

GAF Safety Data Sheet SDS # 2147

SDS Date: October 2017

SECTION 1: PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: LRF Adhesive M Part A

TRADE NAME: N/A

CHEMICAL NAME / **SYNONYM:**

N/A

CHEMICAL FAMILY: N/A

GAF MANUFACTURER:

> ADDRESS: 1 Campus Drive, Parsippany, NJ 07054

24 HOUR EMERGENCY

PHONE: (CHEMTREC) 800-424-9300

INFORMATION ONLY:

800-766-3411

PREPARED BY: Corporate EHS

APPROVED BY: Corporate EHS

SECTION 2: HAZARDS IDENTIFICATION

NFPA and HMIS RATINGS:

	NFPA Hazard Rating		HMIS Hazard Rating
Health	2	Health	2
Flammable	1	Flammable	1
Reactive	1	Reactive	1
Special Hazards	- -	Personal Protection	Χ

GHS LABEL ELEMENTS:

GHS CLASSIFICATION:

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

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.

ADDITIONAL HAZARD IDENTIFICATION INFORMATION:

PRIMARY ROUTE OF EXPOSURE: Inhalation, Skin Contact, Eye Contact

SIGNS & SYMPTONS OF EXPOSURE

EYES: This product is irritating to the eyes.

SKIN: This product is irritating to the skin. This product may cause an

allergic skin reaction.

INGESTION: This product is not expected to be ingested. However, ingestion

can cause gastrointestinal irritation, nausea, vomiting and diarrhea.

INHALATION: Allergic lung reaction such as asthma, which includes coughing,

wheezing, chest pain and tightness, difficulty breathing and

shortness of breath.

ACUTE HEALTH HAZARDS: See above.

CHRONIC HEALTH HAZARDS: Repeated inhalation and skin contact exposures may cause

sensitization.

CARCINOGENICITY: None known.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

			OCCUPATIONAL EXPOSURE LIMITS			
CHEMICAL NAME	CAS#	% (BY WT)	OSHA	ACGIH	OTHER	
diphenylmethanediiso cyanate,isomeres and homologues	9016-87-9	50 – 100	NE	NE	NE	
4,4'-Methylene Bisphenol Isocyanate (MDI)	101-68-8	25 – 50	0.02 ppm – ceiling	0.005 ppm	0.005 ppm; 0.02 ppm – ceiling (10 min.)	
Methylene Bisphenol Isocyanate (MDI)	26447-40-5	2.5 – 10	NE	NE	NE	

NE = Not Established

SECTION 4: FIRST AID MEASURES

FIRST AID PROCEDURES

EYES: Immediately flush eyes with water for at least 15 minutes while holding

eyelids open. Seek medical attention.

SKIN: Wash exposed skin with soap and water. If irritation develops or

persists, seek medical attention. Discard contaminated clothing.

INHALATION: Move affected individual to an area free of risk from further exposure.

Administer oxygen or artificial respiration as needed. Immediate or delayed asthma-like symptoms may develop. Seek medical attention.

INGESTION: If the material is swallowed, seek immediate medical attention. Rinse

out mouth with water. Drink 1 - 2 glasses of water but DO NOT induce vomiting. Never give anything by mouth to a victim who is unconscious

or is having convulsions.

NOTES TO PHYSICIANS OR FIRST AID PROVIDERS:

None known.

SECTION 5: FIRE FIGHTING PROCEDURES

SUITABLE EXTINGUISHING MEDIA: Water spray, carbon dioxide, or dry chemical. Fight larger

fires with water spray. Use fire fighting measures that suit the

environment.

HAZARDOUS COMBUSTION PRODUCTS: Carbon dioxide, carbon monoxide, oxides of nitrogen, dense

black smoke, hydrogen cyanide, isocyanic acid, other

undetermined compounds.

RECOMMENDED FIRE FIGHTING

PROCEDURES:

Firefighters should wear full protective clothing including self

contained breathing apparatus.

UNUSUAL FIRE & EXPLOSION

HAZARDS:

Containers may burst if overheated. This product reacts with

water producing carbon dioxide gas. Do not reseal

contaminated containers as a hazardous pressure build up

could result in container rupture.

SECTION 6: ACCIDENTAL RELEASE MEASURES

ACCIDENTAL RELEASE MEASURES:

Absorb spill with inert material. Ventilate the contaminated area. Shovel material into appropriate container for further neutralization and disposal. Evacuate the area promptly. Keep upwind of the spilled material and isolate exposure. Avoid inhalation of vapors and mists. Surfaces may become slippery after a spill. Wear PPE for spill clean up. Stop the flow of material, if possible. Do not

allow to drain to sewers.

