

# ChemShield 1680 Resin

# (Part A)

Safety Data Sheet (SDS)

ChemTel 24 Hr. US Emergency Number:

ChemTel 24 Hr. Worldwide Emergency Number:

**Emergency Contact:** 

+1 (800) 255-3924

+1 (813) 248-0585

# **Section 1 - Product and Company Identification**

Trade Name: ChemShield 1680 Resin (All Versions) Product Code: 1680-030-NU1A-01-RES

Company:

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

Product Use: Coatings Not Recommended For: None Identified

# **Section 2 - Hazards Identification**

### **GHS Ratings:**

Skin 2 Reversible adverse effects in dermal tissue, Draize score: >= 2.3 < 4.0 or

corrosion/irritation persistent inflammation

Serious eye 2A Eye irritant: Subcategory 2A, Reversible in 21 days

damage/eye irritation

Respiratory 1 Respiratory sensitizer

sensitization

Skin sensitization 1 Skin Sensitizer

Carcinogenicity 1A Known Human Carcinogen Based on human evidence

# **GHS Hazards:**

H315 Causes 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

H350 May cause cancer

#### **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

P285 In case of inadequate ventilation wear respiratory protection

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

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 If eye irritation persists, 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 %
Quartz	14808-60-7	40.00% - 50.00%
Bisphenol A diglycidyl ether resin	25068-38-6	20.00% - 30.00%
Epoxy Phenol Novalac Resin	28064-14-4	20.00% - 30.00%
Benzyl Alcohol	100-51-6	5.00% - 10.00%
1,4-Bis(2,3-epoxypropoxy)butane	2425-79-8	1.00% - 5.00%

# **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:** 203 C (398 F) LEL: 1.00 UEL: 13.00

**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/m3 / %SiO2+2 total dust TWA: 10 mg/m3 /%SiO2+2 respirable fraction	TWA: 0.025 mg/m3	Not Established
Bisphenol A diglycidyl ether resin 25068-38-6	Not Established	Not Established	Not Established
Epoxy Phenol Novalac Resin 28064-14-4	Not Established	Not Established	Not Established
Benzyl Alcohol 100-51-6	Not Established	Not Established	Not Established
1,4-Bis(2,3-epoxypropoxy) butane	Not Established	Not Established	Not Established

2425-79-8

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:

Odor: Not available **Appearance:** Liquid Vapor Pressure: 0.11 mm Hg Odor threshold: Not available Vapor Density: Not available Not available pH: Melting point: Density (g/cm3): 1.56 Not available Freezing point: Not available Solubility: Not available Boiling range:Not availableFlash point:203°C, 398°FEvaporation rate:Not availableFlammability:Not availableExplosive Limits:Not availablePartition coefficient (n-Not available

octanol/water):

Autoignition Not available Decomposition Not available

temperature: temperature:

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** 

Strong Reducing Agents

## 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**

### **Mixture Toxicity:**

Inhalation Toxicity LC50: 469mg/L

### **Component Toxicity:**

28064-14-4 Epoxy Phenol Novalac Resin

Oral LD50: 2,000 mg/kg (rat)

100-51-6 Benzyl Alcohol

Oral LD50: 1,620 mg/kg (Rat) Dermal LD50: 2,010 mg/kg (Rabbit) Inhalation LC50: 4 mg/L (I

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 (

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):

CAS Number Description % Weight Carcinogen Rating

14808-60-7 Quartz 40% - 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;

Bisphenol A diglycidyl ether resin LC50 3.1 mg/l fish 96h; EC50 2.1 mg/l water flea 48h; EC50 >11mg/l Algae

72h; LC50 >100mg/l bacteria 3h

Epoxy Phenol Novalac Resin LC50 10 mg/l fish 96h; EC50 10 mg/l water flea 48h

Benzyl Alcohol LC50 460 mg/l fish 96 h; EC50 360 ppm water flea 48 h; EC50 640 mg/l

algae 96 h; EC10 658 mg/l bacteria 16 h

1,4-Bis(2,3-epoxypropoxy)butane LC50 24 mg/l fish 96h; EC50 76 mg/l water daphnia 24h; EC50 160 mg/l

algae 72h

### **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:

Agency Proper Shipping Name UN Number Packing Group Hazard Class

DOT Non-Regulated NA NA NA

IATA No Data
IMDG No Data

# **Section 15 - Regulatory Information**

Additional regulatory listings, where applicable:

<u>Country</u> <u>Regulation</u> <u>All Components Listed</u>

**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:

No Data

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.

Date Revised: 2024-11-25 Revision #: 1