



Rosco Laboratories Inc.
52 Harbor View Avenue
Stamford, CT, United States, 06902
Telephone: (203) 708 8900

Roscoflamex DF

SDS Revision Date (dd/mm/yyyy): 28/10/2022

Page 1 of 10

Revision No.: 2

SAFETY DATA SHEET

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006, as amended.

SECTION 1. IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING**1.1 Product identifier : Roscoflamex DF**

Product Code(s) : 150079DF0001 FlamexDF- Delicates - 1 oz.
150079DF0128 FlamexDF- Delicate Fabrics-gallon
150079DF0640 FlamexDF- Delicate Fabrics- 5 gallon
150079DF5500 FlamexDF- Delicate Fabrics- 55 Gal. drum

1.2 Relevant identified uses of the substance or mixture and uses advised against

: Flame retardant
Use pattern: professional use
Restriction on use: None known

1.3 Details of the supplier of the safety data sheet:**Rosco Laboratories Inc.**

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Stamford, CT, United States
06902

Telephone : (203) 708 8900

1.4 Emergency Telephone Number

: In case of a transportation accident, contact CHEMTREC at 1-800-424-9300 or
International at 1-703-527-3887.
Poisons Information Centre: +44 121 507 4123

1.5 National Contact

: Not available.

SECTION 2. HAZARDS IDENTIFICATION**2.1 Classification of the substance or mixture**

Clear liquid. Odorless.

Occupational exposure to the substance or mixture may cause adverse effects. For further information, please refer to section 11 of the SDS. An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

The product is not classified as hazardous according to Regulation (EC) No. 1272/2008.

2.2 Label elements

Hazardous components which must be listed on the label

Hazard pictogram(s)

None required according to Regulation (EC) No. 1272/2008.

Signal word:

None required according to Regulation (EC) No. 1272/2008.


Roscoflamex DF
SDS Revision Date (dd/mm/yyyy): 28/10/2022

Page 2 of 10

Revision No.: 2

SAFETY DATA SHEET

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006, as amended.

Hazard statements:

None required according to Regulation (EC) No. 1272/2008.

Precautionary statements

None required according to Regulation (EC) No. 1272/2008.

2.3 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.

PBT assessment:

This mixture contains no substance(s) above reportable levels which are considered to be persistent, bioaccumulating nor toxic (PBT), or very persistent and very bioaccumulating (vPvB).

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Not applicable

3.2 Mixtures

Chemical nature : Mixture

| Substance name | <u>CAS No</u> | <u>EC No.</u> | <u>Reach Registration No.</u> | <u>% Weight</u> | <u>Classification according to Regulation (EC) nr. 1272/2008</u> | <u>SCL, M-factor, ATE</u> |
|--|---------------|-----------------|---------------------------------------|------------------|--|-----------------------------------|
| Non hazardous, and/or, other components below reportable levels | N/Av | Not applicable. | Not applicable. | 0.0 - 0.0 | not hazardous | Not applicable. |

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4. FIRST-AID MEASURES

4.1 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.

4.1.2 Self-protection for the first aider

- : None known or reported by the manufacturer.

**Roscoflamex DF**

SDS Revision Date (dd/mm/yyyy): 28/10/2022

Page 3 of 10

Revision No.: 2

SAFETY DATA SHEET

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006, as amended.

4.2 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.

4.3 Indication of any immediate medical attention and special treatment needed

- : Treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES**5.1 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.

5.2 Special hazards arising from the substance or mixture

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

5.3 Advice 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

- : 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**6.1 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.

6.2 Environmental precautions

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

6.3 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).

6.4 Reference to other sections

- : Refer to Section 5 for firefighting instructions. Refer to protective measures listed in sections 7 and 8. Refer to Section 13 for disposal of material.

SECTION 7. HANDLING AND STORAGE**7.1 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.

7.2 Conditions for safe storage, including any incompatibilities



Roscoflamex DF

SDS Revision Date (dd/mm/yyyy): 28/10/2022

Page 4 of 10

Revision No.: 2

SAFETY DATA SHEET

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006, as amended.

- : 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.

7.3 Specific end use(s) : Flame retardant

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control Parameters

Exposure Limits:

| <u>Chemical Name</u> | <u>Exposure Limits</u> | <u>Type</u> | <u>Notes</u> |
|---|------------------------|----------------------|--------------|
| Non hazardous, and/or, other components below reportable levels | None known. | European Union (OEL) | None. |

Biological Exposure Indices:

No biological exposure limits noted for the ingredient(s).

8.2 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.

Respiratory protection : In case of inadequate ventilation wear respiratory protection. Advice should be sought from respiratory protection specialists.

Skin protection : Gloves impervious to the material are recommended. Advice should be sought from glove suppliers. The selected protective gloves have to satisfy the specifications of EU Directive 89/689/EEC and the standard EN 374 derived from it.

Eye / face protection : Wear safety glasses with side shields (or goggles). See also EN 166.

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.

