

Section 1 - PRODUCT AND COMPANY IDENTIFICATION

Material Name

GAF LRF Adhesive XF Part B

Synonyms Urethane System Resin Component

Chemical Family Resin **Product Use** Polyurethane Component

Manufacturer Information: GAF 1 Campus Drive Parsippany, NJ 07054, USA

Phone: 800-766-3411 Emergency Phone #: CHEMTREC: 800-424-9300

Section 2 - HAZARDS IDENTIFICATION

Classification of the product

Press. GasCompr. GasGases Under PressureSTOT RE2 (oral)Specific target organ toxicity-
repeated exposureSimple AsphyxiantSimple Asphyxiant (1)Simple Asphyxiant

GHS Label Elements

Symbol(s)





Signal Word Warning

Hazard Statement(s)

Contains gas under pressure; may explode if heated. May displace oxygen and cause rapid suffocation.

May cause damage to organs (Kidney) through prolonged or repeated exposure (oral).

Precautionary Statement(s)

Prevention

Do not breathe dust/gas/mist/vapors.

Response

Get medical advice/attention if you feel unwell.

Storage

P410 + P403 Protect from sunlight. Store in well-ventilated place.

Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

According to Regulation 2012 OSHA Hazard Communication Standard: 29 CFR 1910.1200

CAS Number	Weight %	Chemical Name
811-97-2	> = 10.0 - < 15.0%	HFC-134A
111-46-6	> = 1.0 - < 3.0%	diethylene glycol
280-57-9	> = 0.3 - < 1.0%	triethylenediamine
25265-71-8	>=1.0 -< 3.0%	dipropylene glycol

The product contains:

CAS Number

7727-37-9

>= 0.0 - < 1.0%

Chemical Name

Nitrogen, used for cylinder pressurization only.



Section 4 - FIRST AID MEASURES

Description of first aid measures

General advice: Remove contaminated clothing.

If Inhaled: Keep patient calm, remove to fresh air, seek medical attention.

If on skin:

Wash thoroughly with soap and water.

If in eyes:

Wash affected eyes for at least 15 minutes under running water with eyelids held open.

If swallowed:

Immediately rinse mouth and then drink 200-300 ml of water, seek medical attention. Do not induce vomiting.

Most important symptoms and effects, both acute and delayed

Symptoms: The most important know symptoms and effects are described in the labeling (see section 2) and/or in section 11.

Hazards: No hazards anticipated.

Indication of any immediate medical attention and special treatment needed

Note to physician

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

Section 5 - FIRE FIGHTING MEASURES

Extinguishing media

Suitable extinguishing media: water spray, dry powder, carbon dioxide, foam

Special hazards arising from substance or mixture:

Hazards during fire-fighting: No particular hazards known.

Advice for fire-fighters

Protective equipment for fire-fighting: Firefighters should be equipped with self-contained breathing apparatus and turn-out gear.

Further information:

Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.



Section 6 - ACCIDENTAL RELEASE MEASURES

Further accidental release measures:

High risk of slipping due to leakage/spillage of product.

Personal Precautions, Protective Equipment and Emergency Procedures Use personal protective clothing.

Environmental Precautions Do not empty into drains. Do not discharge into the subsoil/soil.

Section 7 - HANDLING AND STORAGE

Precautions for Safe Handling

Ensure thorough ventilation of stores and work areas. Protect against moisture.

Protection against fire and explosion: No explosion proofing necessary.

Conditions for Safe Storage, Including any Incompatibilities

Segregate from foods and animal feeds. Segregate from acids. Segregate from oxidants.

Suitable materials for containers: Carbon steel (Iron), High density polyethylene (HDPE), Low density polyethylene (LDPE), Stainless steel 1.4301 (V2)

Further information on storage conditions: No special precautions necessary. Avoid extreme heat. Store protected against freezing.

Storage stability: Storage temperature: 16 - 27 °C

Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

No occupational exposure limits known.

Advice on system design:

Provide local exhaust ventilation to control vapors/mists.

Personal protective equipment

Respiratory protection: Wear a NIOSH-certified (or equivalent) organic vapor/particulate respirator as needed.

Hand protection: Chemical resistant protective gloves.

Eye protection:

Wear face shield or tightly fitting goggles (chemical goggles) if splashing hazard exits.

Body protection:

Standard work clothes and shoes.



General safety and hygiene measures

Avoid contact with skin. Handle in accordance with good industrial hygiene and safety practice. Wear protective clothing as necessary to prevent contact. Avoid inhalation of vapours/mists. Wash soiled clothing immediately.

Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

Form:	Liquid
Odour:	Amine-like
Odour threshold:	No applicable information available.
Colour:	Clear
pH value:	>= 7.0
Freezing point:	> 0.00 °C
Boiling point:	> 100.00 °C
Sublimation point:	No applicable information available. >
Flash point:	200.00 °F
Flammability:	Not flammable
Lower explosion limit:	For liquids not relevant for
Lower explosion mint.	classification and labelling. The lower
	explosion point may be 5 - 15 °C below
	the flash point.
Upper explosion limit:	For liquids not relevant for
	classification and labelling.
Autoignition:	> 250 °C
Vapor pressure:	< 0.1 hPa
	(25 °C)
Density:	1.0010 - 1.0040 g/cm3
	(20.00 °C)
Relative density:	No applicable information available.
Vapor density:	No applicable information available.
Partitioning coefficient	Unspecified
n-octanol/water (log	
Pow):	
Self-ignition	Not self-igniting
temperature:	6 6
Thermal decomposition:	No decomposition if stored and handled
	as prescribed/indicated.
Viscosity, dynamic:	420.000 mPa.s
	(23.00 °C)
Viscosity, kinematic:	No applicable information available.
Solubility in water:	Slightly soluble.
Solubility (quantitative):	No applicable information available.
Solubility (qualitative):	No applicable information available.
Evaporation rate:	Value can be approximated from
	Henry's Law Constant or vapor pressure.

