

SECTION 1: IDENTIFICATION**Product Identifier****Product Name:** EJ-520 Reflective Paint – Part B**Product Form:** Mixtures**Intended Use of the Product**

Reflective coating.

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):**

Flammable liquid, Category 3	H226
Acute toxicity, Inhalation, Category 4	H332
Skin Irritation, Category 2	H315
STOT-SE, Category 3	H335

Label Elements**GHS-US Labeling:****Hazard Pictograms (GHS-US):**

Signal Word (GHS-US): Warning

Hazard Statements (GHS-US):

H226	Flammable liquid and vapor.
H315	Causes skin irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.

Precautionary Statements (GHS-US):

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

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P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P261	Avoid breathing vapors, mist or spray.
P264	Wash hands, forearms, and other exposed areas thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves, eye protection, and face protection.
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312	Call a poison center or doctor if you feel unwell.
P321	Specific treatment (see section 4 on SDS).
P332 + P313	If skin irritation occurs: Get medical advice/attention.
P362 + P364	Take off contaminated clothing and wash it before reuse.
P370 + P378	In case of fire: Use appropriate media (see section 5 on SDS) to extinguish.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P403 + P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/container in accordance with all local, regional, national, provincial, territorial, and international regulations.

Hazards Not Otherwise Classified

Not applicable.

Components With Unknown Acute Toxicity (GHS-US)

Not applicable.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Mixture

Hazardous Components:

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

Name	Product Identifier	Concentration (%)
Hexamethylene diisocyanate homopolymer	CAS# 28182-81-2	75.71
n-Butyl acetate	CAS# 123-86-4	12.03
Methyl n-amyl ketone	CAS# 110-43-0	12.03
Hexamethylene-di-isocyanate	CAS# 822-06-0	0.23

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: Remove to fresh air and keep at rest in a position comfortable for breathing. 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. Wash contaminated clothing before reuse. Seek medical attention immediately 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.

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Most Important Symptoms and Effects, Both Acute and Delayed

Inhalation: Harmful if inhaled. May cause irritation to upper respiratory tract. Symptoms may include dizziness, narcosis, nausea, dryness of throat. Excessive exposure may cause loss of memory, unconsciousness, coma, and death.

Skin Contact: Causes skin irritation. Symptoms may include drying, cracking or flaking of skin. Prolonged exposure may cause redness and swelling which may lead to dermatitis.

Eye Contact: May cause eye irritation. Symptoms may include pain, tearing and swelling of the eyes. Prolonged exposure may cause conjunctivitis.

Ingestion: May cause irritation of the digestive tract. Symptoms may include diarrhea, vomiting, sore throat, and nausea.

Chronic Symptoms: None known.

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: Carbon dioxide, sand, extinguishing powder. Do not use water, especially water with full jet since it may spread fire.

Special Hazards Arising from the Substance or Mixture

Fire Hazard: Flammable liquid and vapor.

Explosion Hazard: Product is not explosive, but formation of explosive air/vapor mixtures is possible.

Reactivity: Hazardous reactions will not occur under recommended storage and handling conditions.

Advice for Firefighters

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

Firefighting instructions: In case of major fire and large quantities, evacuate area. Fight fire remotely due to the risk of explosion. 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. Wear protective clothing to prevent contact with skin and eyes.

Hazardous Combustion Products: None known.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Use special care to avoid static charges. Keep away from heat, sparks, open flames, hot surfaces. No smoking. Do NOT breathe vapor, mist, or spray.

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

Emergency Procedures: Evacuate unnecessary personnel. Ventilate area. Eliminate ignition sources. Stop leak if safe to do so.

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Environmental Precautions

Prevent entry to sewers and public waters.

Methods and Material for Containment and Cleaning Up

For Containment: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

Methods for Cleaning Up: Absorb with liquid-binding material such as sand, diatomite, acid binders, or universal binders. Dispose contaminated material in the same manner as waste product. Ensure adequate ventilation. Do not flush with water or aqueous cleansing agents.

