

**SECTION 1: IDENTIFICATION****Product Identifier****Product Name:** EJ-444 Dual Phosphor Scintillator**Product Form:** Article**Intended Use of the Product**

Radiation detection applications.

**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:** CHEMTREC (24 hours)  
(800) 424-9300

**SECTION 2: HAZARDS IDENTIFICATION****Classification of the Substance or Mixture****Classification (GHS-US):** Not classified.**Label Elements****GHS-US Labeling:** No labeling applicable.**Hazards Not Otherwise Classified**

Within the meaning of the OSHA Hazard Communication Standard [29 CFR 1910.1200] and the Canadian Hazardous Products Act (HPA), this mixture is not considered a hazard when used in a manner which is consistent with the labeled directions. This mixture is considered an article in its final form. This SDS covers the hazards and information of the materials contained within the article, in the event the product is damaged or mishandled. Under normal conditions of use these chemicals are not anticipated to be available for exposure.

**Components With Unknown Acute Toxicity (GHS-US)**

Not applicable.

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS****Mixture**

Name	Product Identifier	Concentration (%)	Classification (GHS-US)
EJ-444	Not applicable (Article)	100	Not classified

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## 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.

**Skin Contact:** Gently wash with plenty of soap and water.

**Eye Contact:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**Ingestion:** Rinse mouth thoroughly with water. Do not induce vomiting.

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

**General:** None expected under normal conditions of use.

**Inhalation:** Not expected to present a significant inhalation hazard under anticipated conditions of normal use.

**Skin Contact:** Not irritating to skin.

**Eye Contact:** Eye contact is not considered a potential route of exposure.

**Ingestion:** Ingestion is likely to have adverse effects.

**Chronic Symptoms:** None expected under normal conditions of use.

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

If you feel unwell, seek medical advice (show the label where possible).

## SECTION 5: FIRE-FIGHTING MEASURES

### Extinguishing Media

**Suitable Extinguishing Agents:** Dry powder, alcohol-resistant foam, water in large amounts, carbon dioxide (CO<sub>2</sub>). Do not use a heavy water stream. Use of heavy stream of water may spread fire.

### Special Hazards Arising from the Substance or Mixture

**Fire Hazard:** Not considered flammable but will burn at high temperatures.

**Explosion Hazard:** Not explosive.

**Reactivity:** Hazardous reactions will not occur under normal conditions.

### Advice for Firefighters

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

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

**Protection During Firefighting:** Do not enter fire area without proper protective equipment, including respiratory protection.

**Hazardous Combustion Products:** Carbon oxides (CO, CO<sub>2</sub>). Black smoke.

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**Other Information:** Temperatures over 300°C will release combustible gases.

### Reference to Other Sections

Refer to section 9 for flammability properties.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### Personal Precautions, Protective Equipment and Emergency Procedures

**General Measures:** No special measures required.

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

**Emergency Procedures:** Evacuate unnecessary personnel. Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit.

### Environmental Precautions

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:** Clear up spills immediately and dispose of waste safely. Carefully shovel or sweep up spilled material and place in suitable container for disposal.

### Reference to Other Sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

## SECTION 7: HANDLING AND STORAGE

### Precautions for Safe Handling

**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. Wash hands and forearms thoroughly after handling.

### Conditions for Safe Storage, Including Any Incompatibilities

**Storage Conditions:** Store in a dry, cool and well-ventilated place.

**Incompatible Materials:** Strong acids. Strong bases. Oxidizing acids. General laboratory solvents such as acetone, xylene, and alcohol.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control Parameters

Not applicable.

### Exposure Controls

**Appropriate Engineering Controls:** Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed.

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### Personal Protective Equipment

**Eye/Face Protection:** Wear chemical goggles or safety glasses when machining or cutting.

**Skin and Body Protection:** Wear chemically resistant protective gloves. Wear suitable protective clothing.

**Respiratory Protection:** When machining or cutting, wear an approved dust mask or respirator.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### Information on Basic Physical and Chemical Properties

Physical State	: Solid
Appearance	: Clear, blue fluorescent plastic with a white coating on one side.
Odor	: No odor.
Odor Threshold	: No data available
pH	: No data available
Melting Point	: 75 °C (167 °F)
Boiling Point/Boiling Range	: Not applicable
Flash Point	: None
Evaporation Rate	: Not applicable
Flammability (solid, gas)	: No data available
Lower Flammability/Explosion Limit	: Not applicable
Upper Flammability/Explosion Limit	: Not applicable
Vapor Pressure	: Not applicable
Vapor Density	: Not applicable
Relative Density	: No data available
Solubility	: No data available
Partition Coefficient (n-octanal/water)	: No data available
Auto-Ignition Temperature	: Not applicable
Decomposition Temperature	: No data available
Viscosity	: Not applicable
Percent Volatile by Volume	: < 0.2%

## SECTION 10: STABILITY AND REACTIVITY

**Reactivity:** Hazardous reactions will not occur under normal conditions.

**Chemical Stability:** Product is stable.

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

**Conditions to Avoid:** Incompatible materials.

**Incompatible Materials:** Strong acids. Strong bases. Oxidizing acids may cause the release of hydrogen sulfide gas. General laboratory solvents such as acetone, xylene, and alcohol may attack the adhesive and ruin the product, but will not cause the product to become hazardous.

**Hazardous Decomposition Products:** Carbon oxides (CO, CO<sub>2</sub>). Hydrocarbons.

## SECTION 11: TOXICOLOGICAL INFORMATION

### Information on Toxicological Effects

**Acute Toxicity:** Not classified.

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**LD50/LC50 Values That Are Relevant for Classification:** No data available.

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

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

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

**Germ Cell Mutagenicity:** Not classified.

**Teratogenicity:** 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>	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 IARC.
<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.

**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

**Symptoms/Injuries After Inhalation:** Not expected to present a significant inhalation hazard under anticipated conditions of normal use.

**Symptoms/Injuries After Skin Contact:** Not irritating to skin.

**Symptoms/Injuries After Eye Contact:** Eye contact is not considered a potential route of exposure.

**Symptoms/Injuries After Ingestion:** Ingestion is likely to have adverse effects.

**Chronic Symptoms:** None expected under normal conditions of use.

### Additional Information

The information presented here is 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.

## SECTION 13: DISPOSAL CONSIDERATIONS

**Waste Disposal Recommendations:** Dispose of waste material in accordance with all local, regional, national, provincial, territorial and international regulations.

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## SECTION 14: TRANSPORT INFORMATION

### In Accordance with DOT

Not regulated for transport.

### In Accordance with IMDG

Not regulated for transport.

### In Accordance with IATA

Not regulated for transport.

## SECTION 15: REGULATORY INFORMATION

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

#### **US Federal Regulations**

This product does not appear on any US Federal list.

#### **US State Regulations**

This product does not appear on any US State lists.

## SECTION 16: OTHER INFORMATION

**Date of Issue:** 8/24/2016

**Revision Date:** 8/24/2016

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

#### **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.*