Other Information

If necessary, information on other physical and chemical parameters is indicated in this section.



Section 10 - STABILITY AND REACTIVITY

Reactivity

No hazardous reactions if stored and handled as prescribed/indicated.

Corrosion to metals: No corrosive effect on metal expected.

Oxidizing properties: Not an oxidizer.

Chemical Stability The product is stable if stored and handled as prescribed/indicated.

Possibility of hazardous reactions

No hazardous reactions if stored and handled as prescribed/indicated.

Conditions to avoid Temperature: < 0 degrees Celsius

Incompatible materials Acids, oxidizing agents, isocyanates

Hazardous decomposition products

Decomposition products Hazardous decomposition products: carbon monoxide, carbon dioxide, nitrogen oxide, hydrogen cyanide

Thermal decomposition: No decomposition if stored and handled as prescribed/indicated.

Section 11 - TOXICOLOGICAL INFORMATION

Primary routes of exposure

Routes of entry for solids and liquids are ingestion and inhalation, but may include eye or skin contact. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquefied gases.

Acute Toxicity/Effects

<u>Acute toxicity</u> Assessment of acute toxicity: No known acute effects.



<u>Oral</u> No applicable information available.

<u>Inhalation</u> No applicable information available.

<u>Dermal</u> No applicable information available.

Assessment other acute effects Assessment of STOT single: Based on the available information there is no specific target organ toxicity to be expected after a single exposure.

Origin of data: expert judgement

<u>Irritation/Corrosion</u> Assessment of irritating effects: No irritation is expected under intended use and appropriate handling.

Sensitization

Assessment of sensitization: The chemical structure does not suggest a sensitizing effect. No applicable information available.

<u>Aspiration Hazard</u> No aspiration hazard expected.

Chronic Toxicity/Effects

<u>Repeated dose toxicity</u> Assessment of repeated dose toxicity: Repeated exposure may affect certain organs.

Genetic toxicity

Assessment of mutagenicity: The chemical structure does not suggest a specific alert for such an effect. No applicable information available.

Carcinogenicity

Assessment of carcinogenicity: The chemical structure does not suggest a specific alert for such an effect. No applicable information available.

Reproductive toxicity

Assessment of reproduction toxicity: The chemical structure does not suggest a specific alert for such an effect. No applicable information available.

Teratogenicity

Assessment of teratogenicity: The chemical structure does not suggest a specific alert for such an effect. No applicable information available.

Other Information

The product has not been tested. The statement has been derived from the properties of the individual components.



Symptoms of Exposure

The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11.

Medical conditions aggravated by overexposure

Data available do not indicate that there are medical conditions that are generally recognized as being aggravated by exposure to this substance/product.

Section 12 - ECOLOGICAL INFORMATION

Toxicity

Aquatic toxicity Assessment of aquatic toxicity:

There is a high probability that the product is not acutely harmful to aquatic organisms. The product has not been tested. The statement has been derived from the properties of the individual components.

Persistence and degradability

Assessment biodegradation and elimination (H2O) Poorly biodegradable.

<u>Elimination information</u> Poorly biodegradable.

Bioaccumulative Potential

Assessment bioaccumulation potential Does not significantly accumulate in organisms.

Mobility in soil

<u>Assessment transport between environmental compartments</u> Adsorption to solid soil phase is not expected.

Additional information

Absorbable organically-bound halogen (AOX): This product contains no organically-bound halogen

Other ecotoxicological advice: The product has not been tested. Do not discharge product into the environment without control.

Section 13 - DISPOSAL CONSIDERATIONS

Waste disposal of substance:

Incinerate in a licensed facility. Dispose of in a licensed facility. Do not discharge substance/product into sewer system. Follow all federal, state and local regulations.



Section 14 - TRANSPORT INFORMATION

Containers Greater Than 100 cu. Cm. (1 liter)

<u>Ground</u> - UN3500 chemical Under Pressure n.o.s. (Fluorinated hydrocarbon, nitrogen) 2.2 (Non-Flammable Gas Label)

Air - UN3500 chemical Under Pressure n.o.s. (Fluorinated hydrocarbon, nitrogen) 2.2 (Non-Flammable Gas Label)

Water - UN3500 chemical Under Pressure n.o.s. (Fluorinated hydrocarbon, nitrogen) 2.2 (Non-Flammable Gas Label)

Section 15 - REGULATORY INFORMATION

Federal Regulations

Registration status: Chemical TSCA, US released / listed

EPCRA 311/312 (Hazard categories): Acute; Chronic, Sudden release of pressure

State regulations State RTK PA

<u>CAS Number</u> 111-46-6 25265-71-8 Chemical Name diethylene glycol dipropylene glycol

CA Prop. 65: None

NFPA Hazard codes: Health: 1 Fire: 1 Reactivity: 1 Special:

HMIS III rating: Health: 1^a Flammability: 1 Physical hazard: 1

Section 16 - OTHER INFORMATION		
ADDITIONAL COMMENTS:	None	
DATE OF PREVIOUS SDS:	Not Applicable – New Product.	
CHANGES SINCE PREVIOUS SDS:	Not Applicable – New Product.	

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