SECTION 7: HANDLING AND STORAGE

HANDLING AND STORAGE: Keep containers properly sealed in a cool, dry, well ventilated

area between 32 – 90 °F. Do not store in open, unlabeled or mislabeled containers. Keep away from open flames and high

temperatures.

OTHER PRECAUTIONS: Product reacts with water and may produce heat and/or gases.

Do not reuse empty containers without proper cleaning and

reconditioning.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS/

VENTILATION:

Provide adequate local ventilation to maintain worker exposure

below exposure limits.

RESPIRATORY PROTECTION: Use a NIOSH-approved respirator to protect against inhalation of

vapors. A respirator should be used if ventilation is unavailable, or is inadequate for keeping vapor levels below the applicable exposure limits. Consult the respirator manufacturer to determine

the appropriate type of equipment for a given application.

EYE PROTECTION: Wear safety glasses and a face shield or chemical goggles.

SKIN PROTECTION: The use of neoprene, nitrile or butyl rubber gloves is recommended.

OTHER PROTECTIVE EQUIPMENT: Eye wash stations and safety showers are recommended.

WORK HYGIENIC PRACTICES: Wash exposed skin prior to eating, drinking or smoking and at the

end of each shift.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE & ODOR:	Dark brown liquid with faint aromatic odor.				
FLASH POINT:	220 °F	LOWER EXPLOSIVE LIMIT:	No Data		
METHOD USED:	Pensky-Martin CC	UPPER EXPLOSIVE LIMIT:	No Data		
EVAPORATION RATE:	No Data	BOILING POINT:	392 °F		
pH (undiluted product):	No Data	MELTING POINT:	No Data		
SOLUBILITY IN WATER:	Not Miscible	SPECIFIC GRAVITY:	1.22		
VAPOR DENSITY:	No Data	PERCENT VOLATILE:	< 0.15		
VAPOR PRESSURE:	0 mm Hg	MOLECULAR WEIGHT:	No Data		
VOC WITH WATER (LBS/GAL):	No Data	SPECIFIC GRAVITY (LBS/GAL):	10.2		

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CONDITIONS TO AVOID (STABILITY): Avoid high temperatures. Avoid contact with water. Reacts

with amines, caustic alkali solutions, alcohols, ammonia, oxidizers, acids, polyols.

Reacts with water forming carbon dioxide-may rupture sealed

containers if contaminated with water.

May produce violent reactions with bases and numerous organic substances including alcohols and amines.

INCOMPATIBILITY (MATERIAL TO

AVOID):

Water, alcohols, amines, bases and acids.

HAZARDOUS DECOMPOSITION OR BY-

PRODUCTS:

Carbon dioxide, carbon monoxide, oxides of nitrogen, dense

black smoke, hydrogen cyanide, isocyanic acid, other

undetermined compounds.

HAZARDOUS POLYMERIZATION: Contact with moisture, other materials that react with

isocyanates, or temperatures above 350F, may cause

polymerization.

SECTION 11: TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION: 4,4' Methylene Bisphenol Isocyanate (MDI)

Oral LD50 Mouse: 2200 mg/kg

SECTION 12: ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: No information available.

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Must not be disposed of together with household garbage. Do not allow

product to reach sewage system. Must be specially treated adhering to

official regulations.

Disposal must be made according to official regulations.

RCRA HAZARD CLASS: N/A

SECTION 14: TRANSPORTATION INFORMATION

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDO

Not regulated as dangerous goods.

SECTION 15: REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS

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

inventory.

CERCLA Hazardous Substances (40 CFR 302)

Reportable Quantity - Components

4,4'-Methylene Bisphenol Isocyanate (MDI): 101-68-8, 5000 lbs.

SARA

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

313 REPORTABLE INGREDIENTS: 4,4'-Methylene Bisphenol Isocyanate (MDI), 101-68-8, 30 – 60%

diphenylmethanediisocyanate, isomeres and homologues, 9016-87-

9,30-60%

CALIFORNIA PROPOSITION 65: None.

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'-Methylene Bisphenol Isocyanate (MDI)	101-68-8	Yes	Yes	Yes	Yes	Yes	Yes
diphenylmethanediisocyanate, isomeres and homologues	9016-87-9	Yes	Yes	Yes	Yes	Yes	Yes

SECTION 16: OTHER INFORMATION

ADDITIONAL COMMENTS: None

DATE OF PREVIOUS SDS: September 2016

CHANGES SINCE PREVIOUS SDS: Ingredient Change

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.