

BondTite 1101 Hardener

(Part B)

Safety Data Sheet (SDS)

Section 1 - Product and Company Identification

Trade Name: BondTite 1101 Hardener (All Versions)

Company:

Wolverine Coatings Corporation 5969 Highway 221 Roebuck, SC 29376 +1 (864) 587-3144 Product Code: BondTite 1101-000 CL2A Hardener

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 Oral Toxicity | 4 Acute Tox. 4 | Flash point >= 60°C (140°F) and <= 93°C (200°F) Oral>300+<=2000mg/kg | |
|-----------------------------------|--|--|--|
| 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 | |
| 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 | | | |
| H227 | Comb | ustible liquid | |
| H302 | Harmful if swallowed | | |
| H314 | Causes severe skin burns and eye damage | | |
| H317 | May cause an allergic skin reaction | | |
| H318 | Causes serious eye damage | | |
| H341 | Suspected of causing genetic defects | | |
| 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 | | 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 | | breathing dust/fume/gas/mist/vapours/spray | |
| P264 | | thoroughly after handling | |
| P270 | Do not | eat, drink or smoke when using this product | |
| P272 | Contar | ninated work clothing should not be allowed out of the workplace | |

| SDS. | BondTite | 1101 | Hard | lener |
|------|----------|------|-------|-------|
| 303. | Donume | | Ilaiu | lener |

| P273 | Avoid release to the environment |
|----------------|--|
| 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) |
| P330 | Rinse mouth |
| P363 | Wash contaminated clothing before reuse |
| P301+P312 | IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell |
| 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 % |
|---------------------------------------|------------|------------------------|
| Isophorone Diamine | 2855-13-2 | 40.00% - 50.00% |
| Benzyl Salicylate | 118-58-1 | 30.00% - 40.00% |
| Bisphenol A diglycidyl ether resin | 25068-38-6 | 5.00% - 10.00% |
| 2,4,6-Tris(dimethylaminomethyl)phenol | 90-72-2 | 1.00% - 5.00% |
| Nonylphenol | 84852-15-3 | 1.00% - 5.00% |
| Trade Secret | | 1.00% - 5.00% |
| Trade Secret | | 1.00% - 5.00% |
| Dioctyl terephthalate | 6422-86-2 | 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

SDS: BondTite 1101 Hardener

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:138 C (281 F)LEL: 1.00UEL: 5.00Extinguishing 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.

| Chemical Name / CAS # | OSHA Exposure Limits | ACGIH Exposure Limits | Other Exposure Limits |
|--|----------------------|-----------------------|-----------------------|
| Isophorone Diamine 2855-13-2 | Not Established | Not Established | Not Established |
| Benzyl Salicylate 118-58-1 | Not Established | Not Established | Not Established |
| Bisphenol A diglycidyl ether resin 25068-38-6 | Not Established | Not Established | Not Established |
| 2,4,6-Tris (dimethylaminomethyl) phenol 90-72-2 | Not Established | Not Established | Not Established |
| Nonylphenol 84852-15-3 | Not Established | Not Established | Not Established |
| Trade Secret | Not Established | Not Established | Not Established |

Section 8 - Exposure Controls / Personal Protection

| Trade Secret | Not Established | Not Established | Not Established |
|------------------------------------|-----------------|-----------------|-----------------|
| Dioctyl terephthalate 6422-86-2 | 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:

| Appearance: | Liquid | Odor: | Not available |
|---------------------------|---------------|--|---------------|
| Vapor Pressure: | 0.23 mm Hg | Odor threshold: | Not available |
| Vapor Density: | Not available | pH: | Not available |
| Density (g/cm3): | 1.03 | Melting point: | Not available |
| Freezing point: | Not available | Solubility: | Not available |
| Boiling range: | Not available | Flash point: | 138°C, 281°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 Strong Acids **Organic Acids Mineral Acids** Peroxides Sodium Hypochlorite Strong Bases Strong Reducing Agents Amines

This mixture is likely to exhibit the following combustion products:

Ammonia Carbon Dioxide, Carbon Monoxide Nitrogen Oxides

Hazardous polymerization will not occur.

Mixture Toxicity:

Oral Toxicity LD50: 1,570mg/kg Dermal Toxicity LD50: 4,625mg/kg Inhalation Toxicity LC50: 25mg/L

Component Toxicity:

| 2855-13-2 | Isophorone Diamine Oral LD50: 1,030 mg/kg (rat) Dermal LD50: 2,000 mg/kg (rat) Inhalation LC50: 5 mg/L (rat) |
|-------------------|---|
| 118-58-1 | Benzyl Salicylate Oral LD50: 2,227 mg/kg (rat) |
| 90-72-2 | 2,4,6-Tris(dimethylaminomethyl)phenol Oral LD50: 2,169 mg/kg (rat) |
| 84852-15-3 | Nonylphenol Oral LD50: 1,412 mg/kg (Rat) Dermal LD50: 2,031 mg/kg (Rabbit) |
| 6422-86-2 | Dioctyl terephthalate Oral LD50: 5,000 mg/kg (rat) |
| utoo of Entry | |

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):

| 0 1 | cription <u>% Weight</u> Carcinogen Rating No Data | | |
|-------------------------------------|---|--|--|
| Section 12 - Ecological Information | | | |
| Component Ecotoxicity: | | | |
| Isophorone Diamine | LC50 110 mg/l fish 96h; ErC50 50 mg/l algae 72h; EC10 1120 mg/l bacteria 18h | | |
| Benzyl Salicylate | LC50 1.03 mg/l fish 96h | | |
| Bisphenol A diglycidyl ether re | n LC50 3.1 mg/l fish 96h; EC50 2.1 mg/l water flea 48h; EC50 >11mg/l Algae 72h; LC50 >100mg/l bacteria 3h | | |
| 2,4,6-Tris(dimethylaminomethy | phendlC50 175 mg/l fish 96h; EC50 84 mg/l algae 72h | | |
| Nonylphenol | LC50 0.209 mg/l fish 96h; EC50 0.0844 mg/l water flea 48h | | |
| 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 | | |
| Dioctyl terephthalate | LC50 >984 mg/l fish 96h; EC50 0.0014 mg/l water flea 48h; EC50 >0.86 mg/l algae 72h; EC50 >10 mg/l bacteria 3h | | |

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:

| Agency | Proper Shipping Name |
|--------|-----------------------------------|
| DŌT | Paint Related Material, Corrosive |
| IATA | |
| IMDG | |

UN Number
3066Packing Group
IIIHazard Class
8

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:

- None

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:

- None

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

Dioctyl terephthalate 6422-86-2 Trade Secret Nonylphenol 84852-15-3 2,4,6-Tris(dimethylaminomethyl)phenol 90-72-2 Bisphenol A diglycidyl ether resin 25068-38-6

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

Dioctyl terephthalate 6422-86-2 Trade Secret Nonylphenol 84852-15-3 2,4,6-Tris(dimethylaminomethyl)phenol 90-72-2 Bisphenol A diglycidyl ether resin 25068-38-6

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

<u>Country</u>

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

SDS: BondTite 1101 Hardener