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# SAFETY DATA SHEET

#### **SECTION 1. IDENTIFICATION**

Product identifier used on the	e la	abel	
	:	Roscoflamex PC	
Other means of identification Recommended use of the cho		: 150079PC0001 Flamex PC Paper- 1 oz. 150079PC0128 Flamex PC Paper & Cardboard- gallon 150079PC0640 Flamex PC Paper & Cardboard- 5 gallon 150079PC5500 Flamex PC Paper- 55 Gal. drum mical and restrictions on use	
Chemical family	-	Flame retardant Recommended restrictions: No Mixture	ne known.
Name, address, and teleph of the supplier:	10	ne number	Name, address, and telephone number of the manufacturer:
Rosco Laboratories Inc.			Refer to supplier
52 Harbor View Avenue Stamford, CT, United States 06902			
Supplier's Telephone #	:	203-708-8900	
24 Hr. Emergency Tel #	:	Chemtrec 1-800-424-9300 (Wit (Outside U.S.).	hin Continental U.S.); Chemtrec 703-527-3887
CECTIONA HAZADDO IDI		TELCATION	

#### SECTION 2. HAZARDS IDENTIFICATION

#### **Classification of the chemical**

Clear liquid. Odourless.

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	<u>CAS #</u>	Concentration (% by weight)
Ammonium amidosulfonate	Ammonium sulfamate	7773-06-0	1.0 - 5.0
Urea	Carbamide	57-13-6	0.1 - 1.0

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 : Do NOT induce vomiting. Have victim rinse mouth with water, then give one to two Ingestion glasses of water to drink. Never give anything by mouth to an unconscious person. Call a physician. : If inhaled, move to fresh air. If breathing is difficult, give oxygen by qualified medical Inhalation personnel only. If breathing has stopped, give artificial respiration. Obtain medical attention if symptoms develop and persist. Wash off immediately with plenty of water. Remove and wash contaminated clothing Skin contact : 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 1 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-FIGHTIN	G 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 medi	a
:	Do not use a solid water stream as it may scatter and spread fire.
Special hazards arising from th	e 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 (OS	HA 29 CFR 1910.106)
:	Not flammable.
Hazardous combustion produc	ts
	Ammonia
Special protective equipment a Protective equipment for fire-fi	
:	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 procedure	S



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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	TLV	<u>OSHA I</u>	PEL
	TWA	<u>STEL</u>	PEL	<u>STEL</u>
Ammonium amidosulfonate	10 mg/m³	N/Av	15 mg/m <sup>3</sup> (total dust); 5 mg/m <sup>3</sup> (Respirable fraction)	N/Av
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 considerati	on	s
	:	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.
рН	:	6.8
Melting Point/Freezing point	:	O°C
Initial boiling point and boili	ng	range
	:	100°C
Flash point	:	Not applicable.
Flashpoint (Method)	:	Not applicable.
Evaporation rate (BuAe = 1)		••
Flammability (solid, gas)		Not applicable.
Lower flammable limit (% by		
	:	Not applicable.
Upper flammable limit (% by	vo	l.)
	:	Not applicable.
Oxidizing properties	:	Not applicable
Explosive properties	:	Not explosive
Vapour pressure	:	Not available.
Vapour density	:	Not available.
Relative density / Specific gr	ravi	ity
	:	1.04
Solubility in water	:	Soluble
Other solubility(ies)	:	Not available.
Partition coefficient: n-octan	ol/	water or Coefficient of water/oil distribution
	:	Not available.
Auto-ignition temperature	:	Not applicable.
Decomposition temperature	:	100°C
Viscosity	:	0.628
Volatiles (% by weight)	:	91 %
Volatile organic Compounds	(V	OC'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 re	eactions		
	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:

Routes of entry inhalation	:	YES
Routes of entry skin & eye	:	YES
Routes of entry Ingestion	:	YES
Routes of exposure skin abso	orp	otion

: 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 ingestior	
	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 Effe	
	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 & Terato	enicity
	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 aggravate	by overexposure
	None known.



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Synergistic materials Toxicological data : Not available.

