

Material Safety Data Sheet (MSDS) according EU 1907/2006/EG, Article 31



EFIRON UVF UVF-R1000 ; for optical fiber industry application

Prepared on: 13. 08. 2014 Reviewed on: 17. 08. 2014 Printing Date: 17. 08. 2014
Version: 1.0 Page: 1 von 7

1 Identification of the substance/preparation and of the company

Product: EFIRON UVF-R1000
for optical fiber industry application.
Use: Ribbon resin for Glass Optical fiber
Company: Luvantix SSCP USA
Address: 22 Quail Run, Warren, NJ 07059 USA
Phone: +1-732-271-0350
Fax: +1-732-348-9496
Homepage: www.sscpusa.com
E-Mail: info@sscpusa.com

2 Hazards identification

Classification according to EU, for further Information see MSDS



Xi : Irritant

R phrase(s):

R43 May cause sensitization by skin contact.

The usual precautionary measures are avoiding contact of eye and skin, clothing when handling chemicals.

3 Composition/Information on ingredients

3.1 Chemical characterization

UV curable acrylate ribbon resin having low volatilization, high oxidative and moisture stability

3.2 Dangerous components

EC - No.	CAS - No.	Material	Content [%]	Symbol	R - Phrases
235-921-9	13048-33-4	hexamethylene diacrylate	approx. 2%	Xi	43
239-701-3	15625-89-5	Trimethylolpropane	approx. 2%	Xi	43

For further information see section 16.

Material Safety Data Sheet (MSDS) according EU 1907/2006/EG, Article 31



EFIRON UVF UVF-R1000 ; for optical fiber industry application

Prepared on:	13. 08. 2014	Reviewed on:	17. 08. 2014	Printing Date:	17. 08. 2014
Version:	1.0			Page:	2 von 7

4 First aid measures

4.1 General information

Immediately remove any clothing soiled by the product and dispose of safely.

4.2 After inhalation

Move to fresh air in case of accidental inhalation of vapors. If symptoms persist, call a physician.

4.3 After skin contact

Remove contaminated clothing, jewelry, and shoes immediately. Wash with soap or mild detergent and large amounts of water until no evidence of chemical remains (at least 15-20 minutes). And get medical attention immediately.

4.4 After eye contact

Immediately flush eye with water for at least 15 minutes while holding eyelids open. If symptoms develop, seek medical advice.

4.5 After swallowing

Give some glasses of water. Induce vomiting. Seek medical advice immediately.

4.6 Indications for the doctor

Based on the individual reactions of the patient, the physician's judgment should be used to control symptoms and clinical condition.

5 Fire-fighting measures

5.1 Suitable extinguishing media

Regular dry chemical, carbon dioxide, water and regular foam.

5.2 For safety reasons unsuitable extinguishing media

Water with full jet

5.3 Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases

May evolve oxides of carbon (COx) under fire conditions. May evolve oxides of nitrogen (NOx) under fire conditions. Under certain fire conditions the development of traces of other hazardous substances can not be excluded.

5.4 Special protective equipment for fire fighting

Fire fighters should wear NIOSH approved self-contained breathing apparatus and full protective clothing.

5.5 Other information

Product is a fire protection mass. No special measures required.

Material Safety Data Sheet (MSDS) according EU 1907/2006/EG, Article 31



EFIRON UVF UVF-R1000 ; for optical fiber industry application

Prepared on:	13. 08. 2014	Reviewed on:	17. 08. 2014	Printing Date:	17. 08. 2014
Version:	1.0			Page:	3 von 7

6 Accidental release measures

6.1 Person-related safety precautions

Restrict access to area as appropriate until clean-up operations are complete. Stop or reduce any leaks if it is safe to do so. Avoid contact with skin, eyes and clothing. Do not touch spilled material. Use personal protective equipment recommended in Section 8 (Exposure Controls/Personal Protection).

