

# SAFETY DATA SHEET

SDS No. J-2990HCS-02

- **Date Prepared:** October 20, 2014
- **Date Revised:** January 20, 2016

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## LUMIFLON LF910LM

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### 1. IDENTIFICATION

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**Product Name:** LUMIFLON LF910LM  
**Synonym:** Fluoropolymer varnish  
**Recommended use of the chemicals:** Paints  
**MSDS Number:** J-2990HCS

#### Manufacturer

**Company Name:** ASAHI GLASS CO., LTD.  
**Address:** 1-5-1, Marunouchi, Chiyoda-ku, Tokyo 100-8405, Japan  
**Telephone Number for Information:** +81(0)3-3218-5040  
**Facsimile Number for Information:** +81(0)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

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### 2. HAZARDS IDENTIFICATION

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#### The hazard classification

Flammable liquid: Category 3  
Skin corrosion and irritation: Category 2  
Serious eye damage and eye irritation: Category 2A  
Carcinogenicity: Category 2  
Reproductive toxicity: Category 1B  
Specific target organ systemic toxicity after single exposure: Category 1 and 3  
Specific target organ systemic toxicity after repeated exposure: Category 1  
Aspiration toxicity: Category 1

#### Signal word

Danger

#### Hazard statements

H226 Flammable liquid and vapour.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H351 Suspected of causing cancer.  
H360 May damage fertility or the unborn child.  
H370 Causes damage to organs. (liver, respiratory tract, kidney , nerve)

H335 May cause respiratory irritation.  
H336 May cause drowsiness and dizziness.  
H372 Causes damage to organs ( respiratory, nervous system) thorough prolonged or repeated exposure.  
H304 May be fatal if swallowed and enters airways

**Pictograms**



**Precautionary statements**

P210 Keep away from heat/sparks/open flames/hot surfaces. — No smoking.  
P332+P313 If skin irritation occurs: Get medical advice/attention..  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P270 Do not eat, drink or smoke when using this product.  
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

**Description of any hazards not otherwise classified**

Carbonyl fluoride and hydrogen fluoride may be evolved when the product is burned.  
Inhalation of fumes from overheating the product may cause eye, nose, throat and lung irritation.  
Inhalation of low concentration of Hydrogen Fluoride can initially include symptoms of choking, cyanosis and pulmonary edema.

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**3. COMPOSITION/INFORMATION ON INGREDIENTS**

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Components	CAS No.	%
Fluoropolymer	Trade Secret	66
Xylene	1330-20-7	18
Ethylbenzene	100-41-4	16

**OSHA Hazardous Components (29 CFR 1910.1200)**

Xylene, Ethylbenzene are hazardous components.

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**4. FIRST AID MEASURES**

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- **Inhalation:**  
Remove victims to fresh air. Seek medical attention.
- **Skin contact:**  
Remove contaminated clothing and wash well affected skin with plenty of soap and water. Seek medical attention.
- **Eye contact:**  
Flush eyes including eyelids, with plenty of water for at least 15 minutes. Get medical attention.

- **Ingestion:**  
Wash mouth out with water; give half pint water to drink. Don't induce vomiting unless directed to do by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention.

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## 5. FIRE-FIGHTING MEASURES

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- **Suitable extinguishing media:** Foam, Dry chemicals, CO<sub>2</sub>
- **Unsuitable extinguish media/methods:** DO NOT USE WATER!
- **Hazardous combustion product or gases:** If involved in a fire or if overheated, there is a risk of generation of toxic degradation products such as: hydrogen chloride, hydrogen fluoride, carbonyl fluoride, carbon monoxide, and carbon dioxide.
- **Special protective equipment for fire fighters:** Wear self-contained breathing apparatus in confined areas or when exposed to combustion products.
- **Additional information:** Move container from fire areas if it can be done without risk. Cool containers with water spray.

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## 6. ACCIDENTAL RELEASE MEASURES

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### 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.

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## 7. HANDLING AND STORAGE

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### 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.  
Keeping at temperature not exceeding 25deg.C(77deg.F) is preferred when storing it for a long term.

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## 8. EXPOSURE CONTROL / PERSONAL PROTECTION

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### Ingredients with occupational exposure limits to be monitored

Chemical name	OSHA (1993)	ACGIH (2015)	NIOSH
Xylene	PEL-TWA: 100ppm	TLV-TWA: 100ppm STEL 150ppm	REL: TWA 100 ppm (435 mg/m <sup>3</sup> ) ST 150 ppm (655 mg/m <sup>3</sup> )
Ethylbenzene	PEL-TWA: 100ppm	TLV-TWA: 20ppm	REL: TWA100ppm (435 mg/m <sup>3</sup> ) ST 125ppm (545 mg/m <sup>3</sup> )

### Exposure controls

#### Occupational exposure controls

##### Engineering Controls:

Use with appropriate local exhaust ventilation.