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

	LC₅₀(4hr)	LD	50
Chemical name	<u>inh, rat</u>	<u>(Oral, rat)</u>	<u>(Rabbit, dermal)</u>
Ammonium amidosulfonate	N/Av	2 g/kg	N/Av
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	
Ammonium amidosulfonate	7773-06-0	> 100mg/L (Oncorhynchus mykiss)	N/Av	N/Av	
Urea	57-13-6	N/Av	N/Av	N/Av	

Ingredients	CAS #	Toxicity to Daphnia				
		EC50 / 48h	NOEC / 21 day	M Factor		
Ammonium amidosulfonate	7773-06-0	> 100mg/L (Daphnia magna)	N/Av	N/Av		
Urea	57-13-6	N/Av	N/Av	N/Av		

Ingredients	CAS #	Toxicity to Algae				Toxicity to Algae		
		EC50 / 96h or 72h	NOEC / 96h or 72h	M Factor				
Ammonium amidosulfonate	7773-06-0	86mg/L (Green algae)	N/Av	N/Av				
Urea	57-13-6	N/Av	N/Av	N/Av				

Persistence and degradability

: No information available.

Bioaccumulation potential : No

: No information available.



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<u>Components</u>	Partition coefficient n-octanol/water (log Kow)	Bioconcentration factor (BCF)					
Urea (CAS 57-13-6)	N/Av	<10					
Ammonium amidosulfonate (CAS 7773-06-0)	-4.34	N/Av					
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.							

	· · · · · · · · · · · · · · · · · · ·
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	$\bigotimes$
49CFR/DOT Additional information	None.	<u>!</u>	!		
TDG	None.	Not regulated.	Not regulated	none	$\bigotimes$
TDG Additional information	None.	1			
IMDG	None.	Not regulated.	not regulated	none	$\bigotimes$
IMDG Additional information	None.				
ICAO/IATA	None.	Not regulated.	not regulated	none	$\bigotimes$
ICAO/IATA Additional information	None.	!	!		-

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



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#### 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:

	0.0.4	TSCA	CERCLA Reportable	SARA TITLE III: Sec. 302, Extremely	SARA TITLE III: Sec. 313, 40 CFR 372, Specific Toxic Chemical		
ingreaients	Ingredients CAS # Inventory Quantity(RQ) (40 CFR 117.302):	Hazardous Substance, 40 CFR 355:	Toxic Chemical	de minimus Concentration			
Ammonium amidosulfonate	7773-06-0	Yes	5000 lb/ 2270 kg	N/Av	No	N/Ap	
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. Under SARA Sections 311 and 312, the EPA has established threshold quantities for the reporting of hazardous chemicals. The current thresholds are 500 pounds or the threshold planning quantity (TPQ), whichever is lower, for extremely hazardous substances and 10,000 pounds for all other hazardous chemicals.

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#	Californi	ia Proposition 65	State "Right to Know" Lists					
<u></u>		Listed	Type of Toxicity	CA	MA	MN	NJ	PA	RI
Ammonium amidosulfonate	7773-06-0	No	N/Ap	Yes	Yes	Yes	Yes	Yes	Yes
Urea	57-13-6	No	N/Ap	No	No	Yes	No	No	No

#### **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
Ammonium amidosulfonate	7773-06-0	231-871-7	Present	Present	(1)-404	KE-01742	Present	HSR002900
Urea	57-13-6	200-315-5	Present	Present	(2)-1732	KE-35144	Present	HSR002808



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**SECTION 16. OTHER INFORMATION** 

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## Legend : ACGIH: American Conference of Governmental Industrial Hygienists CAS: Chemical Abstract Services CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act of 1980

	CERCLA. Completenensive 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 HSDB: Hazardous Substances Data Bank IARC: International Agency for Research on Cancer Inh: Inhalation LC: Lethal Concentration LD: Lethal Dose N/Ap: Not Applicable N/Av: Not Applicable N/Av: Not Available NIOSH: National Institute of Occupational Safety and Health NTP: 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 :	<ol> <li>ACGIH, Threshold Limit Values for Chemical Substances and Physical Agents &amp; Biological Exposure Indices</li> <li>ECHA - European Chemical Agency</li> <li>Canadian Centre for Occupational Health and Safety, CCInfoWeb databases</li> <li>Safety Data Sheets from manufacturer.</li> <li>US EPA Title III List of Lists</li> <li>California Proposition 65 List</li> <li>OECD - The Global Portal to Information on Chemical Substances - eChemPortal</li> </ol>
Preparation Date (mm/dd/yyyy	)
: Reviewed Date SDS (dd/mm/y	: 02/11/2020 vvv)
	27/10/2022
Revision No.	2
Revision Information	PERSONAL PROTECTION 15. REGULATORY INFORMATION
Other special considerations f	or handling
	Provide adequate information instruction and training for operators

: Provide adequate information, instruction and training for operators.



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