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

Additional Hazards When Processed: Handle empty containers with care because residual vapors are flammable.

Hygiene Measures: Do not breathe vapors, mist or spray. Wash hands and other exposed areas thoroughly with soap and water after handling. Do not eat, drink or smoke when using this product. Wear personal protective equipment as recommended in section 8.

Technical Measures: Keep product away from heat, sparks, open flames, and hot surfaces. Use only non-sparking tools. Take precautionary measures against static discharge. Use explosion-proof electrical, ventilating, and/or lighting equipment. Use only with mechanical exhaust ventilation.

Conditions for Safe Storage, Including Any Incompatibilities

Technical Measures: Follow proper grounding procedures to avoid static discharge. Ground or bond container and receiving equipment.

Storage Conditions: Store in a cool, dry, well-ventilated place. Keep container tightly closed when not in use. Store locked up. Keep in a fireproof place. Keep away from direct sunlight, extremely high or low temperatures and incompatible materials.

Incompatible Materials: Water, Alcohols, Amines, Strong bases, Metal compounds, and Surface active materials.

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:

n-Butyl acetate (CAS# 123-86-4)	OSHA (PEL)	710 mg/m ³ (150 ppm) TWA
	ACGIH (TLV)	713 mg/m ³ (150 ppm) TWA 950 mg/m ³ (200 ppm) STEL
	NIOSH (REL)	710 mg/m ³ (150 ppm) TWA 950 mg/m ³ (200 ppm) STEL
Methyl n-amyl ketone (CAS# 110-43-0)	OSHA (PEL)	465 mg/m ³ (100 ppm) TWA
	ACGIH (TLV)	233 mg/m ³ (50 ppm) TWA
	NIOSH (REL)	465 mg/m ³ (100 ppm) TWA
Hexamethylene-di-isocyanate (CAS# 822-06-0)	ACGIH (TLV)	0.034 mg/m ³ (0.005 ppm) TWA
	NIOSH (REL)	0.035 mg/m ³ (0.005 ppm) TWA

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0.14 mg/m ³ (0.02 ppm) 10-min CEILING
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Exposure Controls

Appropriate Engineering Controls: Where eye contact can occur, have eye washing facilities readily available. Use only with mechanical exhaust ventilation. Ensure adequate ventilation, especially in confined areas. Follow proper grounding procedures to avoid static discharge. Use explosion-proof equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Gas detectors should be used when flammable vapors may be released.

Personal Protective Equipment

Eye/Face Protection: Wear chemically resistant safety goggles.

Skin and Body Protection: Wear chemically resistant protective gloves. Wear suitable protective clothing made from chemically and fire resistant/ flame retardant materials and fabrics.

Respiratory Protection: If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on Basic Physical and Chemical Properties

Appearance	: Transparent yellow liquid
Odor	: Solvent-like
Odor Threshold	: No data available
pH	: No data available
Melting Point/Freezing Point	: No data available
Boiling Point/Boiling Range	: 124°C (255°F)
Flash Point	: 27°C (81°F)
Evaporation Rate	: No data available
Flammability (solid, gas)	: Not applicable
Lower Flammability/Explosion Limit	: 1.0%
Upper Flammability/Explosion Limit	: 7.5%
Vapor Pressure	: 10.7 hPa (8 mm Hg) at 20°C (68°F)
Vapor Density	: No data available
Relative Density	: No data available
Density	: 1.039 g/cm ³ at 20°C (68°F)
Solubility	: Miscible in water
Partition Coefficient (n-octanal/water)	: No data available
Ignition Temperature	: 370°C (698°F)
Auto Igniting	: Product is not self-igniting
Decomposition Temperature	: No data available
Viscosity	: No data available
Percent Volatile by Volume	: 24.1%

SECTION 10: STABILITY AND REACTIVITY

Reactivity: Hazardous reactions will not occur under recommended storage and handling conditions.

Chemical Stability: Flammable liquid and vapor. Product is not explosive, but formation of explosive air/vapor mixtures is possible. Product is stable under recommended storage and handling conditions.

