

# Designer Molecules, Inc.

## Safety Data Sheet

Product: ILR-1399  
MSDS ID: R1399

Revised Date: 01/02/25  
Replaces Date: 04/24/23

### 1. Product and Company Identification

Product Code: R1399  
Trade Name: ILR-1399 (R&D Designation FM21-8)  
Product Type: Polyimide Resin (~24% w/w) in Anisole  
Recommended Use: Thermoset resin  
Restrictions: None identified  
Company: Designer Molecules, Inc.  
10080 Willow Creek Rd.  
San Diego, CA 92131  
Telephone: 858-348-1122

Emergency phone number (spill, leak, fire, exposure or accident):  
US Domestic (800) 535-5053 (INFOTRAC) Includes Canada and Mexico  
International +1 (352) 323-3500  
China Specific (86) 400-120-0761  
Germany Specific (49) 0800-181-2924  
Australia Specific (61) 1-300-366-961

### 2. Hazards Identification

#### EMERGENCY OVERVIEW:

#### GHS Classification:

Flammable liquid	Category 3
Acute aquatic toxicity	Category 2
Skin Corrosion /Irritation	Category 2
Serious Eye Damage /Eye Irritation	Category 2B
Respiratory or Skin Sensitization	Category 1

#### PICTOGRAM



#### SIGNAL WORD

Danger

#### HAZARD STATEMENT(S)

H226	Flammable liquid and vapor.
H317	May cause an allergic skin reaction
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H401	Toxic to aquatic life.

#### PRECAUTIONARY STATEMENT(S)

P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P233	Keep container tightly closed.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ventilating/ lighting/ equipment.

# Designer Molecules, Inc.

## Safety Data Sheet

Product: ILR-1399  
MSDS ID: R1399

Revised Date: 01/02/25  
Replaces Date: 04/24/23

P242 Use only non-sparking tools.  
P243 Take precautionary measures against static discharge  
P280 Wear protective gloves/ eye protection/ face protection.  
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.  
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.  
P403 + P235 Store in well ventilated place. Keep cool.  
P501 Dispose of content/ containers to an approved waste disposal plant.

### 3. Composition On Ingredients

**SUBSTANCE / MIXTURE** MIXTURE  
**GENERIC NAME** FM21-8, Resin solution

INGREDIENT	Modified Polyimide Resin	Anisole
RATIO	20 - 30 wt%	70 - 80 wt%
CAS REGISTRY No.	3027864-14-5	100-66-3

### 4. First Aid Measures

#### GENERAL ADVICE:

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

#### INHALATION

Remove the victim to fresh air. If not breathing, give artificial respiration. Consult a physician.

#### SKIN CONTACT

Remove all contaminated clothing, shoes and socks from the affected areas as quickly as possible. Wash the affected area under tepid running water using a mild soap.

#### EYE CONTACT

Gently rinse the affected eyes with clean water for at least 15 minutes. Arrange for transport to the nearest medical facility for examination and treatment by a physician as soon as possible.

#### INGESTION

Do not induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

### 5. Fire and Explosion Hazard Data

#### SPECIFIC HAZARDS WITH REGARD TO FIRE-EXTINGUISHING MEASURES

Shut off the supply. Use extinguishing equipment from the up-wind side. If necessary, wear protective clothing including a breathing apparatus.

If the fire extends to the surrounding, cool the facilities by splaying with water. Immediately move containers to safe place if possible.

#### EXTINGUISHING MEDIA

In case of fire use dry sand, alcohol-resistant foam, dry chemical powder, carbon dioxide, foam

# Designer Molecules, Inc.

## Safety Data Sheet

Product: ILR-1399  
MSDS ID: R1399

Revised Date: 01/02/25  
Replaces Date: 04/24/23

### 6. Accidental Release Measures

#### CAUTIONS FOR PERSONNEL

Wear proper equipment and avoid contact with skin and inhalation of vapor. Keep personnel away from downwind of any fire. Shut off all sources of ignition.

#### CAUTIONS FOR ENVIRONMENT

Prevent spills from entering waterways.

#### REMOVAL MEASURE

Shut off the leakage source to stop the leakage. For small spill, absorb spill with absorbent and collect in chemical waste container. For large spill, prevent contamination of surrounding area and move material to a safe place for collection.

#### PREVENTION OF SECOND ACCIDENT

Remove nearby sources of ignition and prepare extinguishing media.

### 7. Handling and Storage

#### HANDLING

##### Engineering measures

Wear proper protective equipment to prevent contact with skin or inhalation of the vapor. Pay attention to fire

##### Cautions for safety handling

Use with an enclosed system or a local exhaust ventilation.

#### STORAGE

##### Adequate storage condition

Store below 5 degree C, keep package tightly closed. Bring to room temperature before use.

Avoid direct rays from the sun. No fire.