6.2 Measures for environmental protection

Notify fire authorities and appropriate federal, state, and local agencies. Prevent the product from spreading into the environment. Avoid direct discharge into drains. It should not be directly discharged into lakes, ponds, waterways or public water supplies.

6.3 Measures for cleaning/absorption

SMALL SPILLS: Soak up spill with absorbent material. Place residues in a suitable, covered, properly labeled container. Wash affected area.

LARGE SPILLS: Contain liquid using absorbent material, by digging trenches or by building a dike. Reclaim into recovery or salvage drums or tank truck for proper disposal. Clean contaminated surfaces with water or aqueous cleaning agents. Contact an approved waste hauler for disposal of contaminated recovered material. Dispose of all contaminated materials in accordance with current local regulations.

6.4 Other information

-

7 Handling and storage

7.1 Handling

7.1.1 Information for safe handling

Avoid contact with eyes. Do not take internally. Avoid the formation of mists in the atmosphere. Have emergency equipment (for fires, spills, leaks, etc.) readily available.

7.1.2 Information about protection against explosions and fires

No special measures necessary. Product is flame-retarding. Store receptacles upstanding to prevent any leakage.

7.2 Storage

7.2.1 Requirements to be met by storerooms and receptacles

Storage temperatures should not exceed 40°C, preferably 10–30°C. Well varnished floors. Store only in the well sealed original receptacles.

7.2.2 Rules for the mixed storage of chemicals

Do not let have contact with oxidizing materials. Store away from food, beverages and animal feed.

7.2.3 Further information about storage conditions

Protect from heat and direct sunlight.

Material Safety Data Sheet (MSDS) according EU 1907/2006/EG, Article 31



EFIRON UVF UVF-R1000 ; for optical fiber industry application

Prepared on: 13. 08. 2014 **Reviewed on:** 17. 08. 2014 **Printing Date:** 17. 08. 2014
Version: 1.0 **Page:** 4 von 7

8 Exposure Controls/Personal Protection

8.1 Additional information about design of technical systems

If vapor or mist is generated when the material is heated or handled, adequate ventilation in accordance with good engineering practice must be provided to maintain concentrations above the specified exposure or flammable limits.

8.2 Components with limit values that require monitoring at the workplace

-

8.3 Additional information

-

8.4 Personal protective equipment

Respiratory protection: If significant mists, vapors or aerosols are generated an approved respirator is recommended. An organic vapor cartridge with dust/mist prefilter may be used. If respiratory protection is required, institute a complete respiratory protection program including selection, fit testing, training, maintenance and inspection.

Hand protection: Wear appropriate chemical resistant gloves.

Eye protection: Wear splash resistant safety goggles with a face shield.

Body protection: Wear appropriate chemical resistant clothing. Remove any chemical soaked clothing immediately.

General protective and hygienic measures: Use good work and personal hygiene practices to avoid exposure. Consider the provision in the work area of a safety shower and eyewash. Always wash thoroughly after handling chemicals. When handling this product never eat, drink or smoke.

9 Physical and Chemical Properties

9.1 Appearance

Form: liquid
Colour: clear
Odour: odorless

9.2 Safety parameters

ph - Value 20 °C: n. d.

Change of state

Boiling point/boiling range: n. d.
Melting point/melting range: n. d.

Flash point: 119 °C
Inflammability: n. a.
(Solid):
(Gas):

Material Safety Data Sheet (MSDS) according EU 1907/2006/EG, Article 31



EFIRON UVF UVF-R1000 ; for optical fiber industry application

Prepared on:	13. 08. 2014	Reviewed on:	17. 08. 2014	Printing Date:	17. 08. 2014
Version:	1.0			Page:	5 von 7

Ignition temperature:	n. a.
Self igniting: (Solid): (Gas):	n. a.
Oxidizing properties:	none
Danger of explosion:	none
Explosion limits: LEL: Vol. - % UEL: Vol. - %	n. a.
Vapour pressure at 20 °C:	n. a.
Density at 20°C:	approx. 1.12g/cm ³
Solubility: Water at ... °C: Fat at ... °C:	Soluble in organic solvents.
Partition coefficient n-Octanol/Water (log p_{OW}):	n. d.
Viscosity at 20 – 22 °C:	approx. 5000 cPs (BROOKFIELD LVDVIII)
Solvent content:	-

10 Stability and reactivity

10.1 Conditions to be avoided

Avoid overheating and flames.
Strong alkaline compounds. Lewis acid (AlCl₃, SbF₅, CoF₃) above 100°C.

