

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

Emergency Telephone Number

Emergency Number: CHEMTREC (24 hours)
(800) 424-9300

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.
P411+P235 Store at temperatures not exceeding 8°C (46°F). Keep cool.
P420 Store away from other materials.

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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: C₂₄H₄₆O₄

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.

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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.

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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

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

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

EJ-290 Part C	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.

NTP	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.		
IARC	Lauroyl peroxide	CAS# 105-74-8	Group 3
OSHA	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.		
ACGIH	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.		

Reproductive Toxicity: Not classified.

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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

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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

TSCA Inventory	No components are listed.
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	Reactivity Hazard

US State Regulations

Lauroyl peroxide (CAS# 105-74-8)
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: 7/8/2016

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:

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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.