

**SECTION 1: IDENTIFICATION****Product Identifier****Product Name:** EJ-290 Part C Catalyst**Product Form:** Substance**Other Means of Identification**

Lauroyl peroxide

**Intended Use of the Product**

Radiation detection applications. To be mixed with EJ-290 Part A and EJ-290 Part B.

**Name, Address, and Telephone of the Responsible Party**

**Company, Manufacturer:** Eljen Technology  
**Address:** 1300 W. Broadway  
SWEETWATER, TEXAS 79556  
USA  
**Phone:** (325) 235-4276  
**Fax:** (325) 235-0701  
**Website:** [www.eljentechnology.com](http://www.eljentechnology.com)

**Emergency Telephone Number**

**Emergency Number:** ChemTel (24 hours)  
United States, Canada, Puerto Rico, U.S. Virgin Islands: 1 (800) 255-3924  
International: 1 (813) 248-0585 (Collect calls are accepted)

**SECTION 2: HAZARDS IDENTIFICATION****Classification of the Substance or Mixture**

**Classification (GHS-US)**  
Organic Peroxides, Type D H242

**Label Elements****GHS-US Labeling****Hazard Pictograms (GHS-US) :****Signal Word (GHS-US) :** Danger**Hazard Statements (GHS-US):**

H242 Heating may cause a fire.

**Precautionary Statements (GHS-US):**

P210 Keep away from heat, sparks, open flames, and hot surfaces. - No smoking.  
P220 Keep/Store away from clothing/combustible materials.  
P234 Keep only in original container.  
P280 Wear protective gloves, protective clothing, and eye protection.  
P410 Protect from sunlight.

# EJ-290 Part C Catalyst

## Safety Data Sheet

According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations

P411+P235 Store at temperatures not exceeding 8°C (46°F). Keep cool.  
P420 Store away from other materials.  
P501 Dispose of contents/container in accordance with all local, regional, national, provincial, territorial, and international regulations.

### Hazards Not Otherwise Classified

None identified.

### Unknown Acute Toxicity (GHS-US)

Not applicable.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### Substances

**Chemical Name:** Lauroyl peroxide

**Synonyms:** Dilauroyl peroxide, Dodecanoyl peroxide, Laurox, Laurydol, Peroxide, bis(1-oxododecyl)-, Peroxide de lauroyle

**Formula:** C<sub>24</sub>H<sub>46</sub>O<sub>4</sub>

### **Hazardous Components:**

Any hazardous components not listed below are not present in quantities requiring disclosure.

Name	Product Identifier	Concentration (%)	Classification (GHS-US)
Lauroyl peroxide	CAS# 105-74-8	90-100	Org. Perox. D, H242

For full text of H-phrases, see section 16.

## SECTION 4: FIRST AID MEASURES

### Description of First Aid Measures

**General:** Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

**Inhalation:** When symptoms occur, go into open air and ventilate suspected area. Call a poison center or a doctor if you feel unwell.

**Skin Contact:** Remove contaminated clothing. Drench affected area with water for at least 15 minutes. Obtain medical attention if skin irritation develops or persists.

**Eye Contact:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if eye irritation develops or persists.

**Ingestion:** Rinse mouth. Do not induce vomiting. Call a poison center or a doctor if you feel unwell.

### Most Important Symptoms and Effects, Both Acute and Delayed

**General:** Cough, shortness of breath, headache, nausea, vomiting.

**Inhalation:** May cause irritation to upper respiratory tract and mucus membranes.

**Skin Contact:** Prolonged or repeated contact may cause moderate irritation, defatting, and dermatitis.

**Eye Contact:** May cause eye irritation.

**Ingestion:** May be harmful if swallowed.

**Chronic Symptoms:** None known.

# EJ-290 Part C Catalyst

Safety Data Sheet

According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations

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## **Indication of Any Immediate Medical Attention and Special Treatment Needed**

If any of the above symptoms are present and persist, seek immediate medical attention.

## **SECTION 5: FIRE-FIGHTING MEASURES**

### **Extinguishing Media**

**Suitable Extinguishing Agents:** Use water spray, alcohol-resistant foam, dry chemical powder or carbon dioxide.

### **Special Hazards Arising from the Substance or Mixture**

**Fire Hazard:** Emits toxic fumes under fire conditions. Contact with other material may cause fire. May accelerate combustion.

**Explosion Hazard:** Not explosive.

**Reactivity:** May react with strong reducing agents, powdered metals, and strong bases.

### **Advice for Firefighters**

**Precautionary Measures Fire:** Exercise caution when fighting any chemical fire.

**Firefighting Instructions:** Use water spray or fog to cool unopened containers. Do not allow run-off from firefighting to enter drains or water courses. Do not breathe fumes from fires or vapors from decomposition.

