

SAFETY DATA SHEET

Rev. 1, 10/25/2016

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: OlyBond500 Part 1 (SpotShot Cartridge)

Supplier: GAF. 24-hour Emergency Response Number:

1 Campus Drive Chemtrec: 800-424-9300

Parsippany, NJ 07054

Phone: 1-800-766-3411

Product Use(s): One component of a two-component polyurethane system

2. HAZARDS IDENTIFICATION

Classifications: Acute Toxicity, Inhalation: Hazard Category 4

Respiratory Sensitization: Hazard Category 1

Skin Sensitization: Hazard Category 1 Skin Irritation: Hazard Category 2 Eye Irritation: Hazard Category 2A

Specific Target Organ Toxicity, Single Exposure: Hazard Category 3 Specific Target Organ Toxicity, Repeated Exposure: Hazard Category 2

Symbols: Health Hazard

Exclamation Point





Signal Word: Danger

Hazard May be harmful if inhaled, and may cause allergy or asthma symptoms,

Statements: breathing difficulties, and/or respiratory irritation.

May cause an allergic skin reaction.

May cause skin irritation and serious eye irritation.

May cause damage to the respiratory system and/or skin through prolonged or

repeated exposure.

Precautionary Do not breathe mist, spray, or vapors.

Statements: Use only outdoors or in a well-ventilated area.

In case of inadequate ventilation wear proper respiratory protection.

Wear protective gloves and eye/face protection. Wash hands and forearms thoroughly after handling. Get medical advice/attention if you feel unwell.

IF INHALED: If breathing is difficult, remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms or if you feel

unwell, call a doctor or Poison Control Center.

IF ON SKIN: Wash with plenty of water. Take off contaminated clothing and wash before reuse. Contaminated work clothing must not be allowed out of the workplace. If skin irritation or rash occurs, get medical advice/attention.

2. HAZARDS IDENTIFICATION (continued)

Precautionary Statements: (continued)

IF IN EYES: Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice/attention.

Store locked up in a well-ventilated place. Keep container tightly closed. Dispose of contents/container in accordance with applicable regulations. The acute toxicities of <10% of the product's ingredients are unknown.

EMERGENCY OVERVIEW

Overexposure to components of this product by inhalation may cause respiratory irritation, asthma-like symptoms, and/or respiratory sensitization. The supplier has conducted an exposure assessment under representative working conditions, and has determined that exposure in excess of the OSHA Permissible Exposure Limit is not likely when the product is used in an outdoor environment in accordance with instructions and safe work practices.

Skin contact may cause irritation and/or allergy-like symptoms, and eye contact may cause severe irritation. Avoid skin and eye contact, using proper personal protective equipment as needed. See Section #7 for recommendations on proper handling and work practices, and Section #8 for recommendations on personal protective equipment.

3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Ingredient</u>	CAS Number	<u>Percentage</u>	<u>Impurities</u>
Diphenylmethane Diisocyanate Mixed Isomers	26447-40-5	<10	None known
4,4'-Methylene Bisphenyl Isocyanate	101-68-8	38 <u>+</u> 1	None known
Polymeric Isocyanates	9016-87-9	<55	None known

FIRST AID MEASURES

Hold eyes open and flush with lukewarm water for at least 15 minutes. Seek Eyes:

immediate medical assistance.

Skin: Remove contaminated clothing. Wash affected areas with soap and water for

at least five minutes. If irritation persists or a rash occurs, seek medical

attention. Launder or dry-clean clothing before reuse.

Ingestion: DO NOT induce vomiting. If the subject is conscious, wash mouth and give 2 or

more cups of milk or water. Seek immediate medical assistance. Do not

attempt to give anything by mouth to an unconscious or convulsive person.

Inhalation: If signs and symptoms of respiratory toxicity are observed, remove subject from

area and seek immediate medical attention. Keep the subject warm and at rest. If necessary, administer oxygen or perform artificial respiration if necessary and

qualified personnel are available to do so.