Possibility of Hazardous Reactions: Hazardous polymerization will not occur.

Conditions to Avoid: High temperatures, heat, hot surfaces, sparks, open flames, and other ignition sources. Keep away from contact with moisture and incompatible materials.

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Incompatible Materials: Water. Alcohols. Amines. Strong bases. Metal compounds. Surface active materials.

Hazardous Decomposition Products: Carbon dioxide. Carbon monoxide. Oxides of nitrogen. Hydrogen cyanide (HCN). Hexamethylene diisocyanate (HDI).

SECTION 11: TOXICOLOGICAL INFORMATION

Information on Toxicological Effects

Acute Toxicity: Harmful if inhaled.

LD50/LC50 Values That Are Relevant for Classification:

Hexamethylene Diisocyanate Homopolymer (CAS# 28182-81-2)	LD50 (Oral – Rat)	> 5000 mg/kg
	LC50 (Inhalation – Rat)	0.554 mg/l/4h

Skin Corrosion/Irritation: Causes skin irritation.

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 a 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 a 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 a probable, possible or confirmed human carcinogen by OSHA.

Reproductive Toxicity: Not classified.

Specific Target Organ Toxicity (Single Exposure): May cause respiratory irritation.

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: Harmful if inhaled. May cause irritation to upper respiratory tract. Symptoms may include dizziness, narcosis, nausea, dryness of throat. Excessive exposure may cause loss of memory, unconsciousness, coma, and death.

Symptoms/Injuries After Skin Contact: Causes skin irritation. Symptoms may include drying, cracking or flaking of skin. Prolonged exposure may cause redness and swelling which may lead to dermatitis.

Symptoms/Injuries After Eye Contact: May cause eye irritation. Symptoms may include pain, tearing and swelling of the eyes. Prolonged exposure may cause conjunctivitis.

Symptoms/Injuries After Ingestion: May cause irritation of the digestive tract. Symptoms may include diarrhea, vomiting, sore throat, and nausea.

Chronic Symptoms: None known.

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Additional Information

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 undiluted product or large quantities to reach ground water, water course or sewage system.

SECTION 13: DISPOSAL CONSIDERATIONS

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

SECTION 14: TRANSPORT INFORMATION

In Accordance with DOT

UN Number : 2929
UN Proper Shipping Name : Toxic liquids, flammable, organic, n.o.s. (hexamethylene-di-isocyanate, Butyl acetates)
Transport Hazard Class : 6.1
Packing Group : II
Label Codes : 6.1, 3
Marine Pollutant : No

In Accordance with IMDG

UN Number : 2929
UN Proper Shipping Name : TOXIC LIQUIDS, FLAMMABLE, ORGANIC, N.O.S. (hexamethylene-di-isocyanate, BUTYL ACETATES)
Transport Hazard Class : 6.1
Packing Group : II
Label Codes : 6.1, 3
EmS-No. (Fire) : F-E
EmS-No. (Spillage) : S-D
Marine Pollutant : No

In Accordance with IATA

UN Number : 2929
UN Proper Shipping Name : TOXIC LIQUIDS, FLAMMABLE, ORGANIC, N.O.S. (hexamethylene-di-isocyanate, BUTYL ACETATES)
Transport Hazard Class : 6.1
Packing Group : II
Label Codes : 6.1, 3

SECTION 15: REGULATORY INFORMATION

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

US Federal Regulations

TSCA Inventory	All components are listed.
SARA 313 Components	The following components are subject to reporting levels established by SARA Title III, Section 313: Hexamethylene-di-isocyanate (CAS# 822-06-0)

US State Regulations

This product and its components do not appear on any US State Lists.

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NFPA Rating

Health : 1

Fire : 3

Reactivity : 0

HMIS Rating

Health : 2

Flammability : 3

Reactivity : 0

SECTION 16: OTHER INFORMATION

Date of Issue: 6/16/2015

Revision Date: 7/13/2016

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.