**Protection During Firefighting:** Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Wear rubber boots and heavy rubber gloves.

**Hazardous Combustion Products:** Toxic combustion products, Carbon oxides.

## **SECTION 6: ACCIDENTAL RELEASE MEASURES**

### **Personal Precautions, Protective Equipment and Emergency Procedures**

**General Measures:** Avoid dust formation. Handle in accordance with good industrial hygiene and safety practice.

**Protective Equipment:** Use appropriate personal protection equipment (PPE).

**Emergency Procedures:** Evacuate personnel to safe areas. Ensure adequate ventilation. Avoid breathing dust. Shut off all sources of ignition.

### **Environmental Precautions**

Prevent further leakage or spillage if safe to do so. Prevent entry to sewers and public waters.

### **Methods and Material for Containment and Cleaning Up**

**For Containment:** Contain and collect as any solid.

**Methods for Cleaning Up:** Sweep up and shovel. Collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations. Keep in suitable, closed, glass containers for disposal.

### **Reference to Other Sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protective equipment.

See Section 13 for disposal information.

# EJ-290 Part C Catalyst

## Safety Data Sheet

According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations

### SECTION 7: HANDLING AND STORAGE

#### Precautions for Safe Handling

**Additional Hazards When Processed:** Avoid formation of dust and aerosols. Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs. Provide appropriate exhaust ventilation at places where dust is formed. Keep away from heat and sources of ignition.

**Hygiene Measures:** Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking, and again when leaving work. Do not eat, drink, or smoke when using this product. Avoid contact with skin and eyes. Solvent base is readily absorbed through skin.

#### Conditions for Safe Storage, Including Any Incompatibilities

**Storage Conditions:** Store in a cool environment. Recommended storage temperature: 2-8°C (36-46°F). Avoid storage where the temperature can rise above 38°C (100°F) for extended periods of time. Store in original container. Keep container tightly closed in a dry and well-ventilated place. Keep away from heat, sparks, open flames, and incompatible materials.

**Incompatible Materials:** Strong reducing agents, powdered metals, strong bases.

### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control Parameters

For substances listed in section 3 that are not listed here, there are no established exposure limits from the manufacturer, supplier, importer, or appropriate advisory agency.

**Components with Workplace Control Parameters:** Contains no substances with occupational exposure limit values.

#### Exposure Controls

**Appropriate Engineering Controls:** Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday. Mechanical exhaust required. Fumes are heavier than air.

#### Personal Protective Equipment

**Eye/Face Protection:** Wear chemical resistant goggles or safety glasses with side-shields.

**Skin and Body Protection:** Wear chemical resistant gloves. Wear impervious, chemical resistant clothing.

**Respiratory Protection:** If irritation is experienced, approved respiratory protection should be worn.

### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

#### Information on Basic Physical and Chemical Properties

<b>Appearance</b>	: White solid powder
<b>Odor</b>	: No odor
<b>Odor Threshold</b>	: No data available
<b>pH-Value</b>	: No data available
<b>Melting Point</b>	: 53-57°C (127-135°F) - lit.
<b>Freezing Point</b>	: No data available
<b>Boiling Point/Boiling Range</b>	: No data available
<b>Flash Point</b>	: No data available
<b>Evaporation Rate</b>	: No data available
<b>Flammability (solid/gas)</b>	: No data available

# EJ-290 Part C Catalyst

## Safety Data Sheet

According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations

<b>Lower Flammability/Explosion Limit</b>	: No data available
<b>Upper Flammability/Explosion Limit</b>	: No data available
<b>Vapor Pressure</b>	: No data available
<b>Vapor Density</b>	: 4.1 (air=1)
<b>Relative Density</b>	: No data available
<b>Solubility</b>	: 0.0001 g/l at 20°C (68°F) – insoluble (water)
<b>Partition Coefficient (n-Octanal/Water)</b>	: log Pow: > 6.5
<b>Auto-Ignition Temperature</b>	: No data available
<b>Decomposition Temperature</b>	: No data available
<b>Viscosity</b>	: No data available

## SECTION 10: STABILITY AND REACTIVITY

**Reactivity:** May react with strong reducing agents, powdered metals, and strong bases.

**Chemical Stability:** Stable under recommended storage conditions.

**Possibility of Hazardous Reactions:** Hazardous polymerization will not occur.

**Conditions to Avoid:** Heat, flames and sparks. Storage where the temperature can rise above 38°C (100°F) for extended periods of time.