Guidance for Physician or Center:

Inhalation exposure can irritate the respiratory tract and induce respiratory sensitization. Treatment of acute irritation and bronchial constriction should be Poison Control done according to symptoms. Eye contact can cause moderate to severe irritation. Skin contact can cause moderate irritation, and may elicit an allergic response among susceptible individuals. Treat eye and skin irritation or injury according to symptoms. Extended medical treatment may be necessary for

individuals exhibiting respiratory sensitization and/or skin disorders.

FIREFIGHTING MEASURES

Extinguishing Media: Water spray, carbon dioxide, dry chemical or chemical foam. DO

NOT use water jet.

Fire and Explosion

Hazards:

This product may ignite if exposed to sources of ignition at temperatures in excess of its flash point. If present in a fire or explosion, potential thermal decomposition byproducts include carbon monoxide, oxides of nitrogen, organic isocyanates, and hydrogen cyanide.

Firefighting Instructions: If fighting a fire in which this product is present, wear a self-contained

breathing apparatus with full-facepiece operated in pressure-demand

or other positive pressure mode.

ACCIDENTAL RELEASE MEASURES

Methods and Materials: Absorb spilled material with a sorbent such as sawdust or calcium

> silicate hydrate. When absorbed, transfer to an impervious container. Neutralize with solution of 8-10% sodium carbonate and 2% liquid detergent in water (10:1 ratio of solution to product). Do not seal container, as CO2 will be released. Neutralize in a well-ventilated area for at least 48 hours before sealing containers for disposal.

Personal Precautions: Avoid contact with skin, eyes, and mucous membranes. Wear

> appropriate personal protective equipment (see Section #8) during cleanup and decontamination. Restrict unauthorized personnel

during cleanup and disposal operations.

Environmental Precautions:

Prevent spills from entering sewers or contaminating soil.

HANDING AND STORAGE

Handling Precautions: Containers should be kept tightly closed to prevent contact with

> moisture and other chemicals. Do not reuse empty containers for any purpose. When handling the product, avoid contact with eyes, skin, and clothing, using protective equipment as needed. Do not use this product around children, and secure it away from children.

Work and Hygiene

Practices:

To prevent ingestion or contact following use of the product, wash hands and face before eating, drinking, applying cosmetics, or using tobacco. Remove contaminated clothing and protective equipment

before entering eating/drinking areas.

Keep containers tightly sealed during storage. Store in a dry, well-Storage Precautions:

ventilated area away from sources of ignition and incompatible materials (see Section #10). Recommended temperature range for

None

storage is 55-85°F. (12.8-29.4°C.).

EXPOSURE CONTROLS AND PERSONAL PROTECTION

Ingredients <u>Ingredient</u> OSHA PEL <u>ACGIH TLV</u> **Exposure Limits:**

Diphenylmethane Diisocyanate

Mixed Isomers

4,4'-Methylene Bisphenyl Isocyanate 0.02 ppm "C" 0.005 ppm TWA

Polymeric Isocyanates None None

None

EXPOSURE CONTROLS AND PERSONAL PROTECTION (continued)

Ingredients Biological

<u>Ingredient</u>

Biological Limit(s)

Limits:

Diphenylmethane Diisocyanate Mixed Isomers

No ACGIH BEIs or other biological limits

4,4'-Methylene Bisphenyl Isocyanate

No ACGIH BEIs or other biological limits

Polymeric Isocyanates

No ACGIH BEIs or other biological limits

Engineering Controls: Use appropriate ventilation (dilution or local exhaust) whenever natural ventilation is restricted or inadequate to maintain concentrations of all

components within their applicable standards.

Eye/Face Protection: Wear eye protection adequate to prevent eye contact with the product. Plastic-frame spectacles with side shields, chemical goggles, or a face shield are recommended. Do not wear contact lenses when working with

this product.

Skin Protection:

Wear protective gloves and clothing to prevent skin irritation or injury from contact with the product. Glove materials known to be effective against permeation by isocyanates include butyl rubber, nitrile rubber, and polychloroprene.