10.2 Materials to be avoided

Sodium hydroxide, potassium hydroxide, aqueous ammonia, aluminum chloride, antimony fluoride and cobalt fluoride

10.3 Hazardous decomposition products

Acrid smoke-fumes/carbon monoxide/carbon dioxide and perhaps other toxic vapors may be released during a fire involving this product.

10.4 Thermal decomposition

No decomposition if stored and applied as directed.

Material Safety Data Sheet (MSDS) according EU 1907/2006/EG, Article 31



EFIRON UVF UVF-R1000 ; for optical fiber industry application

Prepared on:	13. 08. 2014	Reviewed on:	17. 08. 2014	Printing Date:	17. 08. 2014
Version:	1.0			Page:	6 von 7

11 Toxicological information

General notes

No toxicological data are available. None of the substances in this product are listed as human carcinogens by the International Agency for Research on Cancer (IARC), the National Toxicology Program (NTP) or the American Conference of Governmental Industrial Hygienists (ACGIH). A long-term experience has shown that - in case of proper use and application as intended - no injurious occur.

12 Ecological information

General notes

Do not allow product to reach ground water, water course or sewage system.
Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.
May cause long-term adverse effects in the aquatic environment.

13 Disposal considerations

13.1 Product

13.1.1 Recommendation

All disposals must comply with federal, state, and local regulations. The material, if spilled or discarded, may be a regulated waste. Refer to state and local regulations.

13.1.2 European waste code

Wastes from the MFSU and removal of resin. Wastes not otherwise specified.

13.2 Contaminated packaging

13.2.1 Recommendation

The bottled must be optimally emptied and be disposed of in compliance with country-specific regulations. Not cleanable packaging must be disposed of like the product.

13.2.2 Recommended cleaning agent

-

13.2.3 European waste code

15 01 02 -plastic packaging

The aforementioned waste codes are recommendations based on the expected application of the product. Because of the special application and disposal conditions of the user, if need be, also other waste codes may be possible.

Material Safety Data Sheet (MSDS) according EU 1907/2006/EG, Article 31



EFIRON UVF UVF-R1000 ; for optical fiber industry application

Prepared on:	13. 08. 2014	Reviewed on:	17. 08. 2014	Printing Date:	17. 08. 2014
Version:	1.0	Page:			7 von 7

14 Transport information

Keep containers tightly closed. No hazardous product according to transport classifications.

15 Regulatory information

15.1 Labelling according to EC Directives/Gefahrstoffverordnung

No labelling according to the EU regulations.

15.2 R-Phrases:

R43 May cause sensitization by skin contact.

S-Phrases:

S2 Keep out of the reach of children.

S39 Wear eye/face protection.

15.3 Water hazard class (german classification)

1 - slightly hazardous for water (self assessment)

15.4 Further regulations

-

16 Other Information

16.1 Further information

The above information is believed to be correct but does not propose to be all inclusive and shall be used only as a guide. SSCP CO., LTD. shall not be held liable for any damage resulting from handling or from contact with the above product. Each individual should make a determination as to the suitability of the information for their particular purpose(s). Various government agencies may have specific regulations regarding the transportation, handling, storage, use, or disposal of this product which may not be covered by this MSDS. The user is responsible for full compliance.

16.2 Full text of the R-Phrases in chapter 2

Xi Irritant

R 43 May cause sensitization by skin contact.