



# HybriShield 2101 Resin

(Part A)

Safety Data Sheet (SDS)

## Section 1 - Product and Company Identification

**Trade Name:** HybriShield 2101 Resin (All Versions)

**Product Code:** HybriShield 2101-008 WH2A Resin

**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:**

Flammable Liquid	2	Flash point < 23°C and initial boiling point > 35°C (95°F)
Inhalation Toxicity	Acute	Gases >100+<=500ppm, Vapors >0.5+<=2mg/l, Dusts &
	Tox. 2	Mists>0.05+<=0.5mg/l
Skin Corrosive	3	Reversible adverse effects in dermal tissue, Draize score: >= 1.5 < 2.3
Carcinogen	2	Limited evidence of human or animal carcinogenicity

**GHS Hazards**

H225	Highly flammable liquid and vapour
H316	Causes mild skin irritation
H330	Fatal if inhaled
H351	Suspected of causing cancer

**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
P271	Use only outdoors or in a well-ventilated area
P280	Wear protective gloves/protective clothing/eye protection/face protection
P281	Use personal protective equipment as required
P284	Wear respiratory protection
P310	Immediately call a POISON CENTER or doctor/physician
P320	Specific treatment is urgent (see label)
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
P308+P313	IF exposed or concerned: Get medical advice/attention
P332+P313	If skin irritation occurs: Get medical advice/attention
P370+P378	In case of fire: Use carbon dioxide, alcohol-resistant foam, dry chemical, dry sand, or water fog for extinction

P405  
P403+P233  
P403+P235  
P501

Store locked up  
Store in a well ventilated place. Keep container tightly closed  
Store in a well ventilated place. Keep cool  
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 %
Titanium Dioxide	13463-67-7	30.00% - 40.00%
Ethyl 3-ethoxypropionate	763-69-9	10.00% - 20.00%
Trade Secret 105		5.00% - 10.00%
Methyl Isobutyl Ketone	108-10-1	1.00% - 5.00%
Xylene	1330-20-7	0.10% - 1.00%
Ethylbenzene	100-41-4	0.00% - 0.10%

### 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:** 14 C (57 F) LEL: 1.00 UEL: 8.00

**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
Titanium Dioxide 13463-67-7	TWA: 15 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup>	Not Established
Ethyl 3-ethoxypropionate 763-69-9	Not Established	Not Established	Not Established
Trade Secret 105	Not Established	Not Established	Not Established
Methyl Isobutyl Ketone 108-10-1	TWA: 205 mg/m <sup>3</sup> ; STEL: 300 mg/m <sup>3</sup>	STEL: 75ppm; TWA (TLV): 20 ppm	Not Established
Xylene 1330-20-7	Not Established	TWA: 100 ppm	Not Established
Ethylbenzene 100-41-4	TWA: 435 mg/m <sup>3</sup>	TWA: 20 ppm	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> 4.2 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> 1.38	<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> 14 C, 57 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 Bases  
Strong Acids

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

Carbon Dioxide, Carbon Monoxide

Hazardous polymerization will not occur.

## Section 11 - Toxicological Information

### Mixture Toxicity:

Inhalation Toxicity LC50: 0mg/L

### Component Toxicity:

13463-67-7	Titanium Dioxide Inhalation LC50: 7 mg/kg (Rat)
763-69-9	Ethyl 3-ethoxypropionate Oral LD50: 5,000 mg/kg (Rat - male) Dermal LD50: 4,680 mg/kg (Rabbit - female) Inhalation
108-10-1	Methyl Isobutyl Ketone Oral LD50: 2,080 mg/kg (rat) Inhalation LC50: 16 mg/m3 (rat)
1330-20-7	Xylene Oral LD50: 4,300 mg/kg (rat) Dermal LD50: 1,700 mg/kg (rabbit) Inhalation LC50: 5,000 ppr
100-41-4	Ethylbenzene Oral LD50: 3,500 mg/kg (rat) Inhalation LC50: 17 mg/L (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>
100-41-4	Ethylbenzene	0.0 to 0.1%	Ethylbenzene:
108-10-1	Methyl Isobutyl Ketone	1 to 5%	Methyl Isobutyl Ketone: Suspected of causing cancer.
64742-94-5	Trade Secret 105	5 to 10%	Trade Secret 105:

## Section 12 - Ecological Information

### Component Ecotoxicity:

Titanium Dioxide	LC50 >1000 mg/l fish 96h; EC50 >1000 mg/l water flea 48h; EC50 >100 mg/l algae 72h
Ethyl 3-ethoxypropionate	LC50 55.3 mg/l fish 96h; EC50 785 mg/l water flea 48h; EC50 >114.86 mg/l algae 72h

Trade Secret 105	LC50 41 mg/l fish 96h; EC50 0.95 mg/l water flea 48h; EC50 1 mg/l algae
Methyl Isobutyl Ketone	LC50 480 mg/l fish 48h; EC50 3623 mg/l water flea 24h; EC50 2000 mg/l algae 48h
Xylene	LC50 2 mg/l fish 96h; EC50 75.49 mg/l water flea 24h; EC50 72 mg/l algae 14d
Ethylbenzene	LC50 5.1 mg/l fish 96h; EC50 2.4 mg/l water flea 96h; EC50 4.9 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	1263	II	3
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:

- Ethylbenzene 100-41-4
- Methyl Isobutyl Ketone 108-10-1
- 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:

- Ethylbenzene 100-41-4
- Xylene 1330-20-7
- Methyl Isobutyl Ketone 108-10-1
- Titanium Dioxide 13463-67-7

**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
- Xylene 1330-20-7
- Methyl Isobutyl Ketone 108-10-1
- Ethyl 3-ethoxypropionate 763-69-9
- Titanium Dioxide 13463-67-7

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

- Ethylbenzene 100-41-4
- Xylene 1330-20-7
- Methyl Isobutyl Ketone 108-10-1
- Ethyl 3-ethoxypropionate 763-69-9
- Titanium Dioxide 13463-67-7

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

Ethylbenzene 100-41-4

Xylene 1330-20-7

Methyl Isobutyl Ketone 108-10-1

**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.

Date revised: 2019-11-25

Revision #: 1