Respiratory Protection:

If an exposure level to a component exceeds an applicable standard, use a NIOSH-approved respirator of a class and configuration effective for protection from the component(s) generated. Where exposures exceed the OSHA Permissible Exposure Limit (PEL), an airline respirator or selfcontained breathing apparatus (SCBA) is recommended. Consult OSHA regulations (29CFR1910.134) and/or American National Standard Z88.2 (ANSI, New York, NY 10036, USA) for guidance.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: dark brown liquid

Odor: aromatic

Odor threshold: not determined

pH: not applicable

Melting point: not determined. Freezing point: not determined Boiling point: ≥200°F./93°C. Boiling range: not determined Flash Point: approx. 484°F./220°C. Autoignition Point: not determined

Flammability Class: IIIB

Lower Explosive Limit: not determined Upper Explosive Limit: not determined

Vapor pressure: not determined Vapor density: not determined Evaporation Rate: not determined

VOCs (per EPA Method 24): 11.00 grams/liter

Relative density (H2O): approx. 1.22

Solubility (H2O): reactive

Oil-water partition coefficient: not determined Decomposition temperature: not determined

Viscosity: 150-350 cps

10. STABILITY AND REACTIVITY

Stability: Stable

Reactivity: May react with water and incompatible materials

Hazardous Polymerization: May occur at temperatures >392°F./200°C.

Risk of Dangerous

None reasonably foreseeable

Reactions:

Incompatible Materials: Water, alcohols, acids, alkalis, and amines

Potential Decomposition Carbon monoxide, carbon dioxide, nitrogen oxides, isocyanates,

Byproducts: and hydrogen cyanide

11. TOXICOLOGICAL INFORMATION

Ingredients Toxicology Data	LD ₅₀ Oral	LD ₅₀ Dermal	LC ₅₀
Diphenylmethane Diisocyanate Mixed Isomers	>5,000 mg/kg (rat)	No data available	2,240 mg/m ³ for 1 hour (rat)
4,4'-Methylene Bisphenyl Isocyanate	>5,000 mg/kg (rat)	No data available	2,240 mg/m³ for 1 hour (rat)
Polymeric Isocyanates	No data available	No data available	No data available

Primary Route(s) of

Entry:

Inhalation; ingestion

Eye Hazards: This product may cause moderate to severe eye irritation.

Skin Hazards: This product may cause mild to moderate skin irritation and has the

potential to cause skin sensitization among susceptible individuals.

Ingestion Hazards: The product is nontoxic by ingestion, but ingestion may cause nausea,

vomiting, and/or gastrointestinal irritation.

Inhalation Hazards: Inhalation of toxicologically-significant quantities of ingredients is

unlikely when the product is used in a well-ventilated area and in

accordance with instructions.

Symptoms Related to

Overexposure:

Inhalation overexposure to isocyanates may cause respiratory

irritation, breathing difficulties, and asthma-like symptoms.

Delayed Effects from

Long Term

Overexposure:

Long-term inhalation overexposure to this product may result in

respiratory sensitization, which may be irreversible.

Carcinogenicity: A single inhalation study exposing rats to aerosolized polymeric 4,4'-

Methylene Bisphenyl Isocyanate identified a single malignant pulmonary tumor among 60 animals exposed at the highest exposure level. Observations of pulmonary fibrosis and other pathological anomalies in the test animals precluded definitive determination as to the cause(s) of the tumor. Epidemiological studies of humans occupationally exposed to the isocyanates in this product have found no strong association or consistent pattern with respect to

carcinogenicity.

Germ Cell Mutagenicity: No ingredients have been determined to be germ cell mutagens.

Reproductive Toxicity: No ingredients have been determined to be damaging to fertility or to

the unborn child.