8.3 Environmental exposure controls

- : Avoid release to the environment.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

- Physical state** : Clear liquid.
- Colour** : Clear, colorless.
- Odour** : Odorless.
- Odour threshold** : Not available.
- pH** : 6.7

**Roscoflamex DF**

SDS Revision Date (dd/mm/yyyy): 28/10/2022

Page 5 of 10

Revision No.: 2

SAFETY DATA SHEET

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006, as amended.

| | |
|--|-------------------|
| Flash point | : Not applicable. |
| Flashpoint (Method) | : Not applicable. |
| Lower flammable limit (% by vol.) | : Not applicable. |
| Upper flammable limit (% by vol.) | : Not applicable. |
| Auto-ignition temperature | : Not applicable. |
| Decomposition temperature | : 100°C |
| Oxidizing properties | : Not applicable |
| Explosive properties | : Not explosive |
| Initial boiling point and boiling range | : 100°C |
| Melting/Freezing point | : 0°C |
| Relative density | : 1.05 |
| Solubility in water | : Soluble |
| Other solubility(ies) | : Not available. |
| Vapour pressure | : Not available. |
| Vapour density | : Not available. |
| Partition coefficient: n-octanol/water | : Not available. |
| Viscosity | : 0.622 |
| Evaporation rate (BuAe = 1) | : Not available. |
| Particle characteristics | : Not applicable. |

9.2 Other Information

| | |
|---|---|
| Volatiles (% by weight) | : 91 % |
| Volatile organic Compounds (VOC's) | : Not available. |
| Other physical/chemical comments | : None known or reported by the manufacturer. |

SECTION 10. STABILITY AND REACTIVITY

| | |
|--|--|
| 10.1 Reactivity | : Not normally reactive. |
| 10.2 Chemical stability | : Material is stable under normal conditions. |
| 10.3 Possibility of hazardous reactions | : Hazardous polymerization does not occur. |
| 10.4 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. |
| 10.5 Incompatible materials | : Strong acids and oxidizing agents; Strong bases |
| 10.6 Hazardous decomposition products | : In the event of fire the following can be released: Ammonia |



Roscoflamex DF

SDS Revision Date (dd/mm/yyyy): 28/10/2022

Page 6 of 10

Revision No.: 2

SAFETY DATA SHEET

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006, as amended.

SECTION 11. TOXICOLOGICAL INFORMATION

11.1 Information on Toxicological effects:

- Acute toxicity** : According to the classification criteria of the European Union, this product is not considered as being an acutely toxic chemical.
- Skin corrosion/Irritation** : According to the classification criteria of the European Union, the product is not considered as being a skin irritant.
- Serious eye damage/irritation** : According to the classification criteria of the European Union, the product is not considered as being an eye irritant.
- Respiratory or skin sensitisation** : Not expected to be a skin or respiratory sensitizer.
- Germ cell mutagenicity** : Not expected to be mutagenic in humans.
- Carcinogenicity** : No components are listed as carcinogens by ACGIH, IARC, OSHA or NTP.
- Reproductive toxicity** : Not expected to cause reproductive effects.
- STOT-single exposure** : According to the classification criteria of the European Union, this product is not expected to cause target organ toxicity through a single exposure.
- STOT-repeated exposure** : According to the classification criteria of the European Union, this product is not expected to cause target organ toxicity through repeated exposures.
- Aspiration hazard** : According to the classification criteria of the European Union, this product is not considered as being an aspiration hazard to humans.
- Routes of exposure** : Skin contact, eye contact, inhalation.
- Effects of acute exposure** : Inhalation :Mild respiratory irritant
- Eye contact :Direct eye contact may cause slight or mild, transient irritation.
- Skin contact:May cause mild skin irritation on prolonged contact.
- Ingestion: Not an expected route of entry under normal conditions of use.
- Potential Chronic Health Effects** : Prolonged or repeated contact may cause drying, cracking and defatting of the skin.

11.1.1 Acute Toxicity

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

| <u>Chemical name</u> | LC₅₀(4hr) | LD₅₀ | |
|---|-----------------------------|------------------------|-------------------------|
| | <u>inh, rat</u> | <u>(Oral, rat)</u> | <u>(Rabbit, dermal)</u> |
| Non hazardous, and/or, other components below reportable levels | N/Av | N/Av | N/Av |

11.2 Information on other Hazards

- : None known.

SECTION 12. ECOLOGICAL INFORMATION

- 12.1 Toxicity** : Avoid release to the environment. See the following tables for individual ingredient ecotoxicity data.

**Roscoflamex DF**

SDS Revision Date (dd/mm/yyyy): 28/10/2022

Page 7 of 10

Revision No.: 2

SAFETY DATA SHEET

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006, as amended.

