>Partition coefficient (n-octanol/water):</b> Not available
<b>Autoignition temperature:</b> Not available	<b>Decomposition temperature:</b> Not available
<b>Viscosity:</b> Not available	<b>Grams VOC less water:</b> Not available

## Section 10 - Stability and Reactivity

### Stability:

STABLE

### Components of this mixture are incompatible with the following materials:

Strong Oxidizers  
Strong Acids  
Amines  
Alkalies

### This mixture is likely to exhibit the following combustion products:

Carbon Dioxide, Carbon Monoxide  
Nitrogen Oxides  
Methanol  
Formaldehyde  
Butanol  
Xylene  
Phenol

Hazardous polymerization will not occur.

## Section 11 - Toxicological Information

### Mixture Toxicity:

Oral Toxicity LD50: 3,813mg/kg  
Inhalation Toxicity LC50: 343mg/L

### Component Toxicity:

### Routes of Entry:

Inhalation    Skin Contact    Eye Contact    Ingestion

### Exposure to this material may affect the following organs:

Lungs    Respiratory System

The following chemicals comprise 0.1% or more of this mixture and are listed and/or classified as carcinogens or potential carcinogens by NTP, IARC, OSHA (mandatory listing), or ACGIH (optional listing):

<b>CAS Number</b>	<b>Description</b>	<b>% Weight</b>	<b>Carcinogen Rating</b>
68002-19-7	POLY(UREA-CO-FORMALDEHYDE),0.1 to 1.0% BUTYLATED		POLY(UREA-CO-FORMALDEHYDE), BUTYLATED:
14808-60-7	Quartz	40 to 50%	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.

## Section 12 - Ecological Information

### Component Ecotoxicity:

Quartz	LC50 >10,000 mg/l fish 72h; EC50 7600 mg/L water flea 48h; EC50 440mg/L algae, 72h;
Epoxy Phenol Novalac Resin	LC50 10 mg/l fish 96h; EC50 10 mg/l water flea 48h
Silicon dioxide, chemically prepared	LC50 >10,000 mg/l fish 96h; EC50 >1000 mg/l water flea 24h;
Xylene	LC50 2 mg/l fish 96h; EC50 75.49 mg/l water flea 24h; EC50 72 mg/l algae 14d

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

IATA

IMDG

## Section 15 - Regulatory Information

### Additional regulatory listings, where applicable:

#### 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:

Cenospheres 68131-74-8

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:

Xylene 1330-20-7

Cenospheres 68131-74-8

Quartz 14808-60-7

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

Xylene 1330-20-7

Silicon dioxide, chemically prepared 112945-52-5

Cenospheres 68131-74-8

Quartz 14808-60-7

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

Xylene 1330-20-7

Silicon dioxide, chemically prepared 112945-52-5