11. TOXICOLOGICAL INFORMATION (continued)

Acute Toxicity LD_{50} (oral): no data available LD_{50} (dermal): no data available

LC₅₀: no data available

Interactive effects of components: no data available

12. ECOLOGICAL INFORMATION

Diphenylmethane Aquatic Toxicity to Fish: LC₅₀ >1,000 mg/l. for 96 h. (zebra fish)

Diisocyanate, Aquatic Toxicity to Invertebrates: EC₅₀ >1,000 mg/l. for 24 h. (daphnia)

Isomers and Aquatic Toxicity to Plants: EC₅₀ > 1,640 mg/l. for 72 h. (algae)

Homologues: Aquatic Toxicity to Microorganisms: EC₅₀ > 100 mg/l. for 3 h. (bacteria)

Toxicity to Terrestrial Organisms: NOEC=1,000 mg/kg for 14 d. (worms) No data available for Persistence and Degradability, Bioaccumulation

Potential, or Mobility in Soil.

Polymeric No data available for Aquatic Toxicity to Fish, Invertebrates, Plants, or

Isocyanates: Microorganisms, Toxicity to Terrestrial Organisms, Persistence and

Degradability, Bioaccumulation Potential, or Mobility in Soil.

Ozone Depletion This product neither contains nor is manufactured with any ingredients

Potential: known to deplete the ozone layer.

13. DISPOSAL CONSIDERATIONS

Do not discharge waste product into sanitary or storm sewers or allow it to contaminate soil. Empty containers should be decontaminated prior to disposal. Consult applicable Federal, State/Provincial, and local regulations.

14. TRANSPORTATION INFORMATION

Transport of the product is not regulated by USDOT, TDG (Canada), IATA, or IMO.

15. REGULATORY INFORMATION

United States Regulatory Information

TSCA Information: All ingredients of this product are listed in the TSCA Registry.

SARA Hazard Acute Health Hazard, Chronic Health Hazard, Reactivity Hazard

Classes:

EPCRA Section This product contains these ingredients in concentrations ≥1% (for

313 Notification: carcinogens ≥0.1%) regulated under Section 313 of the *Emergency Planning and Community Right-To-Know Act* of 1986 or 40 CFR 372:

1. 4,4'-Methylene Bisphenyl Isocyanate (CASRN 101-68-8)

2. Polymeric Isocyanantes (CASRN 9016-87-9)

CERCLA Under requirements of the Comprehensive Environmental Response, Information: Compensation, and Liability Act (CERCLA), 4,4'-Methylene Bisphenyl

Isocyanate (CASRN 101-68-8) has a *Reportable Quantity* of 5,000 lbs. Any spill or release above this *RQ* must be reported to the National

Response Center (800-424-8802).

Canadian Regulatory Information

This product has been classified in accordance with Canada's *Hazardous Products Regulations* (SOR/DORS/2015-15).

16. OTHER INFORMATION

Hazardous Materials
Information System
2*

(moderate hazard, (slight hazard)

(slight hazard)

(slight hazard)

(slight hazard)

(slight hazard)

(Legend): "*" indicating potential for chronic effects)

Note regarding PPE: GAF recommends use of protective eyewear and skin protection

(Personal Protection Index "B") as standard PPE for the anticipated conditions of use of this product. However, HMIS recommends that its ratings be used only in conjunction with a fully implemented HMIS program, and that specific PPE codes should be created by the user, who is familiar with the actual conditions under which the product is used. We cannot anticipate every condition of the product's use, and it is the user's responsibility to evaluate the hazards pertinent to its

specific operations, and to determine the specific PPE required.

National Fire <u>Health</u> <u>Flammability</u> <u>Reactivity</u> Protection Association 2 2 1

(NFPA) Ratings:

Revision Information: Date of Prior SDS: not applicable

DISCLAIMER

This information relates to the specific material designated and may not be valid for such material used on combination with any other materials or in any process. Such information is to the best of our knowledge and belief accurate and reliable as of the date compiled. However, no representation, warranty or guarantee, expressed or implied, is made as to its accuracy, reliability, or completeness. It is the user's responsibility to satisfy himself as to the suitability and completeness of such information for his particular use. We do not accept liability for any loss or damage that may occur from the use of this information. Nothing herein shall be construed as a recommendation for uses which infringe valid patents or as extending a license of valid patents.



