



# ChemShield 1633 Hardener

## (Part B)

### Safety Data Sheet (SDS)

#### Section 1 - Product and Company Identification

**Trade Name:** ChemShield 1633 Hardener (All Versions) **Product Code:** ChemShield 1633-000 WH4A

**Company:**

Wolverine Coatings Corporation  
5969 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	1B	Destruction of dermal tissue: Exposure < 1 hour Observation < 14 days, visible necrosis in at least one animal
Eye Corrosive	1	Serious eye damage: Irreversible damage 21 days after exposure, Draize score: Corneal opacity $\geq 3$ , Iritis > 1.5
Skin Sensitizer	1	Skin Sensitizer
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
Reproductive Toxin	1B	Presumed, Based on experimental animals

**GHS Hazards**

H314	Causes severe skin burns and eye damage
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H340	May cause genetic defects
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
P260	Do not breathe dust/fume/gas/mist/vapours/spray
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
P310	Immediately call a POISON CENTER or doctor/physician
P321	Specific treatment (see label)
P363	Wash contaminated clothing before reuse
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting
P302+P352	IF ON SKIN: Wash with soap and water
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 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  
 P333+P313 If skin irritation or a rash occurs: 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 %
Glass oxide	65997-17-3	30.00% - 40.00%
Benzyl Alcohol	100-51-6	20.00% - 30.00%
Cycloaliphatic amines		20.00% - 30.00%
Trade Secret		5.00% - 10.00%
Titanium Dioxide	13463-67-7	1.00% - 5.00%
4-tert-Butylphenol	98-54-4	1.00% - 5.00%
Trade Secret		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:** 109 C (228 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
Glass oxide 65997-17-3	PEL-TWA: 5 mg/m <sup>3</sup>	Not Established	Not Established
Benzyl Alcohol 100-51-6	Not Established	Not Established	Not Established
Cycloaliphatic amines	Not Established	Not Established	Not Established
Trade Secret	Not Established	Not Established	Not Established
Titanium Dioxide 13463-67-7	TWA: 15 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup>	Not Established
4-tert-Butylphenol 98-54-4	Not Established	Not Established	Not Established
Trade Secret	Not Established	Not Established	Not Established

**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>	1.0 mm Hg	<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>	1.36	<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>	108°C, 228°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 Acids  
 Strong Oxidizers  
 Strong Bases  
 Acid chlorides  
 Acid anhydrides  
 Carbon disulfide  
 Nitrates  
 Organic Acids  
 Mineral Acids  
 Peroxides  
 Sodium Hypochlorite

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

Carbon Dioxide, Carbon Monoxide  
 Biphenyls  
 Nitrogen Oxides  
 Ammonia

Hazardous polymerization will not occur.

## Section 11 - Toxicological Information

### Mixture Toxicity:

Oral Toxicity LD50: 4,415mg/kg  
 Dermal Toxicity LD50: 4,089mg/kg  
 Inhalation Toxicity LC50: 25mg/L

### Component Toxicity:

100-51-6      Benzyl Alcohol  
 Oral LD50: 1,620 mg/kg (Rat)    Dermal LD50: 2,010 mg/kg (Rabbit)    Inhalation LC50: 4 mg/L (Rat)

13463-67-7      Titanium Dioxide  
 Inhalation LC50: 7 mg/kg (Rat)

98-54-4      4-tert-Butylphenol  
 Oral LD50: 2,000 mg/kg (rat)

### Routes of Entry:

Inhalation      Skin Contact      Eye Contact      Ingestion

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

No Data

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):

<u>CAS Number</u>	<u>Description</u>	<u>% Weight</u>	<u>Carcinogen Rating</u>
None			No Data

## Section 12 - Ecological Information

### Component Ecotoxicity:

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
Cycloaliphatic amines	LC50 100 mg/l fish 96h; EC50 6.84 mg/l daphnia 48h; EC50 200 mg/l algae 72h
Trade Secret	LC50 87.6 mg/l fish 96h; EC50 15.2 mg/l water flea 48h; EC50 32.1 mg/l algae 72h; EC50 >1000 mg/l Bacteria 30h
Titanium Dioxide	LC50 >1000 mg/l fish 96h; EC50 >1000 mg/l water flea 48h; EC50 >100 mg/l algae 72h
4-tert-Butylphenol	LC50 5.14 mg/l fish 96h; EC50 4.8 mg/l water flea 48h; IC50 11.2 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:

<u>Agency</u>	<u>Proper Shipping Name</u>	<u>UN Number</u>	<u>Packing Group</u>	<u>Hazard Class</u>
DOT	Paint Related Material, Corrosive	3066	III	8
IATA	No Data			
IMDG	No Data			

## 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:

Titanium Dioxide 13463-67-7

#### 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:

Titanium Dioxide 13463-67-7

Trade Secret

Benzyl Alcohol 100-51-6

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

4-tert-Butylphenol 98-54-4

Titanium Dioxide 13463-67-7

Trade Secret

Cycloaliphatic amines

Benzyl Alcohol 100-51-6

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

- 4-tert-Butylphenol 98-54-4
- Titanium Dioxide 13463-67-7
- Trade Secret
- Cycloaliphatic amines
- Benzyl Alcohol 100-51-6

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

- None

**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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