



SECTION 1: PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: LRF Millennium Surface Treatment

TRADE NAME: N/A

**CHEMICAL NAME /
SYNONYM:** N/A

CHEMICAL FAMILY: N/A

MANUFACTURER: GAF

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: HAZARD IDENTIFICATION

NFPA and HMIS RATINGS:

	NFPA Hazard Rating		HMIS Hazard Rating
	2		2
	2		2
	0		0
Special Hazards	-	Personal Protection	X

GHS LABEL ELEMENTS:

GHS CLASSIFICATION: Flammable Liquid - Category 1
Eye Irritant - Category 2A
Skin Irritant - Category 2
Respiratory Irritant
Target Organ (SE) - Category 3
Target Organ (RE) - Category 2
Acute Toxicity - Category 4
Aspiratory Toxicity - Category 1
Mutagenicity - Category 1B
Carcinogen - Category 1B
Hazardous to the Aquatic Environment - Category 2

GHS PICTOGRAMS:



SIGNAL WORD: Danger

HAZARD STATEMENTS:

Extremely Flammable liquid and vapor
May cause damage to organs through prolonged or repeated exposure
Harmful in contact with skin irritation
May cause skin irritation
Serious eye irritation
Harmful if inhaled
May cause respiratory irritation
May be fatal if swallowed and enters airways
Suspecting of damaging fertility or the unborn child
May cause cancer
May cause genetic defects
May cause drowsiness or dizziness
Toxic to aquatic life with long lasting effects

ADDITIONAL HAZARD IDENTIFICATION INFORMATION:

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

SIGNS & SYMPTOMS OF EXPOSURE

- EYES:** Irritating to the eyes including a burning sensation, redness, swelling and blurred vision.
- SKIN:** Irritating to the skin. May be absorbed through the skin. Repeating exposure may cause skin dryness or cracking.
- INGESTION:** Ingestion may result in central nervous system (CNS) effects including headache, sleepiness, dizziness, slurred speech and blurred vision.
- INHALATION:** May cause irritation to the nose and upper respiratory tract. Inhalation causes central nervous system (CNS) depression with symptoms such as weakness, dizziness, confusion and drowsiness.
- ACUTE HEALTH HAZARDS:** See above.
- CHRONIC HEALTH HAZARDS:** Prolonged or repeated exposure may cause damage to the kidneys and liver.
- CARCINOGENICITY:** None known.
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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME	CAS #	% (BY WT)	OCCUPATIONAL EXPOSURE LIMITS		
			OSHA	ACGIH	OTHER
Petroleum naphtha, light aromatic	64742-95-6	30 – 60	NE	NE	NE
1,2,4- trimethylbenzene	95-63-6	15 – 40	NE	25 ppm	25 ppm
Alkoxysilane	Proprietary	5 – 10	NE	NE	NE
Xylene	1330-20-7	1 – 5	100 ppm	100 ppm 125 ppm STEL	REL: 100 ppm 125 ppm STEL
Modified chlorinated polyolefin	Proprietary	1 – 5	NE	NE	NE
Cumene	98-82-8	1 – 5	50 ppm	50 ppm	50 ppm

NE = Not Established

SECTION 4: FIRST AID MEASURES**FIRST AID PROCEDURES**

- EYES:** Immediately flush eyes with plenty of water for at least 15 minutes. If irritation persists get medical attention.
- SKIN:** For skin contact flush with large amounts of water while removing contaminated clothing. Wash contaminated clothing before reuse. If irritation persists, get medical attention.
- INHALATION:** If inhaled, immediately remove the affected person to fresh air. Call a physician if symptoms develop or persist. If not breathing, give artificial respiration and call a physician immediately.
- INGESTION:** If material is ingested, immediately contact a physician or poison control center. Do not induce vomiting.
- NOTES TO PHYSICIANS OR FIRST AID PROVIDERS:** None known.

SECTION 5: FIRE FIGHTING PROCEDURES

- SUITABLE EXTINGUISHING MEDIA:** Dry chemical, alcohol-resistant foam, carbon dioxide, water fog.

