

MATERIAL SAFETY DATA SHEET

No. R-1972E-01

Identity (As Used on Label and List)

- **Date Prepared:** May 21, 2010
- **Date Revised:**

LUMIFLON LF9721

1. PRODUCT AND COMPANY INFORMATION

Product Name: LUMIFLON LF9721

Synonym: Fluoropolymer varnish

General Use: paints

MSDS Number: R-1972E

Manufacturer

Company Name: ASAHI GLASS CO., LTD. Chemicals Company Fluorochemicals Division

Address: 1-12-1, Yurakucho, Chiyoda-ku, Tokyo, 100-8405, Japan

Telephone No.: +81-3-3218-5574

Facsimile No.: +81-3-3218-7843

Supplier

Company Name: AGC Chemicals Americas, Inc.

Address: 55 East Uwchlan Ave. Suite 201, Exton, PA 19341, USA

24 Hour Medical Emergency Telephone #: (800)420-8479

24 Hour Transportation Emergency # (CHEMTREC): (800) 424-9300

Customer Service Number: (800) 424-7833

2. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS No.	%
Fluoropolymer	Trade Secret	70
Ethyl-3-ethoxypropionate	763-69-9	30

OSHA Hazardous Components (29 CFR 1910.1200)

Ethyl-3-ethoxypropionate is hazardous component.

3. HAZARDS IDENTIFICATION

Emergency overview

Flammable liquid

May be harmful by inhalation, ingestion, or skin absorption.

Potential Health Effects

- **Eye Contact:**
Liquid splashes and high vapor concentrations are irritant to the eyes.
- **Skin Contact:**
Can be absorbed through skin. Repeated exposure to the liquid may give rise to cracking and defacing of the skin, possibly leading to irritation.
- **Inhalation:**
May cause irritation to the respiratory tract. High vapor concentrations may cause headaches nausea, drizzling, loss of co-ordination and can lead to olfactory fatigue. Inhalation of droplets can lead to pneumonitis.
- **Ingestion:**
Do not induce vomiting. Never give anything by mouth to someone who is unconscious or convulsing. If the victim is responsive, give him one or two glasses of milk or water. And refer for medical attention.

4. FIRST AID MEASURES

- **Inhalation:** Remove to fresh air. Seek medical attention.
- **Skin contact:** Remove contaminated clothing immediately and wash affected skin with soap and water. Seek medical attention.
- **Eye contact:** Flush eyes with plenty of water for at least 15 minutes, Get medical aid immediately.
- **Ingestion:** Wash mouth out with water; give half pint water to drink. Do not induce vomiting. Get medical aid immediately.

5. FIRE-FIGHTING MEASURES

- **Suitable extinguishing media:** Foam, Dry chemicals, CO2
- **Unsuitable extinguish media/methods:** DO NOT USE WATER!
- **Hazardous combustion product or gases:** Toxic by-product, including HF, HCl may be formed.
- **Special protective equipment for fire fighters:** Wear self-contained breathing apparatus in confined areas or when exposed to combustion products.
- **Additional information:** Keep containers cool by spraying with water if exposed to fire. Do not use water jet.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:

Keep public away.

Ensure adequate ventilation.

Use personal protective clothing

Environmental precautions:

Shut off source of ignition and ventilate spill area.

Do not wash away into shower or waterway.

Methods for cleaning up/taking up:

Absorb or contain liquid with inert material and dispose of in accordance with applicable regulations.

Use suitable absorbent materials such as vermiculite, sand, or clay to clean up residual liquids.

Additional information:

Information for safe handling looks up chapter 7.

Information for disposal looks up chapter 13.

7. HANDLING AND STORAGE

Handling

Avoid contact with skin and eyes. Atmospheric levels of vapor should be maintained as low as reasonably possible and below the Occupational Exposure Limit.

Shut off all gas pilot and electrical (spark or hot wire) igniters and other sources of ignition during use and until all vapors (odors) are gone.

Prevent build-up of electrostatic charges (e.g. by grounding).

Storage

Floor surface of storage place should be made of non-permeable materials to the ground such as concrete. No fire and smoking in area of storage.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

Ingredients with occupational exposure limits to be monitored

N/A

Exposure controls

Occupational exposure controls

Engineering Controls:

Use local exhaust when large amounts are released.

Personal protection:

- **Respiratory protection:** Chemical cartridge respirator with an organic vapor cartridge.
- **Eye /Skin protection:** Wear safety glasses. Wear coverall chemical splash goggles and face shield when possibility exists for eye and face contact due to splashing or spraying.