### Personal protection:

**Respiratory protection:** Chemical cartridge respirator with an organic vapor cartridge.

**Hand protection:** Impermeable gloves

**Skin protection:** Suits as needed by the circumstance of use.

**Eye protection:** Safety glass, goggles, face shield

**Additional recommendations:** Eye wash and safety shower should be ready for use.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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- **Appearance and Odor:** Transparency liquid, Color No.2MAX(Gardner)
- **Chemical Formula:** Trade Secret
- **Flash Point (method):** 26.2deg.C(79.16deg.F) (Tagliabue(Tag)Closed Cup)
- **Lower Explosive Limit:** 1-1.1vol% ( Xylene )
- **Upper Explosive Limit:** 7-7.6vol% ( Xylene)
- **Autoignition Temperature:** 464-564deg.C(867.2-1047.2deg.F) ( Xylene )
- **Boiling Point:** 136deg.C (276.8deg.F) (Ethylbenzene)
- **Melting Point:** N/D
- **Vapor Pressure (20deg.C):** N/D
- **Specific Gravity:** 1.15-1.19
- **Solubility (20deg.C) in water:** insoluble (Fluoropolymer)
- **pH value (20deg.C):** N/A
- **Partition Coefficient:** N/D
- **Viscosity(Stokes)(25deg.C):** 3.5-8.0cm<sup>2</sup>/s
- **Solvent content:** Xylene 18%, Ethylbenzene 16%

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## 10. STABILITY AND REACTIVITY

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**Conditions to avoid:** Overheating and cooling

**Stability:** Stable under normal temperature and pressure.

**Materials to avoid (Incompatibilities):** Strong oxidizing agents, strong reducing agents, strong bases.

**Hazardous decomposition products:** In a fire situation, hydrogen chloride, hydrogen fluoride, carbonyl fluoride, carbon monoxide and carbon dioxide may liberate.

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## 11. TOXICOLOGICAL INFORMATION

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**Acute toxicity:** N/D

**Genetic studies:**

Ames Assay: N/D

**Other information (solvents)**

**Acute toxicity:**

Skin Irritation (rabbit): 500mg/24h MODERATE (Standard Draize Test) (Xylene)

Eye Irritation (rabbit): 5mg/24h SEVERE (Standard Draize Test) (Xylene), 500mg SEVERE (Standard Draize Test) (Ethylbenzene)

LD50 oral (rat): 4.3 g/kg (Xylene), 3.5 g/kg (Ethylbenzene)

LC50 (rat): 5000 ppm/4h (Xylene)

**Genetic studies:**

Chromosome aberration test (CHO): negative (NTP 1987) (Xylene), negative (NTP 1984) (Ethylbenzene)

Sister chromatid exchange test (CHO): negative (NTP 1987) (Xylene), negative (NTP 1984) (Ethylbenzene)

Mouse Lymphoma Cells: positive (NTP 1986) (Ethylbenzene)

Salmonella assays: negative (NTP 1984) (Ethylbenzene)

**Carcinogenicity**

Ethylbenzene IARC:2B

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## 12. ECOLOGICAL INFORMATION

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**Biodegradability:** N/D

**Bioaccumulation:** N/D

**Other information:** N/D

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## 13. DISPOSAL CONSIDERATIONS

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Reuse when possible the residual product. Send waste product for thermal destruction, using high-temperature incinerators designed to burn fluorine compounds.

Because of a flash point below 60deg.C (140 degrees Fahrenheit), discarded product is a hazardous waste, No.D001, under RCRA, 40CFR 261.21.

Reuse containers when possible, after thorough washing. Dispose of waste containers to authorized landfill, in accordance with local laws and regulations.

Comply with all federal, state and local regulations.

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

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## 14. TRANSPORT INFORMATION

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### US DEPARTMENT OF TRANSPORTATION (DOT)

**Hazardous Materials:** Yes

**Hazardous Materials Description and Proper Shipping Name:** RESIN SOLUTION, flammable

**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, flammable

**Marine Pollutant:** No

### Air transport

**ICAO/IATA**

**Class:** 3

**Packing Group:** III

**UN Number:** 1866

**Proper Shipping Name:** RESIN SOLUTION, flammable

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## 15. REGULATORY INFORMATION

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

**TSCA STATUS:** All components are listed on the TSCA Inventory.

**CERCLA/SUPERFUND ( 40 CFR 117, 302 )**

None of the Chemicals in this product have a TPQ.

Name	CERCLA/SERA-hazardous substances and their Reportable Quantities
Xylene	=100 lb (45.4kg) final RQ
Ethyl Benzene	=1000 lb (454kg) final RQ

### 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):** Ethylbenzene, Xylene

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

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## 16. OTHER INFORMATION

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- **N/E:** Not Established
- **N/A:** Not Applicable
- **N/D:** No Data
- **ACGIH:** American Conference of Governmental Industrial Hygienists

NFPA CODES

Flammability	Hazard	Instability
3	1	1

Revision Summary: updated according to 29CFR 1910.1200(g), section 3(2016.1)

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.

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