HAZARDOUS COMBUSTION PRODUCTS:	Oxides of carbon. Oxides of silicon. Irritating and toxic vapors / fumes may be given off in a fire.
RECOMMENDED FIRE FIGHTING PROCEDURES:	Firefighters should wear full protective clothing including self contained breathing apparatus. Clear area of unprotected personnel. Move container from area if it can be done without risk. Cool containers with water spray until well after fire is out to prevent vapor build up, which could result in container rupture.
UNUSUAL FIRE & EXPLOSION HAZARDS:	Combustible liquid. Vapors are heavier than air and may travel along the ground to some distant source of ignition and flash back. Vapor/air mixtures may be explosive.

SECTION 6: ACCIDENTAL RELEASE MEASURES

ACCIDENTAL RELEASE MEASURES:	Contain the discharged material, if this is without risk. Reduce vapors with water spray. Eliminate ignition sources or flammables that may come into contact with a spill of this material. Equipment must be grounded to prevent sparking. Wear appropriate protective equipment and clothing during clean-up. Eliminate ignition sources including sources of electrical, static or frictional sparks. Ventilate the contaminated area. Absorb with inert material. Shovel material into appropriate container for disposal. Use non-sparking tools and ensure all equipment is grounded. Isolate area. Keep unnecessary personnel away. Follow all Local, State, Federal and Provincial regulations for disposal.
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SECTION 7: HANDLING AND STORAGE

HANDLING AND STORAGE:	Avoid getting this material into contact with eyes and skin. Avoid breathing vapors or mists of this product. Keep away from heat, sparks or open flame.
OTHER PRECAUTIONS:	Keep the container tightly closed and in a cool, well-ventilated place. Eliminate all sources of ignition.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS / VENTILATION:	Use explosion proof local exhaust ventilation or other engineering controls to control airborne levels below exposure limits.
RESPIRATORY PROTECTION:	If ventilation is not sufficient to effectively prevent buildup of vapors, appropriate NIOSH respiratory protection must be provided.
EYE PROTECTION:	Wear chemical goggles; face shield (if splashing is possible).
SKIN PROTECTION:	Use impervious gloves.

OTHER PROTECTIVE EQUIPMENT: Facilities storing or utilizing this material should be equipped with an eye wash and safety shower.

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:	Clear to light yellow liquid with aromatic odor.		
FLASH POINT:	45 °C (113 °F)	LOWER EXPLOSIVE LIMIT:	No Data
METHOD USED:	Closed Cup	UPPER EXPLOSIVE LIMIT:	No Data
EVAPORATION RATE:	No Data	BOILING POINT:	No Data
pH (undiluted product):	No Data	MELTING POINT:	No Data
SOLUBILITY IN WATER:	No Data	SPECIFIC GRAVITY:	0.882
VAPOR DENSITY:	No Data	PERCENT VOLATILE:	No Data
VAPOR PRESSURE:	No Data	MOLECULAR WEIGHT:	No Data
VOC WITH WATER (LBS/GAL):	No Data	WITHOUT WATER (LBS/GAL):	No Data

SECTION 10: STABILITY AND REACTIVITY

THERMAL STABILITY: **STABLE** **UNSTABLE**

CONDITIONS TO AVOID (STABILITY): Keep away from heat, ignition sources and incompatible materials.

INCOMPATIBILITY (MATERIAL TO AVOID): Strong oxidizers, combustible materials.

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: Oxides of carbon. Oxides of silicon. Irritating and toxic vapors / fumes may be given off in a fire.

HAZARDOUS POLYMERIZATION: Will not occur.

SECTION 11: TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION: Petroleum naphtha, light aromatic (64742-95-6)

Inhalation LC50 Rat: >5.2 mg/L/4H
 Inhalation LC50 Rat: 3400 ppm/4H
 Oral LD50 Rat: 8400 mg/kg
 Dermal LD50 Rabbit: >2000 mg/kg

Benzene, 1,2,4-trimethyl- (95-63-6)

Inhalation LC50 Rat: 18 g/m³/4H
 Oral LD50 Rat: 3400 mg/kg
 Dermal LD50 Rabbit: >3160 mg/kg

Alkoxysilane (Proprietary)

Oral LD50 Rat: 22600 µL/kg
 Dermal LD50 Rabbit: 3970 µL/kg

Xylenes (o-, m-, p- isomers) (1330-20-7)

Inhalation LC50 Rat: 5000 ppm/4H
 Oral LD50 Rat: 4300 mg/kg
 Dermal LD50 Rabbit: >1700 mg/kg

