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SECTION 1. IDENTIFICATION

Product identifier used on the label

: Roscoflamex SF

Other means of identification: 150079SF0001 Flamex SF Syn Fiber- 1 oz.

150079SF0128 Flamex SF Synthetic Fiber- gallon 150079SF0640 Flamex SF Synthetic Fiber- 5 gallon 150079SF5500 Flamex SF Syn Fiber- 55 Gal. Drum

Recommended use of the chemical and restrictions on use

: Flame retardant

Recommended restrictions: None known.

Chemical family : Mixture

Name, address, and telephone number

of the supplier:

Name, address, and telephone number of

the manufacturer:

Refer to supplier

Rosco Laboratories Inc.

52 Harbor View Avenue Stamford, CT, United States

06902

Supplier's Telephone # : 203-708-8900

24 Hr. Emergency Tel #: Chemtrec 1-800-424-9300 (Within Continental U.S.); Chemtrec 703-527-3887

(Outside U.S.).

SECTION 2. HAZARDS IDENTIFICATION

Classification of the chemical

Clear liquid. Ammonia odor.

This material is not classified as hazardous under U.S. OSHA regulations (29 CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015).

Label elements

Hazard pictogram(s)

None required under U.S. OSHA Hazcom 2012 and Canadian WHMIS 2015 regulations.

Signal Word

None required.

Hazard statement(s)

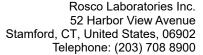
None required.

Precautionary statement(s)

None required.

Other hazards

Other hazards which do not result in classification:Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. May be mildly irritating to skin, eyes and respiratory system.





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SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture

Chemical name	Common name and synonyms	CAS#	Concentration (% by weight)
Urea	Carbamide	57-13-6	1.0 - 5.0

The exact concentrations of the above listed chemicals are being withheld as a trade secret.

SECTION 4. FIRST-AID MEASURES

Description of first aid measures

Ingestion : Do NOT induce vomiting. Have victim rinse mouth with water, then give one to two

glasses of water to drink. Never give anything by mouth to an unconscious person.

Call a physician.

Inhalation : If inhaled, move to fresh air. If breathing is difficult, give oxygen by qualified medical

personnel only. If breathing has stopped, give artificial respiration. Obtain medical

attention if symptoms develop and persist.

Skin contact: Wash off immediately with plenty of water. Remove and wash contaminated clothing

before re-use. If irritation or symptoms develop, seek medical attention.

Eye contact : Flush eyes with water for at least 15 minutes while holding eyelids open. Remove

contact lenses, if present and easy to do. Continue rinsing. If irritation persists, seek

prompt medical attention.

Most important symptoms and effects, both acute and delayed

May cause mild eye irritation. Symptoms may include stinging and tearing. May cause mild skin irritation. Symptoms may include mild redness and swelling. May cause respiratory irritation. Symptoms may include upper respiratory irritation, coughing and breathing difficulties. May be harmful if swallowed. Ingestion may cause

gastrointestinal irritation, nausea, vomiting and diarrhea.

Indication of any immediate medical attention and special treatment needed

: Treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing media

Suitable extinguishing media

 Use media suitable to the surrounding fire such as water fog or fine spray, alcohol foams, carbon dioxide and dry chemical.

Unsuitable extinguishing media

: Do not use a solid water stream as it may scatter and spread fire.

Special hazards arising from the substance or mixture / Conditions of flammability

: Burning may produce irritating, toxic and obnoxious fumes. Contains oxidizers, which may increase the burning rate of combustible materials with flare-burning effect.

Flammability classification (OSHA 29 CFR 1910.106)

: Not flammable.

Hazardous combustion products

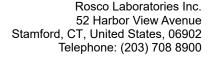
: Ammonia

Special protective equipment and precautions for firefighters

Protective equipment for fire-fighters

: Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

Special fire-fighting procedures





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: Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode. Move containers from fire area if safe to do so. Water spray may be useful in cooling equipment exposed to heat and flame.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

: Restrict access to area until completion of clean-up. Ensure clean-up is conducted by trained personnel only. Wear suitable protective equipment. Refer to protective measures listed in sections 7 and 8. Restrict access to area until completion of clean-up.