Ecotoxicity data:

| <u>Ingredients</u> | CAS No | Toxicity to Fish | | |
|---|--------|------------------|---------------|----------|
| | | LC50 / 96h | NOEC / 21 day | M Factor |
| Non hazardous, and/or, other components below reportable levels | N/Av | N/Av | N/Av | None. |

| <u>Ingredients</u> | CAS No | Toxicity to Daphnia | | |
|---|--------|---------------------|---------------|----------|
| | | EC50 / 48h | NOEC / 21 day | M Factor |
| Non hazardous, and/or, other components below reportable levels | N/Av | N/Av | N/Av | None. |

| <u>Ingredients</u> | CAS No | Toxicity to Algae | | |
|---|--------|-------------------|-------------------|----------|
| | | EC50 / 96h or 72h | NOEC / 96h or 72h | M Factor |
| Non hazardous, and/or, other components below reportable levels | N/Av | N/Av | N/Av | None. |

12.2 Persistence and degradability

: No information available.

12.3 Bioaccumulation potential

: No information available.

Non hazardous, and/or, other components below reportable levels (CAS N/Av)

N/Av

N/Av

12.4 Mobility in soil : No information available.**12.5 Results of PBT and vPvB assessment**

: This mixture contains no substance(s) above reportable levels which are considered to be persistent, bioaccumulating nor toxic (PBT), or very persistent and very bioaccumulating (vPvB).

12.6 Endocrine disrupting properties

: None known or reported by the manufacturer.

12.7 Other Adverse Environmental effects

: No information available.

12.8 Additional information : None known or reported by the manufacturer.

SECTION 13. DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods:**Handling for Disposal** : Handle waste according to recommendations in Section 7.**Methods of Disposal** : Dispose of in accordance with the European Directives on waste and hazardous waste. According to the European Waste Catalogue, Waste Codes are not product specific, but application specific.



Roscoflamex DF

SDS Revision Date (dd/mm/yyyy): 28/10/2022

Page 8 of 10

Revision No.: 2

SAFETY DATA SHEET

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006, as amended.

SECTION 14. TRANSPORTATION INFORMATION

| <i>Regulatory Information</i> | 14.1 UN Number | 14.2 UN proper shipping name | 14.3 Transport hazard class(es) | 14.4 Packing Group | Label |
|---|---|------------------------------|---------------------------------|--------------------|-------|
| IMDG | None. | Not regulated. | not regulated | none | |
| IMDG Additional information | None. | | | | |
| ICAO/IATA | None. | Not regulated. | not regulated | none | |
| ICAO/IATA Additional information | None. | | | | |
| ADR/RID | None. | not regulated | not regulated | none | |
| ADR/RID Additional information | Not classified as dangerous for conveyance in the meaning of the regulations for the transport of dangerous goods by road and rail. | | | | |

14.5 Environmental hazards : This substance does not meet the criteria for an environmentally hazardous substance according to the IMDG Code. See ECOLOGICAL INFORMATION, Section 12.

14.6 Special precautions for user

: None known or reported by the manufacturer.

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

: Not available.

SECTION 15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

: Classification according to Regulation (EC) No. 1272/2008 on the classification of hazardous mixtures.

Authorisations

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorisation, as amended: None of the components are specifically listed.

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use, as amended :None of the components are specifically listed.

Directive 2012/18/EU (Seveso III) on the control of major-accident hazards involving dangerous substances: None of the components are specifically listed.

Directive 94/33/EC on the protection of young people at work: None of the components are specifically listed.

Directive 98/24/EC on the protection of the health and safety of workers from risks related to chemical agents at work: None of the components are specifically listed.

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006, as amended [including Regulation (EU) 2015/830].


Roscoflamex DF
SDS Revision Date (dd/mm/yyyy): 28/10/2022

Page 9 of 10

Revision No.: 2

SAFETY DATA SHEET

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German legislation on water endangering substances VwVwS. Water hazard class (Germany) (0self classified)

15.2 Chemical safety assessment

: A chemical safety assessment has not been carried out by the Manufacturer of this product.

SECTION 16. OTHER INFORMATION

| | |
|---------------|--|
| Legend | : ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road CAS: Chemical Abstract Services CLP: Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures EC: European Community EC50: Effective Concentration 50% ECHA: European Chemicals Agency EEC: European Economic Community IMDG: International Maritime Dangerous Goods LC: Lethal Concentration LD: Lethal Dose NOEC: No observable effect concentration OECD: Organisation for Economic Co-operation and Development OEL: National occupational exposure limits PEL: Permissible exposure limit RID: Regulations concerning the International Carriage of Dangerous Goods by Rail RTECS: Registry of Toxic Effects of Chemical Substances TWA: Time Weighted Average |
|---------------|--|

Information Source : 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.

: 2

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: (M)SDS sections updated 3. COMPOSITION/INFORMATION ON INGREDIENTS 8. EXPOSURE CONTROLS / PERSONAL PROTECTION 11. TOXICOLOGICAL INFORMATION

Regulation and Procedure :

not regulated; Expert judgement

H-phrases (full-text)
None.

Other special considerations for handling

: Provide adequate information, instruction and training for operators.



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Page 10 of 10

Revision No.: 2

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| <p><u>Prepared for:</u> Product Stewardship Department Rosco Laboratories, Inc. 52 Harbor View Avenue Stamford, CT 06902, USA Telephone: +1 (203) 708-8900</p> |  |
| <p><u>Prepared by:</u> ICC The Compliance Center Inc. http://www.thecompliancecenter.com</p> |  |

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