

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	

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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

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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
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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.

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