Environmental precautions :

Ensure spilled product does not enter drains, sewers, waterways, or confined spaces.

Methods and material for containment and cleaning up

: Ventilate area of release. Stop spill or leak at source if safely possible. Dike for water control. Use only non-sparking tools and equipment in the clean-up process. Contain and absorb spilled liquid with non-combustible, inert absorbent material (e.g. sand), then place absorbent material into a container for later disposal (see Section 13).

Special spill response procedures

If a spill/release in excess of the EPA reportable quantity is made into the environment, immediately notify the National Response Center in the United States (phone: 1-800-424-8802).

US CERCLA Reportable quantity (RQ): See section 15.

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling

: Use only in well-ventilated areas. Wear suitable protective equipment during handling. Avoid breathing vapours or mists. Avoid contact with eyes, skin and clothing. Keep away from extreme heat and flame. Keep away from incompatibles. Keep containers tightly closed when not in use. Wash thoroughly after handling.

Conditions for safe storage :

Store in a cool, dry, well-ventilated area. Store away from incompatible materials. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. Inspect periodically for damage or leaks. No

smoking in the area.

Incompatible materials : Strong acids and oxidizing agents; Strong bases

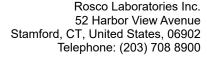
SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits:					
Chemical Name	ACGIH T	ΓLV	OSHA PEL		
	<u>TWA</u>	<u>STEL</u>	<u>PEL</u>	<u>STEL</u>	
Urea	10 mg/m³ (AIHA WEEL)	N/Av	N/Av	N/Av	

Exposure controls

Ventilation and engineering measures

 Use in a well-ventilated area. Use general or local exhaust ventilation to maintain air concentrations below recommended exposure limits.





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Respiratory protection: If airbourne concentrations are above the permissible exposure limit or are not known,

use NIOSH-approved respirators. Advice should be sought from respiratory protection specialists. Respirators should be selected based on the form and concentration of contaminants in air, and in accordance with OSHA (29 CFR 1910.134) or CSA

Z94.4-02.

Skin protection: Gloves impervious to the material are recommended. Advice should be sought from

glove suppliers.

Eye / face protection: Wear safety glasses with side shields (or goggles).

Other protective equipment : Wear sufficient clothing to prevent skin contact. Depending on conditions of use, an

impervious apron should be worn. An eyewash station and safety shower should be

made available in the immediate working area.

General hygiene considerations

: Avoid breathing vapour or mist. Avoid contact with skin, eyes and clothing. Wash contaminated clothing before reuse. Do not eat, drink, smoke or use cosmetics while working with this product. Upon completion of work, wash hands before eating, drinking, smoking or use of toilet facilities. Remove soiled clothing and wash it

thoroughly before reuse. Handle in accordance with good industrial hygiene and safety

practice.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Clear liquid.

Odour : Ammonia odor.

Odour threshold : Not available.

pH : 6.5 Melting Point/Freezing point : 0°C Initial boiling point and boiling range

100°C

Flash point : Not applicable.
Flashpoint (Method) : Not applicable.
Evaporation rate (BuAe = 1) : Not available.
Flammability (solid, gas) : Not applicable.

Lower flammable limit (% by vol.)

Not applicable.

Upper flammable limit (% by vol.)

: Not applicable.

Oxidizing properties : Not applicable
Explosive properties : Not explosive
Vapour pressure : Not available.
Vapour density : Not available.

Relative density / Specific gravity

: 1.08

Solubility in water : Soluble
Other solubility(ies) : Not available.

Partition coefficient: n-octanol/water or Coefficient of water/oil distribution

: Not available.

Auto-ignition temperature : Not applicable.

Decomposition temperature : 100°C Viscosity : 0.605 Volatiles (% by weight) : 87 % Volatile organic Compounds (VOC's)

: Not available.



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Absolute pressure of container

: Not applicable.

Flame projection length : Not applicable.

Other physical/chemical comments

: None known or reported by the manufacturer.

SECTION 10. STABILITY AND REACTIVITY

Reactivity: Not normally reactive.

Chemical stability : Material is stable under normal conditions.

Possibility of hazardous reactions

: Hazardous polymerization does not occur.

Conditions to avoid : Avoid excessive heat, sparks and open flame. Avoid contact with incompatible

materials. Do not use in areas without adequate ventilation. Avoid exposure to light.