SAFETY DATA SHEET

Rev. 1, 10/25/2016

1. PRODUCT AND COMPANY IDENTIFICATION

1 Campus Drive

Product Name: OlyBond500 Part 2 (SpotShot Cartridge)

Supplier: GAF 24-hour Emergency Response Number:

Chemtrec: 800-424-9300

Parsippany, NJ 07954

USA

Phone: 1-800-766-3411

Product Use(s): One component of a two-component polyurethane system

2. HAZARDS IDENTIFICATION

Classifications: Eye Irritation: Hazard Category 2B

Specific Target Organ Toxicity, Repeated Exposure: Hazard Category 2

Symbols: Health Hazard

Exclamation Point





Signal Word: Warning

Hazard May cause eye irritation.

Statements: May cause damage to the kidneys and/or gastrointestinal system through

prolonged or repeated exposure.

Precautionary Do not breathe mist, spray, or vapors.

Statements: Wash hands and forearms thoroughly after handling.

Get medical advice/attention if you feel unwell.

IF IN EYES: Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation

persists, get medical advice/attention.

Dispose of contents/container in accordance with applicable regulations.

EMERGENCY OVERVIEW

Eye contact with this product may cause irritation. Chronic ingestion may damage the kidneys and/or gastrointestinal system. There are no known serious health effects from inhalation or skin contact. See Section #7 for recommendations on proper handling and work practices, and Section #8 for recommendations on personal protective equipment.

This product is formulated to be mixed with another component (OlyBond 500 Spot Shot, Part 1) that, if handled improperly, may cause potentially serious health effects such as respiratory irritation, asthma-like symptoms, and/or respiratory sensitization. Do not handle or mix the two components together until you have read and understood that information in the *Safety Data Sheets* for both components.

COMPOSITION/INFORMATION ON INGREDIENTS

<u>Ingredient</u>	CAS Number	<u>Percentage</u>	<u>Impurities</u>
Diethylene Glycol	111-46-6	<10	None known
Dipropylene Glycol	25265-71-8	<10	None known

FIRST AID MEASURES

Eyes: Hold eyes open and flush with lukewarm water for at least 15 minutes. Seek

immediate medical assistance.

Skin: Remove contaminated clothing. Wash affected areas with soap and water for

at least five minutes. If irritation occurs or persists, seek medical attention.

Launder or dry-clean clothing before reuse.

DO NOT induce vomiting. If the subject is conscious, wash mouth and give 2 or Ingestion:

more cups of milk or water. Seek immediate medical assistance. Do not

attempt to give anything by mouth to an unconscious or convulsive person.

Inhalation: If signs and symptoms of respiratory toxicity are observed, remove subject from

> area and seek immediate medical attention. Keep the subject warm and at rest. If necessary, administer oxygen or perform artificial respiration if necessary and

qualified personnel are available to do so.

Guidance for Physician or

Center:

None of the components of this product are acutely toxic by ingestion or inhalation. Eye contact can cause mild to moderate irritation. Skin contact can Poison Control cause mild irritation. Ingestion is unlikely to occur in industrial use, but if ingestion occurs it may cause nausea, vomiting, and gastrointestinal irritation.

Chronic ingestion can cause kidney injury.

FIREFIGHTING MEASURES

Extinguishing Media: Water spray, carbon dioxide, dry chemical or chemical foam. DO

NOT use water jet.

Fire and Explosion

Hazards:

This product may ignite if exposed to sources of ignition at temperatures above its flash point. If present in a fire or explosion, potential thermal decomposition byproducts include carbon

monoxide, smoke, and irritant decomposition byproducts.

Firefighting Instructions: If fighting a fire in which this product is present, wear a self-

contained breathing apparatus with full-facepiece operated in

pressure-demand or other positive pressure mode.

6. ACCIDENTAL RELEASE MEASURES

Methods and Materials: Absorb spilled material with a sorbent such as

vermiculite, or calcium silicate hydrate. When absorbed, transfer

to an impervious container.