**Incompatible Materials:** Strong reducing agents, powdered metals, strong bases.

**Hazardous Decomposition Products:** Toxic combustion products, Carbon dioxide, Carbon monoxide.

## SECTION 11: TOXICOLOGICAL INFORMATION

### Information on Toxicological Effects

**Acute Toxicity:** Not classified.

### **LD50/LC50 Values That Are Relevant for Classification:**

<b>EJ-290 Part C</b>	LD50 (Oral – Rat – male and female)	2,000 mg/kg
	LD50 (Dermal – Rat – male and female)	2,000 mg/kg

**Skin Corrosion/Irritation:** Not classified.

**Serious Eye Damage/Irritation:** Not classified.

**Respiratory or Skin Sensitization:** Not classified.

**Germ Cell Mutagenicity:** Not classified.

**Carcinogenicity:** Not classified.

<b>NTP</b>	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by NTP.		
<b>IARC</b>	Lauroyl peroxide	CAS# 105-74-8	Group 3
<b>OSHA</b>	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by OSHA.		
<b>ACGIH</b>	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by ACGIH.		

# EJ-290 Part C Catalyst

## Safety Data Sheet

According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations

**Reproductive Toxicity:** Not classified.

**Specific Target Organ Toxicity (Single Exposure):** Not classified.

**Specific Target Organ Toxicity (Repeated Exposure):** Not classified.

**Aspiration Hazard:** Not classified.

### Symptoms Related to the Physical, Chemical and Toxicological Characteristics

**General:** Cough, shortness of breath, headache, nausea, vomiting.

**Symptoms/Injuries After Inhalation:** May cause irritation to upper respiratory tract and mucus membranes.

**Symptoms/Injuries After Skin Contact:** Prolonged or repeated contact may cause moderate irritation, defatting, and dermatitis.

**Symptoms/Injuries After Eye Contact:** May cause eye irritation.

**Symptoms/Injuries After Ingestion:** May be harmful if swallowed.

**Chronic Symptoms:** No data available.

### Additional Information

The information is presented here to the best of our knowledge. The chemical, physical, and toxicological properties have not been thoroughly investigated.

## SECTION 12: ECOLOGICAL INFORMATION

Avoid release to the environment. Do not allow product to reach ground water, water course or sewage system.

## SECTION 13: DISPOSAL CONSIDERATIONS

**Waste Disposal Recommendations:** Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Contact a licensed professional waste disposal service to dispose of this material, including surplus and non-recyclable solutions. Dispose of contaminated packaging in the same manner as unused product. Observe all federal, state and local environmental regulations.

## SECTION 14: TRANSPORT INFORMATION

### In Accordance with DOT

**UN Number** : 3106  
**UN Proper Shipping Name** : Organic peroxide type D, solid (Dilauroyl peroxide, ≤100%) (Dilauroyl peroxide)  
**Transport Hazard Class** : 5.2  
**Packing Group** : None  
**Marine Pollutant** : No

### In Accordance with IMDG

**UN Number** : 3106  
**UN Proper Shipping Name** : ORGANIC PEROXIDE TYPE D, SOLID (DILAUROYL PEROXIDE) (Dilauroyl peroxide)  
**Transport Hazard Class** : 5.2  
**Packing Group** : None  
**EmS-No. (Fire)** : F-J  
**EmS-No. (Spillage)** : S-R  
**Marine Pollutant** : No

# EJ-290 Part C Catalyst

## Safety Data Sheet

According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations

### In Accordance with IATA

**UN Number** : 3106  
**UN Proper Shipping Name** : Organic peroxide type D, solid (Dilauroyl peroxide) (Dilauroyl peroxide)  
**Transport Hazard Class** : 5.2  
**Packing Group** : None

## SECTION 15: REGULATORY INFORMATION

### Safety, Health, and Environmental Regulations Specific for the Substance or Mixture

#### US Federal Regulations

<b>TSCA Inventory</b>	No components are listed.
<b>SARA 302 Components</b>	No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
<b>SARA 313 Components</b>	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.
<b>SARA 311/312 Hazards</b>	Reactivity Hazard

#### US State Regulations

<b>Lauroyl peroxide (CAS# 105-74-8)</b>
U.S. – Massachusetts – Right to Know List
U.S. – Pennsylvania – Right to Know List
U.S. – New Jersey – Right to Know List

#### NFPA Rating

**Health** : 0  
**Fire** : 0  
**Reactivity** : 1  
**Special** : OX

#### HMIS Rating

**Health** : 0  
**Flammability** : 0  
**Physical** : 1

## SECTION 16: OTHER INFORMATION

**Date of Issue:** 11/30/2015

**Revision Date:** 2/17/2022

**Other Information:** This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

#### Abbreviations Used In Sections 3:

Org. Perox. D	Organic Peroxides, Type D
H242	Heating may cause a fire.

#### **Party Responsible for the Preparation of This Document:**

Eljen Technology  
(325) 235-4276

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.*