

GAF Safety Data Sheet SDS # 2166

SDS Date: October 2013

SECTION 1: PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: OlyBond 500[™] Green Part 1 (Dark Brown)

TRADE NAME: N/A

CHEMICAL NAME / SYNONYM:

Polymeric MDI

CHEMICAL FAMILY: Polymethylene Polyphynylisocyanate

MANUFACTURER: GAF

ADDRESS: 1361 Alps Road, Wayne, NJ 07470

24-HOUR EMERGENCY PHONE (CHEMTREC):

800 - 424 - 9300

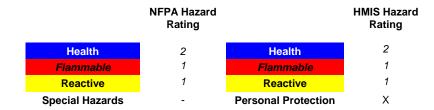
INFORMATION ONLY: 800 – 766 – 3411

PREPARED BY: Corporate EHS

APPROVED BY: Corporate EHS

SECTION 2: HAZARD IDENTIFICATION

NFPA and HMIS RATINGS:



GHS LABEL ELEMENTS:

GHS CLASSIFICATION: Eye Irritant - Category 2A

Skin Irritant - Category 2 Skin Sensitizer - Category 1 Target Organ (SE) - Category 3 Target Organ (RE) - Category 2 Carcinogen - Category 2 Acute Toxicity - Category 4

Hazardous to the Aquatic Environment - Category 2

GHS PICTOGRAMS:









SIGNAL WORD: Danger

HAZARD

STATEMENTS: May cause damage to organs through prolonged or repeated exposure

Causes skin irritation
Causes serious eye irritation
May cause an allergic reaction
May cause respiratory irritation

May cause allergy or asthma symptoms or breathing difficulties if inhaled

Harmful if inhaled

Toxic to aquatic life with long lasting effects

ADDITIONAL HAZARD IDENTIFICATION INFORMATION:

PRIMARY ROUTE OF EXPOSURE: Inhalation, Ingestion, Skin contact

SIGNS & SYMPTONS OF EXPOSURE

EYES: May cause eye irritation. May result in corneal opacity (clouding of

the eye surface).

SKIN: Can cause skin burns, irritation, and possible allergic reaction.

INGESTION: Harmful if swallowed. Can burn mouth, throat, and stomach.

Gastrointestinal symptoms include nausea, vomiting and abdominal

pain.

INHALATION: Inhalation of MDI vapors may cause irritation of the mucous

membranes of the nose, throat and trachea, breathlessness, chest discomfort, difficult breathing and reduced pulmonary function.

ACUTE HEALTH HAZARDS: Individuals who have developed skin sensitization, these symptoms

can develop as a result of contact with a very small amount of the

liquid material.

CHRONIC HEALTH HAZARDS: As a result of previous repeated overexposures or a single large

dose, certain individuals will develop isocyanate sensitization (chemical asthma) which will cause them to react to a later exposure to isocyanate at levels well below the PEL/TLV. These symptoms, which include chest tightness, wheezing, cough, shortness of breath, or asthmatic attack, could be immediate or delayed up to several hours after exposure. Chronic overexposure to isocyanates has also been reported to cause lung damage, including a decrease in lung function, which may be permanent. Sensitization may be either temporary or permanent. Prolonged contact can cause reddening, swelling, rash, scaling, or blistering. In those who have developed skin sensitization, these symptoms can develop as a result of contact with very small amounts of liquid

material.

CARCINOGENICITY: Lung tumers have been observed in lab animals exposedot

repirable aerosol droplets of MDI/polymerix MDI (6 mg/m3) for their

lifetime. Tumors occurred cocurrently with respiratory irritation and lung injury. Current exposure guidelines are expected to protect against these effects reported for MDI.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

			OCCUPATIONAL EXPOSURE LIMITS			
CHEMICAL NAME	CAS#	%	OSHA	ACGIH	OTHER	
4, 4'- Diphenylmethane Diisocyanate	101-68-8	38	0.2 mg/m3 ceiling	0.051 mg/m3	0.05 mg/m3	
Polymeric MDI	9016-87-9	<55	NE	NE	NE	
MDI Mixed Isomers	26447-40-5	10	NE	NE	NE	

NE = Not Established

SECTION 4: FIRST AID MEASRURES

FIRST AID PROCEDURES

EYES: After initial flushing, remove any contact lenses and continue flushing for

at least 15 minutes. Get immediate medical attention.

SKIN: Remove contaminated clothing and shoes. Immediately wash exposed

area with soap and water. Get medical attention immediately.

INHALATION: Move individual away from exposure and into fresh air. If not breathing,

give artificial respiration. Get immediate medical attention.

INGESTION: If swallowed, immediately give 2 glasses of water. Do not induce

vomiting. Contact a physician. Never give anything by mouth to an

unconscious person. Get immediate medical attention.

NOTES TO PHYSICIANS OR FIRST AID PROVIDERS:

There are no antidotes to counteract the effects of MDI. Care should be

supportive and treatment should be based on the judgment of the

physician in response to the action of the patient.

SECTION 5: FIRE FIGHTING PROCEDURES

SUITABLE EXTINGUISHING MEDIA: Water, Carbon dioxide, foam or Dry chemical

HAZARDOUS COMBUSTION

PRODUCTS:

Carbon dioxide and Carbon Monoxide.

RECOMMENDED FIRE FIGHTING

PROCEDURES:

Wear full firefighting turn-out gear (full Bunker gear), and

respiratory protection (SCBA).