9. PHYSICAL AND CHEMICAL PROPERTIES

- **Appearance and Odor:** Clear ,Colorless liquid
- **Boiling Point :** 170deg.C (338deg.F) (Ethyl-3-ethoxypropionate)
- **Flash Point (Method Used):** 59deg.C (138deg.F) (Ethyl-3-ethoxypropionate)
LEL= 1.05(88deg.C(190deg.F))vol% **UEL=** 12.1(120deg.C(248deg.F))
(Ethyl-3-ethoxypropionate)
- **Specific Gravity :** 0.95 g/cm³ (Ethyl-3-ethoxypropionate)
- **Vapor Pressure :** <133.2 Pa at 20deg.C (Ethyl-3-ethoxypropionate)
- **Melting Point :<**-100deg.C (-148deg.F) (Ethyl-3-ethoxypropionate)
- **Vapor Density(Air = 1) :** N/D
- **Evaporation Rate (Ethyl ether = 1) :** 0.12
- **Solubility in Water :1.6 %** (20deg.C) (Ethyl-3-ethoxypropionate)

10. STABILITY AND REACTIVITY

Conditions to avoid: over heating

Stability: Stable under normal temperature and pressure.

Materials to avoid (Incompatibilities): Strong oxidizing agents, Strong Reducing agents, Strong bases.

Hazardous decomposition products:

N/D

Hazardous polymerization

Will not occur.

11. TOXICOLOGICAL INFORMATION

Acute toxicity: N/D

LD50 oral (rat): 5000mg/kg (Ethyl-3-ethoxypropionate)

Health Hazardous (Acute and Chronic)

Exposure to high vapor concentrations can lead to kidney and liver damage.

Sensitization: N/D

Mutagenicity: N/D

cf. Ethyl-3-ethoxypropionate MSDS (The Dow chemical company)

Irritation

Skin: Rabbit; 4h uncovered

Results: minor erythema and edema in 1/6

Eye: Rabbit; 0.1ml

Results: iritis; minor conjunctiva irritation with significant discharge ; no corneal injury

12. ECOLOGICAL INFORMATION

Biodegradability: N/D

Bioaccumulation: N/D

Other information: N/D

13. DISPOSAL CONSIDERATIONS

Waste resin solution should be poured on to an impermeable area of ground in a suitably remote spot.

Comply with all federal, state and local regulations.

Do not dump this product into sewers, on the ground or into any body of water.

14. TRANSPORT INFORMATION

US DEPARTMENT OF TRANSPORTATION (DOT)

Hazardous Materials: Yes

Hazardous Materials Description and Proper Shipping Name: RESIN SOLUTION

Hazardous Class or Division: 3

Identification Number: UN1866

Packing Group: III

Label(s) Required: 3

Sea transport

IMDG

Class: 3

Packing Group: III

UN Number: 1866

Proper Shipping Name: RESIN SOLUTION

Marine Pollutant: No

Air transport

ICAO/IATA

Class: 3

Packing Group: III

UN Number: 1866

Proper Shipping Name: RESIN SOLUTION

15. REGULATORY INFORMATION

OSHA STATUS: This product is hazardous under 29 CFR 1910.1200.

TSCA STATUS: All components are in full compliance with TSCA Inventory Regulations.

CERCLA/SUPERFUND (40 CFR 117, 302)

N/A

SARA TITLE III

SECTION 302(40 CFR 355): Not applicable

SECTION 311/312(40 CFR 370): Acute Health Hazard, Chronic Health Hazard, Fire Hazard

SECTION 313(40 CFR 372): Not applicable

Ensure this material in compliance with federal requirements and ensure conformity to local regulations.

16. OTHER INFORMATION

- **N/E:** Not Established
- **N/A:** Not Applicable
- **N/D:** No Data
- **ACGIH:** American Conference of Governmental Industrial Hygienists
- **T.C.C.:** Tag Closed Cup
- **C.O.C.:** Cleveland Open Cup

NFPA CODES

Flammability	Hazard	Instability
2	1	2

Revision Summary:

The product is not designed for special applications such as pharmaceutical, medical use.

The information given in this safety data sheet is for safety purposes only. It is given in good faith and based on the best knowledge and experience of the company at the date of issuing.

The company is not responsible for any loss or damage caused by the use of the product in applications for which it was not intended or for conditions of use contrary to the recommendations in this safety data sheet.