##### Safety adequate container materials

Glass, plastic

### 8. Exposure Controls and Personal Protection Measures

#### CONTROL PARAMETERS

##### COMPONENTS WITH WORKPLACE CONTROL LIMITS

Contains no substances with occupational exposure limit values.

##### ENGINEERING MEASURES

Use only with adequate ventilation and in closed systems.

##### PERSONAL PROTECTIVE EQUIPMENT

##### RESPIRATORY PROTECTION

If necessary, wear chemical cartridge respirator with an organic vapor cartage.

##### EYE PROTECTION

Safety goggles

##### HAND PROTECTION

Organic solvents resistant gloves

##### SKIN AND BODY PROTECTION

Protective clothing, protective boots

# Designer Molecules, Inc.

## Safety Data Sheet

Product: ILR-1399  
MSDS ID: R1399

Revised Date: 01/02/25  
Replaces Date: 04/24/23

### 9. Physical / Chemical Characteristics

APPEARLANCE, PHYSICAL STATE, COLOR, ODOR

Liquid, clear, yellow/amber, sweet odor

SPECIFIC TEMPERATURE or TEMPERATURE OF PHYSICAL CONDITIONS CHANGE

Boiling point	154°C <Anisole>
Melting point	-37°C <Anisole>
FLASH POINT	51.7°C <Anisole>
EXPLISION LIMIT	No data available
VAPOR PRESSURE	4.679 hPa (20°C) <Anisole>
VAPOR DENSITY	3.73 <Anisole>
SPECIFIC GRAVITY	0.995 g/ml (20°C) <Anisole>
SOLUBILITY	Water ; 1.71 g/l <Anisole>

### 10. Reactivity Hazard Data

STABILITY	May polymerized on high temperature condition
REACTIVITY	Strong bases, strong acids, strong oxidizers, or radical initiator
INCOMPATIBILITY	Strong bases, strong acids, strong oxidizers, or radical initiator
HAZARDOUS DECOMPOSITION PRODUCTS	Carbon monoxide

### 11. Toxicological Information

Acute Toxicity (Oral)	LD50 Oral – Rat – 3,700 mg/kg <Anisole>
Acute Toxicity (Dermal)	Not Classified
Acute Toxicity (Gases)	Not Applicable
Acute Toxicity (Vapors)	Not Classified
Acute Toxicity (Dusts and Mists)	Not Classified
Skin Corrosion /Irritation	(Category 2) Causes skin irritation. The mixture contains $\geq 3\%$ of an ingredient which is irritant (category 2) and for which additivity may not apply.
Serious Eye Damage /Eye Irritation	Not Classified
Respiratory or Skin Sensitization	(Category 1) May Cause an allergic skin reaction. The mixture contains one or more ingredients classified as a skin sensitizer at $\geq 1\%$ .
Germ Cell Mutagenicity	Not Classified
Carcinogenicity	Not Classified
Reproductive Toxicity	Not Classified
Specific Target Organ Toxicity (Single Exposure)	Not Classified
Specific Target Organ Toxicity (Repeated Exposure)	Not Classified
Aspiration Hazard	Not Classified

### 12. Ecological Information

Hazardous to the Aquatic Environment (Acute)	Category 2.
Hazardous to the Aquatic Environment (Chronic)	Not Classified

# Designer Molecules, Inc.

## Safety Data Sheet

Product: ILR-1399  
MSDS ID: R1399

Revised Date: 01/02/25  
Replaces Date: 04/24/23

### 13. Disposal Considerations

This combustible material may be burned in a chemical incinerator equipped with an afterburner and scrubber. Follow all regulations in your country.

### 14. Transport Information

#### DOT (US):

UN-Number: 1993 Class:3 Packing group: III  
Proper shipping name: Flammable liquid, n.o.s. (Anisole)  
Reportable Quantity (RQ):  
Marine pollutant: No  
Poison Inhalation Hazard: No

#### IMDG:

UN number: 1993 Class: 3 Packing group: III  
Proper shipping name: Flammable liquid, n.o.s. (Anisole)  
Marine pollutant: No

#### IATA:

UN number: 1993 Class: 3 Packing group: III  
Proper shipping name: Flammable liquid, n.o.s. (Anisole)

### 15. Regulatory Information

#### TSCA Status:

One component of the mixture is not listed on the TSCA inventory. For R&D use only

#### SARA 302 Components:

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

#### SARA 313 Components:

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

#### SARA 311/312 Hazards:

Acute health hazard

#### CALIFORNIA PROPOSITION 65:

This product does not contain any chemicals that are known to the State of California to cause cancer, birth defects or other reproductive harm.

### 16. Other Information

The opinions expressed herein are those of qualified experts within Designer Molecules Inc. We believe that the information contained herein is current, as of the date of this MSDS. Because the use of this information and of these opinions, and the conditions of use of this product, are not within the control of Designer Molecules Inc., it is the user's legal obligation to determine the conditions of safe use of this product.