UNUSUAL FIRE & EXPLOSION

HAZARDS:

Reacts with water to form carbon dioxide gas, which may create excessive pressure in containers. At temperatures greater than 400° F material may polymerize causing pressure build up in closed containers. Explosive rupture is possible. Use cold water to cool containers exposed to fire. Reacts exothermically with polyol and alcohols. Reacts exothermically

and possibly violently with acids, amines, and alkaline

solutions.

SECTION 6: ACCIDENTAL RELEASE MEASURES

ACCIDENTAL RELEASE MEASURES:

Evacuate non-emergency personnel to a safe area. Stop spill at source, dike area of spill to prevent spreading. Absorb spill with inert material such as dry sand or earth and place in a chemical waste container. Neutralize spill with mixture of 90% water, 3-8% ammonia and 2-7% detergent. Add at a 10 to 1 ratio and let stand

for 48 hrs allowing CO2 to escape.

SECTION 7: HANDLING AND STORAGE

HANDLING AND STORAGE: Avoid extreme temperatures. Keep container closed when not in

use. Store in a cool dry place, (60.1° F – 80.1° F). Shelf life is 18

months at 80.1° F.

OTHER PRECAUTIONS: None.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS /

VENTILATION:

Facilities storing or utilizing this material should be equipped with an eyewash and safety shower. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne

levels below recommended exposure limits.

RESPIRATORY PROTECTION: If workplace exposure limit(s) of product or any component is

exceeded, a NIOSH-approved respirator is advised in absence of proper environmental control. Engineering or administrative

controls should be implemented to reduce exposure.

EYE PROTECTION: Safety glasses should be worn.

SKIN PROTECTION: Avoid contact with skin. Selection of specific PPE such as boots,

gloves, aprons, and full body suit will depend on operation.

OTHER PROTECTIVE EQUIPMENT: N/A

WORK HYGIENIC PRACTICES: N/A

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE & ODOR:	Dark brown liquid with an aromatic odor.				
FLASH POINT:	>428° F	LOWER EXPLOSIVE LIMIT:	No data		
METHOD USED:	COC	UPPER EXPLOSIVE LIMIT:	No data		
EVAPORATION RATE:	No data	BOILING POINT:	200° C @ 5 mm Hg		
pH (undiluted product):	No data	MELTING POINT:	3° C		
SOLUBILITY IN WATER:	Reacts with Water	SPECIFIC GRAVITY:	1.22 (Water = 1)		
VAPOR DENSITY:	No data	PERCENT VOLATILE:	No data		
VAPOR PRESSURE:	.00001 mm Hg @ 20° C	MOLECULAR WEIGHT:	No data		
VOC WITH WATER (LBS/GAL):	No data	WITHOUT WATER (LBS/GAL):	No data		

SECTION	10: STABILIT	'Y AND R	EACTIVITY
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THERMAL STABILITY:	STABLE X	UNSTABLE

CONDITIONS TO AVOID (STABILITY): Avoid moisture, acids, alcohols, alkalies, and amines.

INCOMPATIBILITY (MATERIAL TO

AVOID):

Reacts with water, with formation of carbon dioxide. Risk of bursting with alcohols, acids, alkalies, amines. Risk of exothermic reaction. Risk of violent reaction. Contact with certain rubbers and plastics can cause brittleness of the

substance with subsequent loss in strength.

HAZARDOUS DECOMPOSITION OR BY-

PRODUCTS:

Carbon monoxide, Hydrogen cyanide, nitrogen oxides,

aromatic isocyanates, gases/vapors.

HAZARDOUS POLYMERIZATION: May occur.

SECTION 11: TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION:

Acute oral toxicity

LD 50/Rat: > 10,000 mg/kg

Acute inhalation toxicity

LD50/Rat: > 2.240 mg/1/1h

SECTION 12: ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: No information available.

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: This product, as supplied, is not regulated as a hazardous waste by the

U.S. Environmental Protection Agency (EPA) under Resource

Conservation and Recovery Act (RCRA) regulations. Comply with state

and local regulations for disposal.

RCRA HAZARD CLASS: None.

SECTION 14: TRANSPORTATION INFORMATION

U.S. DOT TRANSPORTATION

PROPER SHIPPING NAME: N/A

HAZARD CLASS: N/A

ID NUMBER: N/A

PACKING GROUP: N/A

LABEL STATEMENT: N/A

OTHER: N/A

SECTION 15: REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS

TSCA: This product and its components are listed on the TSCA 8(b)

inventory.

CERCLA: 4, 4'-Diphenylmethane Diisocyanate (101-68-8)

SARA

311 / 312 HAZARD CATEGORIES: Acute Health Hazard: Chronic Health Hazard

313 REPORTABLE INGREDIENTS: 4, 4'-Diphenylmethane Diisocyanate (101-68-8) RQ 5000 lbs

CALIFORNIA PROPOSITION 65: This product contains a chemical known to the state of California to

cause cancer and birth defects, or other reproductive harm.

Other state regulations may apply. Check individual state requirements. The following components appear on one or more of the following state hazardous substances lists:

Chemical Name	CAS#	CA	MA	MN	NJ	PA	RI
4, 4'-Diphenylmethane Diisocyanate	101-68-8	Yes	No	No	Yes	No	Yes
Polymeric MDI	9016-87-9	No	No	No	No	No	No
MDI Mixed Isomers	26447-40-5	No	No	No	No	No	No

SECTION 16: OTHER INFORMATION

ADDITIONAL COMMENTS: N/A

DATE OF PREVIOUS SDS: March 2011

CHANGES SINCE PREVIOUS SDS: GHS formatting changes.

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.