

Section 1 - Product and Company Identification

Trade Name: BondTite 1114 Hardener (All Versions)

Product Code: BondTite 1114-000 NEU Hardener

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:

Inhalation Toxicity	Acute Tox. 4	Gases >2500+<=5000ppm, Vapors >10+<=20mg/l, Dusts & Mists>1+<=5mg/l
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
Mutagen	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
Carcinogen	2	Limited evidence of human or animal carcinogenicity
Reproductive Toxin	2	Human or animal evidence possibly with other information
Aquatic toxicity	C3	Acute toxicity > 10.0 but <= 100.0 mg/l and lack of rapid degradability and log Kow >= 4 unless BCF < 500 and unless chronic toxicity > 1 mg/l

GHS Hazards

H314	Causes severe skin burns and eye damage
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H332	Harmful if inhaled
H341	Suspected of causing genetic defects
H351	Suspected of causing cancer
H361	Suspected of damaging fertility or the unborn child
H412	Harmful to aquatic life with long lasting effects

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
P273	Avoid release to the environment
P280	Wear protective gloves/protective clothing/eye protection/face protection

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
alpha-(2-Aminomethylethyl)-omega-(2-aminomethylethoxy)-poly(oxy(methyl-1,2-ethanediyl)) 9046-10-0	Not Established	Not Established	Not Established
Nonylphenol 84852-15-3	Not Established	Not Established	Not Established
Trade Secret	Not Established	TLV-TWA: 1 ppm	Not Established
Phenol, 4,4'-(1-methylethylidene)bis- 80-05-7	Not Established	Not Established	Not Established
Ethylbenzene 100-41-4	TWA: 435 mg/m3	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:

Appearance: Liquid	Odor: Not available
Vapor Pressure: 0.86 mm Hg	Odor threshold: Not available
Vapor Density: Not available	pH: Not available
Density (g/cm3): 0.96	Melting point: Not available
Freezing point: Not available	Solubility: Not available
Boiling range: Not available	Flash point: 130 C, 266 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:

Strong Oxidizers
Carbon disulfide
Strong Acids
Strong Bases

This mixture is likely to exhibit the following combustion products:

No Data

Hazardous polymerization will not occur.

Section 11 - Toxicological Information

Mixture Toxicity:

Oral Toxicity LD50: 2,230mg/kg
Dermal Toxicity LD50: 2,640mg/kg
Inhalation Toxicity LC50: 1mg/L

Component Toxicity:

9046-10-0 alpha-(2-Aminomethylethyl)-omega-(2-aminomethylethoxy)- poly(oxy(methyl-1,2-ethanediy))
Oral LD50: 2,885 mg/kg (rat) Dermal LD50: 2,980 mg/kg (rabbit) Inhalation LC50: 1 mg/L (rat)

84852-15-3 Nonylphenol
Oral LD50: 1,412 mg/kg (Rat) Dermal LD50: 2,031 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)

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	0.1 to 1.0%	Ethylbenzene:

Section 12 - Ecological Information

Component Ecotoxicity:

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))

Nonylphenol	LC50 0.209 mg/l fish 96h; EC50 0.0844 mg/l water flea 48h
Trade Secret	LC50 1014 mg/l fish 96h
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
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 Related Material, Corrosive	3066	III	8
IATA				
IMDG				

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

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

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
Phenol, 4,4'-(1-methylethylidene)bis- 80-05-7
Trade Secret
Nonylphenol 84852-15-3
alpha-(2-Aminomethylethyl)-omega-(2-aminomethylethoxy)- poly(oxy(methyl-1,2-ethanediyl)) 9046-10-0

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