Personal Precautions: Avoid contact with skin, eyes, and mucous membranes. Wear

appropriate personal protective equipment (see Section #8) during

cleanup and decontamination.

Environmental Precautions: Prevent spills from entering sewers or contaminating soil.

7. HANDING AND STORAGE

Handling Precautions: Containers should be kept tightly closed to prevent contact with

moisture and other chemicals. Do not reuse empty containers for any purpose. When handling the product, avoid contact with eyes, skin, and clothing, using protective equipment as needed. Do not use this product around children, and secure it away from children.

Work and Hygiene

Practices:

To prevent ingestion or contact following use of the product, wash hands and face before eating, drinking, applying cosmetics, or using tobacco. Remove contaminated clothing and protective equipment

before entering eating/drinking areas.

Storage Precautions: Store containers tightly sealed in a dry, well-ventilated, area away

from incompatible materials (see Section #10). Recommended

temperature range for storage is 55-85°F. (12.8-29.4°C.).

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Ingredients Ingredient OSHA PEL ACGIH TLV
Exposure Limits: Diethylene Glycol None None

Dipropylene Glycol None None

Ingredients <u>Ingredient</u> <u>Biological Limit(s)</u>

Biological Limits: Diethylene Glycol No ACGIH BEIs or other biological limits

Dipropylene Glycol No ACGIH BEIs or other biological limits

Engineering Controls: Use appropriate ventilation (dilution or local exhaust) whenever this

product is used in conjunction with OlyBond 500 Spot Shot Part 1 in

conditions where natural ventilation is restricted.

Eye/Face Protection: Wear eye protection adequate to prevent eye contact with the product.

Plastic-frame spectacles with side shields, chemical goggles, or a face shield are recommended. Do not wear contact lenses when working with

this product.

Skin Protection: Wear protective gloves and clothing to prevent skin irritation or injury

from contact with the product. Glove materials known to be effective against permeation by this product include butyl rubber, nitrile rubber,

and polyvinyl alcohol.

Respiratory

Protection:

If an exposure level to a component exceeds an applicable standard, use a NIOSH-approved respirator of a class and configuration effective for protection from the component(s) generated. Consult OSHA regulations

(29CFR1910.134) and/or American National Standard Z88.2 (ANSI, New

York, NY 10036, USA) for guidance.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: red viscous liquid

Odor: mildly sweet

Odor threshold: not determined

pH: not determined

Melting point: not determined Freezing point: not determined Boiling point: not determined

9. PHYSICAL AND CHEMICAL PROPERTIES (continued)

Boiling range: not determined Flash Point: approx. 375°F./191°C. Autoignition Point: not determined

Flammability Class: IIIB

Lower Explosive Limit: not determined Upper Explosive Limit: not determined Vapor pressure: not determined

Vapor density: not determined Evaporation Rate: not determined

VOCs (per EPA Method 24): 11.00 grams/liter

Relative density (H₂O): approx. 1.02

Solubility (H2O): partial

Oil-water partition coefficient: not determined Decomposition temperature: not determined

Viscosity: 390-530 cps

10. STABILITY AND REACTIVITY

Stability: Stable

Reactivity: Polymerizes with isocyanate-containing substances

Hazardous Polymerization: Will not occur

Risk of Dangerous Reactions: None reasonably foreseeable

Incompatible Materials: Oxidizing agents

Potential Decomposition Carbon monoxide, carbon dioxide, smoke, and irritant

Byproducts: decomposition byproducts

11. TOXICOLOGICAL INFORMATION

Ingredients Toxicology Data	LD ₅₀ Oral	LD ₅₀ Dermal	<u>LC₅₀</u>
Diethylene Glycol	14,850 mg/kg (rat)	11,890 mg/kg (hamster)	No data available
Dipropylene Glycol	12,565 mg/kg (rat)	>20,000 mg/kg (rabbit)	No data available

Primary Route(s) of Entry: Inhalation; ingestion

Eye Hazards: This product may cause mild to moderate eye irritation.