Incompatible materials : See Section 7 (Handling and Storage) for further details.

Hazardous decomposition products

: None known, refer to hazardous combustion products in Section 5.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure:

 $\begin{tabular}{lll} \textbf{Routes of entry inhalation} & : & YES \\ \textbf{Routes of entry skin \& eye} & : & YES \\ \textbf{Routes of entry Ingestion} & : & YES \\ \textbf{Routes of exposure skin absorption} \\ \end{tabular}$

: NO

Potential Health Effects:

Signs and symptoms of short-term (acute) exposure

Sign and symptoms Inhalation

If product is heated or mists are formed, inhalation may cause irritation to the nose,

throat and respiratory tract.

Sign and symptoms ingestion

: Ingestion may irritate digestive tract and cause nausea, vomiting and diarrhea. May be

harmful if swallowed.

Sign and symptoms skin : Direct skin contact may result in little or no irritation.

Sign and symptoms eyes : May cause mild transient irritation.

Potential Chronic Health Effects

: Prolonged or repeated contact may cause drying, cracking and defatting of the skin.

Mutagenicity: Not expected to be mutagenic in humans.

Carcinogenicity : No components are listed as carcinogens by ACGIH, IARC, OSHA or NTP.

Reproductive effects & Teratogenicity

: Not expected to cause reproductive effects.

Sensitization to material: Not expected to be a skin or respiratory sensitizer.

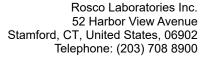
Specific target organ effects: This material is not classified as hazardous under U.S. OSHA regulations (29 CFR

1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products

Regulations) (WHMIS 2015).

Medical conditions aggravated by overexposure

: None known.





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Synergistic materials

: Not available.

Toxicological data

: There is no available data for the product itself, only for the ingredients. See below for

individual ingredient acute toxicity data.

	LC50(4hr)	LDs	0		
Chemical name	inh, rat	(Oral, rat)	(Rabbit, dermal)		
Urea	N/Av	8471 mg/kg	>21000 mg/kg		

Other important toxicological hazards

: None known.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

: Harmful to aquatic life. Do not allow material to contaminate ground water system. See the following tables for individual ingredient ecotoxicity data.

Ecotoxicity data:

<u>Ingredients</u>	040#	Toxicity to Fish				
	CAS#	LC50 / 96h	NOEC / 21 day	M Factor		
Urea	57-13-6	N/Av	N/Av	N/Av		

<u>Ingredients</u>	CAS#	Тох		
		EC50 / 48h	NOEC / 21 day	M Factor
Urea	57-13-6	N/Av	N/Av	N/Av

<u>Ingredients</u>	CAS#	То		
		EC50 / 96h or 72h	NOEC / 96h or 72h	M Factor
Urea	57-13-6	N/Av	N/Av	N/Av

Persistence and degradability

: No information available.

Bioaccumulation potential : No information available.

<u>Components</u>	Partition coefficient n-octanol/water (log Kow)	Bioconcentration factor (BCF)
Urea (CAS 57-13-6)	N/Av	<10

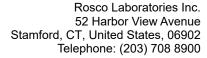
Mobility in soil : No information available.

Other Adverse Environmental effects

: No information available.

SECTION 13. DISPOSAL CONSIDERATIONS

Handling for Disposal: Handle waste according to recommendations in Section 7.





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Methods of Disposal

: Dispose in accordance with all applicable federal, state, provincial and local regulations.

RCRA

: If this product, as supplied, becomes a waste in the United States, it may meet the criteria of a hazardous waste as defined under RCRA, Title 40 CFR 261. It is the responsibility of the waste generator to determine the proper waste identification and disposal method. For disposal of unused or waste material, check with local, state and federal environmental agencies.

SECTION 14. TRANSPORT INFORMATION

Regulatory Information	UN Number	UN proper shipping name	Transport hazard class(es)	Packing Group	Label
49CFR/DOT	None.	Not regulated.	not regulated	none	\otimes
49CFR/DOT Additional information	None.	!			
TDG	None.	Not regulated.	Not regulated	none	\otimes
TDG Additional information	None.	!			
IMDG	None.	Not regulated.	not regulated	none	\otimes
IMDG Additional information	None.				
ICAO/IATA	None.	Not regulated.	not regulated	none	\otimes
ICAO/IATA Additional information	None.	!		!	