Cumene (98-82-8)

Oral LD50 Rat: 1400 mg/kg
 Dermal LD50 Rabbit: >3160 mg/kg

SECTION 12: ECOLOGICAL INFORMATION**ECOLOGICAL INFORMATION:****Component Analysis - Ecotoxicity - Aquatic Toxicity****Petroleum naphtha, light aromatic (64742-95-6)**

Test & Species		Conditions
96 Hr LC50	9.22 mg/L	
Oncorhynchus mykiss		
48 Hr EC50	6.14 mg/L	
Daphnia magna		

Benzene, 1,2,4-trimethyl- (95-63-6)

Test & Species		Conditions
96 Hr LC50	7.72 mg/L	flow-through
Pimephales promelas		
48 Hr EC50	6.14 mg/L	
Daphnia magna		

Xylenes (1330-20-7)

Test & Species		Conditions
96 Hr LC50	13.4 mg/L	flow-through
Pimephales promelas		
96 Hr LC50	8.05 mg/L	flow-through
Oncorhynchus mykiss		
96 Hr LC50	16.1 mg/L	flow-through
Lepomis macrochirus		
96 Hr LC50	26.7 mg/L	static
Pimephales promelas		
24 hr EC50	0.0084 mg/L	
Photobacterium phosphoreum		
48 Hr EC50	3.82 mg/L	
water flea		
48 Hr LC50	0.6 mg/L	
Gammarus lacustris		

Cumene (98-82-8)

Test & Species		Conditions
96 Hr LC50	6.32 mg/L	flow-through
Pimephales promelas		
96 Hr LC50	4.8 mg/L	flow-through
Oncorhynchus mykiss		
96 Hr LC50	5.1 mg/L	semi-static
Poecilia reticulata		
72 Hr EC50	2.6 mg/L	
Selenastrum capricornutum		
5 min EC50	0.89 mg/L	
Photobacterium phosphoreum		
15 min EC50	1.10 mg/L	
Photobacterium phosphoreum		
30 min EC50	1.48 mg/L	
Photobacterium phosphoreum		
24 Hr EC50	172 mg/L	
Dicranophorus forcipatus		
48 Hr EC50	0.6 mg/L	
water flea		

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: This product, as supplied, is regulated as a hazardous waste by the U.S. Environmental Protection Agency (EPA) under Resource Conservation and Recovery Act (RCRA) regulations. If discarded in its purchased form, this product is a RCRA hazardous waste. It is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or residue of the product remains classified a hazardous waste as per 40 CFR 261, Subpart C. State or local regulations may also apply if they differ from the federal regulation.

RCRA HAZARD CLASS: D001, Ignitable Hazardous Waste

SECTION 14: TRANSPORTATION INFORMATION

U.S. DOT TRANSPORTATION

PROPER SHIPPING NAME:	Flammable liquids, n.o.s (Petroleum naphtha, light aromatic; 1,2,4-trimethylbenzene)
HAZARD CLASS:	3
ID NUMBER:	1993
PACKING GROUP:	III
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: CERCLA Hazardous Substances (40 CFR 302)

Reportable Quantity – Components

Xylenes, 1330-20-7, 100 lbs.

Cumene, 98-82-8, 5000 lbs.

SARA

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

313 REPORTABLE INGREDIENTS: 1,2,4-trimethylbenzene, 95-63-6, 15 – 40%
Xylenes, 1330-20-7, 1 – 5%
Cumene, 98-82-8, 1 – 5%

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
Petroleum naphtha, light aromatic	64742-95-6	No	No	No	No	No	No
1,2,4-trimethybenzene	95-63-6	No	Yes	Yes	Yes	Yes	No
Alkoxysilane	Proprietary	No	No	No	No	No	No
Xylenes (o-, m-, p- isomers)	1330-20-7	Yes	Yes	Yes	Yes	Yes	Yes
Modified chlorinated polyolefin	Proprietary	No	No	No	No	No	No
Cumene	98-82-8	Yes	Yes	Yes	Yes	Yes	Yes

SECTION 16: OTHER INFORMATION

ADDITIONAL COMMENTS: None

DATE OF PREVIOUS SDS: October 2013

CHANGES SINCE PREVIOUS SDS: Headquarters Address Change

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