Skin Hazards: This product may cause mild skin irritation. Irritation may be more

pronounced on abraded skin.

Ingestion Hazards: The product is nontoxic by ingestion, but ingestion may cause

nausea, vomiting, and/or gastrointestinal irritation.

Inhalation Hazards: Inhalation of toxicologically-significant quantities of ingredients is

unlikely when the product is used in a well-ventilated area and in

accordance with instructions.

Symptoms Related to

Overexposure:

Inhalation overexposure may cause respiratory irritation.

Delayed Effects from Long-term chronic ingestion may damage the kidneys and the

Long Term Overexposure: gastrointestinal system.

11. TOXICOLOGICAL INFORMATION (continued)

Carcinogenicity: No ingredients are classified as potential or confirmed human

carcinogens by OSHA, NTP, or IARC.

Germ Cell Mutagenicity: No ingredients have been determined to be germ cell mutagens.

Reproductive Toxicity: No ingredients have been determined to be damaging to fertility or to

the unborn child.

Acute Toxicity LD_{50} (oral): >10,000 mg/kg Estimates: LD_{50} (dermal): >10,000 mg/kg

LC₅₀: no data available

Interactive effects of components: no data available

12. ECOLOGICAL INFORMATION

Ecotoxicity: No ecotoxicity data are available for the product or its components.

Ozone Depletion This product neither contains nor is manufactured with any ingredients

Potential: known to deplete the ozone layer.

13. DISPOSAL CONSIDERATIONS

Do not discharge waste product into sanitary or storm sewers or allow it to contaminate soil. Empty containers should be decontaminated prior to disposal. Consult applicable Federal, State/Provincial, and local regulations.

14. TRANSPORTATION INFORMATION

Transport of the product is not regulated by USDOT, TDG (Canada), IATA, or IMO.

15. REGULATORY INFORMATION

United States Regulatory Information

TSCA Information: All ingredients of this product are listed in the TSCA Registry.

SARA Hazard

Acute Health Hazard, Chronic Health Hazard

Classes:

EPCRA Section This product contains no ingredients in concentrations $\geq 1\%$ ($\geq 0.1\%$ for 313 Notification: carcinogens) regulated under Section 313 of the *Emergency Planning*

and Community Right-To-Know Act of 1986 or 40 CFR 372.

Canadian Regulatory Information

This product has been classified in accordance with Canada's *Hazardous Products Regulations* (SOR/DORS/2015-15).

16. OTHER INFORMATION

Hazardous Materials <u>Health</u> <u>Flammability</u> <u>Physical Hazard</u> <u>PPE</u> Information System 1 1 0 See Note

(HMIS III) Ratings (slight hazard) (slight hazard) (minimal hazard)

(Legend):

16. OTHER INFORMATION (continued)

Note regarding PPE:

GAF recommends use of protective eyewear and skin protection (Personal Protection Index "B") as standard PPE for the anticipated conditions of use of this product. However, HMIS recommends that its ratings be used only in conjunction with a fully implemented HMIS program, and that specific PPE codes should be created by the user, who is familiar with the actual conditions under which the product is used. We cannot anticipate every condition of the product's use, and it is the user's responsibility to evaluate the hazards pertinent to its specific operations, and to determine the specific PPE required.

National Fire Protection Association (NFPA) Ratings: HealthFlammabilityReactivity110

Revision Information: Date of Prior SDS: not applicable

DISCLAIMER

This information relates to the specific material designated and may not be valid for such material used on combination with any other materials or in any process. Such information is to the best of our knowledge and belief accurate and reliable as of the date compiled. However, no representation, warranty or guarantee, expressed or implied, is made as to its accuracy, reliability, or completeness. It is the user's responsibility to satisfy himself as to the suitability and completeness of such information for his particular use. We do not accept liability for any loss or damage that may occur from the use of this information. Nothing herein shall be construed as a recommendation for uses which infringe valid patents or as extending a license of valid patents.