

VersaHard 9590 Hardener (Part B)

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: VersaHard 9590 Hardener (All Versions) Product Code: 9590-000-CL0A-01-HAR

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:

| Acute Toxicity - Inhalation | 4 | Gases>2500+<=20000ppm, Vapors>10+<=20mg/l, Dusts&mists>1+<=5mg/l |
|---|----|--|
| Skin corrosion/irritation | 1B | Destruction of dermal tissue: Exposure < 1 hour Observation < 14 days, visible necrosis in at least one animal |
| Serious eye damage/eye irritation | 1 | Serious eye damage: Irreversible damage 21 days after exposure, Draize score: Corneal opacity >= 3, Iritis > 1.5 |
| Respiratory sensitization | 1 | Respiratory sensitizer |
| Skin sensitization | 1 | Skin Sensitizer |
| Germ cell mutagenicity | 2 | Suspected/Possible: May include heritable mutations in human germ cells, Positive evidence from tests in mammals and somatic cell tests, In vivo somatic genotoxicity supported by in vitro mutagenicity |
| Reproductive toxicity | 2 | Human or animal evidence possibly with other information |
| Acute aquatic toxicity | C3 | |
| HS Hazards: | | |

<u>G</u>

| H314 | Causes severe skin burns and eye damage |
|------|---|
| H317 | May cause an allergic skin reaction |
| H318 | Causes serious eye damage |
| H332 | Harmful if inhaled |
| H334 | May cause allergy or asthma symptoms or breathing difficulties if inhaled |
| H341 | Suspected of causing genetic defects |
| H361 | Suspected of damaging 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 |
| P271 | Use only outdoors or in a well-ventilated area |
| 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 P310 Immediately call a POISON CENTER or doctor/physician Call a POISON CENTER or doctor/physician if you feel unwell P312 P321 Specific treatment (see label) Wash contaminated clothing before reuse P363 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 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable P304+P340 for breathing 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 P333+P313 If skin irritation or a rash occurs: 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 % |
|--|------------|------------------------|
| Nonylphenol | 84852-15-3 | 30.00% - 40.00% |
| alpha-(2-Aminomethylethyl)-omega-(2-aminomethylethoxy)- poly(oxy(methyl-1,2-ethanediyl)) | 9046-10-0 | 30.00% - 40.00% |
| TOFA, reaction products with TEPA | 68953-36-6 | 5.00% - 10.00% |
| Trade Secret | | 1.00% - 5.00% |
| 1-(2-Aminoethyl)piperazine | 140-31-8 | 1.00% - 5.00% |
| Phenol, 4,4'-(1-methylethylidene)bis- | 80-05-7 | 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: 136 C (277 F) LEL: 1.00 UEL: 9.00

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 |
|--|----------------------|-----------------------|-----------------------|
| Nonylphenol 84852-15-3 | Not Established | Not Established | Not Established |
| alpha-(2- Aminomethylethyl)-omega- (2-aminomethylethoxy)- poly(oxy(methyl-1,2- ethanediyl)) 9046-10-0 | Not Established | Not Established | Not Established |
| TOFA, reaction products with TEPA 68953-36-6 | Not Established | Not Established | Not Established |
| Trade Secret | Not Established | TLV-TWA: 1 ppm | Not Established |
| 1-(2-Aminoethyl)piperazine 140-31-8 | Not Established | Not Established | Not Established |
| Phenol, 4,4'-(1- methylethylidene)bis- | Not Established | Not Established | Not Established |

80-05-7

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:

Odor: Not available Appearance: Liquid Odor threshold: Not available Vapor Pressure: 0.44 mm Hg Vapor Density: Not available Not available Density (g/cm3): 0.96 Melting point: Not available Freezing point: Solubility: Not available Not available 136°C, 277°F Boiling range: Not available Flash point: **Evaporation rate:** Not available Flammability: Not available **Explosive Limits:** Partition coefficient (n-Not available Not available

octanol/water):

AutoignitionNot availableDecompositionNot 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

Carbon disulfide

Strong Acids

Strong Bases

Organic Acids

Mineral Acids

Sodium Hypochlorite

Peroxides

Nitrous acid

Nitrous oxide

Nitrosating Agents

Galvanized Surfaces

This mixture is likely to exhibit the following combustion products:

Nitric Acid

Ammonia

Carbon Dioxide, Carbon Monoxide

Nitrosamine

Hazardous polymerization will not occur.

Section 11 - Toxicological Information

Mixture Toxicity:

Oral Toxicity LD50: 2,156mg/kg Dermal Toxicity LD50: 2,643mg/kg Inhalation Toxicity LC50: 2mg/L

Component Toxicity:

84852-15-3 Nonylphenol

Oral LD50: 1,412 mg/kg (Rat) Dermal LD50: 2,031 mg/kg (Rabbit)

9046-10-0 alpha-(2-Aminomethylethyl)-omega-(2-aminomethylethoxy)- poly(oxy(methyl-1,2-ethanediyl))

Oral LD50: 2,885 mg/kg (rat) Dermal LD50: 2,980 mg/kg (rabbit) Inhalation LC50: 1 mg/L (re

68953-36-6 TOFA, reaction products with TEPA

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

Trade Secret

Oral LD50: 1,080 mg/kg (rat) Dermal LD50: 1,090 mg/kg (rabbit) Inhalation LC50: 0 mg/L (re

140-31-8 1-(2-Aminoethyl)piperazine

Oral LD50: 2,097 mg/kg (rat) Dermal LD50: 866 mg/kg (rabbit)

80-05-7 Phenol, 4,4'-(1-methylethylidene)bis-

Oral LD50: 5,000 mg/kg (rat) Inhalation LC50: 170 mg/m3 (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:

Nonylphenol LC50 0.209 mg/l fish 96h; EC50 0.0844 mg/l water flea 48h

alpha-(2-Aminomethylethyl)-omega-(2-LC50 772.14 mg/l fish 96h; EC50 418.34 mg/l Water Flea 48h; EC50 15

aminomethylethoxy)- poly(oxy(methyl-mg/l algae 72h; EC50 750 mg/l Bacteria 3h

1,2-ethanediyl))

Trade Secret LC50 1014 mg/l fish 96h

1-(2-Aminoethyl)piperazine LC50 2190 mg/l fish 96h; EC50 58 mg/l water flea 48h; EC50 495 mg/l

algae 72h; EC50 511 mg/l bacteria 2h

Phenol, 4,4'-(1-methylethylidene)bis- LC50 4.6 mg/l fish 96h; EC50 10.2 mg/l water flea 48h; EC50 3.1 mg/l

algae 96h

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 Proper Shipping Name</u> <u>UN Number Packing Group Hazard Class</u>

DOT Paint Related Material, Corrosive 3066 III 8

IATA

IMDG

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.

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