

SECTION 1: IDENTIFICATION**Product Identifier****Product Name:** EJ-228 Plastic 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

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. Product has undergone polymerization and contains no unreacted monomers in the final product. Fine shavings from machining or sawing can cause mechanical irritation. Avoid accumulation of shavings.

Components With Unknown Acute Toxicity (GHS-US)

Not applicable.

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

Name	Product Identifier	Concentration (%)	Classification (GHS-US)
EJ-228	Not applicable (Article)	100	Not classified

EJ-228 Plastic Scintillator

Safety Data Sheet

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

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. Fine shavings and dust from machining may cause mechanical irritation to eyes, nose, throat, and lungs.

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 (CO₂). 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.

EJ-228 Plastic Scintillator

Safety Data Sheet

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

Hazardous Combustion Products: Carbon oxides (CO, CO₂). Black smoke.

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

Technical Measures: Avoid accumulation of shavings or dust.

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

Incompatible Materials: Strong acids. Strong bases.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

Not applicable.

EJ-228 Plastic Scintillator

Safety Data Sheet

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

Exposure Controls

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

Personal Protective Equipment

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

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

Respiratory Protection: When machining or polishing, 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, solid plastic.
Odor	: No odor.
Odor Threshold	: No data available
pH	: No data available
Melting Point	: 75°C (167°F)
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
Upper Flammability/Explosion Limit	: No data available
Vapor Pressure	: No data available
Vapor Density	: No data available
Relative Density	: 1.023 (water = 1)
Solubility	: No data available
Partition Coefficient (n-octanal/water)	: No data available
Auto-Ignition Temperature	: No data available
Decomposition Temperature	: No data available
Viscosity	: No data available
Percent Volatile by Volume	: < 0.2
Explosion Data – Sensitivity to Mechanical Impact	: Not expected to present an explosion hazard due to mechanical impact.
Explosion Data – Sensitivity to Static Discharge	: Not expected to present an explosion hazard due to static discharge.

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.

Hazardous Decomposition Products: May release flammable gases above 300°C. Carbon oxides (CO, CO₂). Hydrocarbons.

EJ-228 Plastic Scintillator

Safety Data Sheet

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

SECTION 11: TOXICOLOGICAL INFORMATION

Information on Toxicological Effects

Acute Toxicity: Not classified.

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.

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	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.
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.

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.

EJ-228 Plastic Scintillator

Safety Data Sheet

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

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal Recommendations: Material does not leech. Dispose of waste material in accordance with all local, regional, national, provincial, territorial and international regulations.

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.