

# ChemShield 1731 Hardener

# (Part B)

Safety Data Sheet (SDS)

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

Trade Name: ChemShield 1731 Hardener (All Versions Product Code: ChemShield 1731-125 NU2A-01 Hardener

Company:

Wolverine Coatings Corporation

5969 Highway 221 Roebuck, SC 29376

+1 (864) 587-3144

Product Use: Coatings

**Emergency Contact:** 

ChemTel 24 Hr. US Emergency Number:

+1 (800) 255-3924

ChemTel 24 Hr. Worldwide Emergency Number:

+1 (813) 248-0585

Not recommended for: None Identified

#### **Section 2 - Hazards Identification**

# **GHS Ratings:**

Flammable Liquid 4 Flash point >= 60°C (140°F) and <= 93°C (200°F)

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 >= 3, Iritis > 1.5

Skin Sensitizer 1 Skin Sensitizer

Carcinogen 1A Known Human Carcinogen Based on human evidence

Aquatic toxicity NONE

#### **GHS Hazards**

H227 Combustible liquid

H314 Causes severe skin burns and eye damage

H317 May cause an allergic skin reaction

H318 Causes serious eye damage

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 P210 Keep away from heat/sparks/open flames/hot surfaces – No smoking

P235 Keep cool

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

P370+P378 In case of fire: Use carbon dioxide, alcohol-resistant foam, dry chemical, dry sand,

or water fog for extinction

P405 Store locked up

P403+P235 Store in a well ventilated place. Keep cool

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	20.00% - 30.00%
Benzyl Alcohol	100-51-6	20.00% - 30.00%
Methylene oxide	135108-88-2	10.00% - 20.00%
Glass oxide	65997-17-3	5.00% - 10.00%
Trade Secret		1.00% - 5.00%
Trade Secret		1.00% - 5.00%
Organic acid		1.00% - 5.00%
Trade Secret		1.00% - 5.00%
Methylenebiscyclohexanamine, 4,4'-	1761-71-3	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:** 103 C (218 F) LEL: 1.00 UEL: 73.00

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
Benzyl Alcohol 100-51-6	Not Established	Not Established	Not Established
Methylene oxide 135108-88-2	Not Established	Not Established	Not Established
Glass oxide 65997-17-3	PEL-TWA: 5 mg/m3	Not Established	Not Established
Trade Secret	Not Established	Not Established	Not Established
Trade Secret	Not Established	Not Established	Not Established
Organic acid	Not Established	Not Established	Not Established
Trade Secret	TLV-TWA: 15 mg/m3(total particles), 5 mg/m3 (respirable particles)	TLV-TWA: 10 mg/m3 (total particles), 3 mg/m3 (respirable particles)	Not Established
Methylenebiscyclohexana mine, 4,4'-	Not Established	Not Established	Not Established

1761-71-3

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:

Appearance:	Liquid	Odor:	Not available
Vapor Pressure:	20.7 mm Hg	Odor threshold:	Not available
Vapor Density:	Not available	pH:	Not available
Density (g/cm3):	1.35	Melting point:	Not available
Freezing point:	Not available	Solubility:	Not available
Boiling range:	Not available	Flash point:	103°C, 218°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:

Caustic Soda and other Strong Alkalies

Strong Oxidizers Acid chlorides Acid anhydrides

Strong Acids

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

Carbon Dioxide, Carbon Monoxide

Biphenyls

Nitrogen Oxides

Hazardous polymerization will not occur.

#### **Section 11 - Toxicological Information**

#### **Mixture Toxicity:**

Inhalation Toxicity LC50: 24mg/L

#### **Component Toxicity:**

100-51-6 Benzyl Alcoho

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

1761-71-3 Methylenebiscyclohexanamine, 4,4'-

Oral LD50: 380 mg/kg (rat) Dermal LD50: 1,000 mg/kg (rabbit)

# 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):

<u>CAS Number</u> <u>Description</u> <u>% Weight</u> <u>Carcinogen Rating</u>

14808-60-7 Quartz 20 to 30% 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;

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

Trade Secret LC50 87.6 mg/l fish 96h; EC50 15.2 mg/l water flea 48h; EC50 32.1 algae

72h; EC50 >1000 mg/l Bacteria 30h

Trade Secret LC50 934 mg/l fish 96h; EC50 331 mg/l water flea 48h; EC50 1000 mg/l

algae 72h; EC50 43 mg/l bacteria 5.75h

Methylenebiscyclohexanamine, 4,4'- LC50 67.8 mg/l fish 96h; EC50 9.24 mg/l water flea 48h; EC50 200 mg/l

algae 72h; EC50 156 mg/l bacteria 30m

#### **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:

Paint Related Material, Corrosive

Agency Proper Shipping Name UN Number Packing Group Hazard Class

3066

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DOT IATA IMDG

ΔΤΔ

**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:

Methylene oxide 135108-88-2

Quartz 14808-60-7

# Materials not included on the Canada DSL inventory:

- None

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

Trade Secret

Methylene oxide 135108-88-2 Benzyl Alcohol 100-51-6 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:

Methylenebiscyclohexanamine, 4,4'- 1761-71-3

Trade Secret
Trade Secret

Methylene oxide 135108-88-2 Benzyl Alcohol 100-51-6 Quartz 14808-60-7

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

Methylenebiscyclohexanamine, 4,4'- 1761-71-3

Trade Secret Trade Secret

Methylene oxide 135108-88-2 Benzyl Alcohol 100-51-6

Quartz 14808-60-7

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

Methylene oxide 135108-88-2

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

- None

<u>Country</u> <u>Regulation</u>

**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