Special precautions for user: None known or reported by the manufacturer.

Environmental hazards

This substance does not meet the criteria for an environmentally hazardous substance

according to the IMDG Code. See ECOLOGICAL INFORMATION, Section 12.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

: Not available.

SECTION 15 - REGULATORY INFORMATION

US Federal Information:

Components listed below are present on the following U.S. Federal chemical lists:



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Ingredients CAS #	TSCA Reportab		CERCLA Reportable	SARA TITLE III: Sec. 302, Extremely	SARA TITLE III: Sec. 313, 40 CFR 372, Specific Toxic Chemical		
	CAS#	Inventory	Quantity(RQ) (40 CFR 117.302):	Hazardous Substance, 40 CFR 355:	Toxic Chemical	de minimus Concentration	
Urea	57-13-6	Yes	N/Ap	N/Ap	No	N/Ap	

SARA TITLE III: Sec. 311 and 312 SDS Requirements, 40 CFR 370 Hazard Classes: Not a hazard under normal conditions of use.

All ingredients are listed on the TSCA inventory.

US State Right to Know Laws:

The following chemicals are specifically listed by individual States:

Ingredients	CAS#	California Proposition 65		State "Right to Know" Lists					
<u>g. c</u>		Listed	ted Type of Toxicity CA	MA	MN	NJ	PA	RI	
Urea	57-13-6	No	N/Ap	No	No	Yes	No	No	No

Note: Ammonium bromide (CAS#12124-97-9) is present on the Minnesota "Right-to-Know" list.

Canadian Information:

Canadian Environmental Protection Act (CEPA) information: All ingredients listed appear on the Domestic Substances List (DSL).

International Information:

Components listed below are present on the following International Inventory list:

Ingredients	CAS#	European EINECs	Australia AICS	Philippines PICCS	Japan ENCS	Korea KECI/KECL	China IECSC	NewZealand IOC
Urea	57-13-6	200-315-5	Present	Present	(2)-1732	KE-35144	Present	HSR002808

SECTION 16. OTHER INFORMATION

Legend

: ACGIH: American Conference of Governmental Industrial Hygienists

CAS: Chemical Abstract Services

CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act

of 1980

CFR: Code of Federal Regulations CSA: Canadian Standards Association DOT: Department of Transportation EPA: Environmental Protection Agency

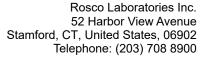
HMIS: Hazardous Materials Identification System HSDB: Hazardous Substances Data Bank

IARC: International Agency for Research on Cancer

Inh: Inhalation

LC: Lethal Concentration LD: Lethal Dose

N/Ap: Not Applicable





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N/Av: Not Available

NFPA: National Fire Protection Association

NIOSH: National Institute of Occupational Safety and Health

NTP: National Toxicology Program

OECD: Organisation for Economic Co-operation and Development

OSHA: Occupational Safety and Health Administration

PEL: Permissible exposure limit

RCRA: Resource Conservation and Recovery Act

RTECS: Registry of Toxic Effects of Chemical Substances SARA:

Superfund Amendments and Reauthorization Act

STEL: Short Term Exposure Limit TLV: Threshold Limit Values TWA: Time Weighted Average

WHMIS: Workplace Hazardous Materials Identification System

References

: 1. ACGIH, Threshold Limit Values for Chemical Substances and Physical Agents &

Biological Exposure Indices

2. ECHA - European Chemical Agency

3. Canadian Centre for Occupational Health and Safety, CCInfoWeb databases

4. Safety Data Sheets from manufacturer.

5. US EPA Title III List of Lists 6. California Proposition 65 List

7. OECD - The Global Portal to Information on Chemical Substances -

eChemPortal

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Revision No.

Revision Information INFORMATION

: (M)SDS sections updated 3. HAZARDS IDENTIFICATION 8. EXPOSURE CONTROLS

/ PERSONAL PROTECTION 15. REGULATORY INFORMATION

Other special considerations for handling

: Provide adequate information, instruction and training for operators.

Prepared for:

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