



11555 Medlock Bridge Road, Suite 100, Johns Creek, GA 30097, USA

T: +1.888.658.1221 F: 1.678.619.2020

E: info@ereztech.com W: https://ereztech.com

SAFETY DATA SHEET

Section 1. Identification

Product Name: <u>Diethyldicyclopentadiene, mixture of isomers</u>

Product Type: Liquid

CAS Number: 307496-25-9

Product Number: C6259

Recommended Use: Laboratory chemicals, synthesis of substances.

Product Manufacturer: Ereztech LLC

11555 Medlock Bridge Road, Suite 100

Johns Creek, GA 30097

Product Information: (888) 658-1221

In Case of an Emergency: CHEMTREC: 1-800-424-9300 (USA);

+1 703-527-3887 (International); CCN836180
*** Contact manufacturer for all non-emergency calls.

Section 2. Hazards Identification

Appearance/Odor: Colorless to slightly yellow liquid, odor not determined.

Classification: FLAMMABLE LIQUIDS - Category 4, H227

SKIN CORROSION/IRRITATION - Category 2, H315

SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2B, H320 SPECIFIC ORGAN TOXICITY, SINGLE EXPOSURE; RESPIRATORY

TRACT IRRITATION - Category 3, H335

GHS Label Elements

Hazard Pictograms:



Signal Word: WARNING

Hazard Statements: H227: Combustible liquid.

H315: Causes skin irritation. H319: Causes eye irritation.

H335: May cause respiratory irritation.

Section 2. Hazards Identification

Precautionary Statements

Read label before use. Keep out of reach of children. If medical General:

advice is needed, have product container or label at hand.

P210: Keep away from heat, hot surfaces, sparks, open flames and **Prevention:**

other ignition sources. No smoking.

P261: Avoid breathing sprays/mists/vapors/gases.

P264 + P265: Wash hands and exposed skin thoroughly after

handling. Do not touch eyes.

P271: Use only outdoors or in a well-ventilated area.

P280: Wear protective gloves/ protective clothing/ eye protection/

face protection.

P302 + P352: IF ON SKIN: Wash with plenty of water. Response:

P304 + P340: IF INHALED: Remove person to fresh air and keep

comfortable for breathing.

P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for

several minutes. Remove contact lenses, if present and

easy to do. Continue rinsing.

P319: Get medical help if you feel unwell.

P332 + P317: If skin irritation occurs: Get medical help.

P337 + P317: If eye irritation persists: Get medical help.

P362 + P364: Take off contaminated clothing and wash it before

reuse.

P370 + P378: In case of fire: Use water spray, alcohol-resistant

foam, dry chemical or carbon dioxide for extinction.

P403 + P233: Store in a well ventilated place. Keep container Storage:

tightly closed.

P405: Store locked up.

P501: Dispose of contents/ container in accordance with local, **Disposal:**

state and federal regulations.

OSHA/HCS Status: This material is considered hazardous by the OSHA Hazard

Communication Standard (29 CFR 1910.1200).

Hazards Not Otherwise

Classified [HNOC]:

None identified.

Section 3. Composition/Information on Ingredients

Substances

: Ethylcyclopentadiene dimer; Diethyl-3a,4,7,7a-tetrahydro-**Synonyms**

4,7-methano-1H-indene.

Formula $: C_{14}H_{20}$

: 188.31 g/mol **Molecular Weight** : 307496-25-9 CAS-No.

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Section 3. Composition/Information on Ingredients

Ingredient Name	%	CAS Number
Diethyldicyclopentadiene, mixture of isomers	≥ 97	307496-25-9

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First Aid Measures

Description of Necessary First Aid Measures

General Advice: Move out of dangerous area. Get medical help immediately if symptoms develop

or if you feel unwell. Show this safety data sheet to the doctor in attendance.

Eye Contact: Immediately flush eyes with plenty of water, occasionally lifting the upper and

lower eyelids. Check for and remove any contact lenses. Continue rinsing. Get

medical help if eye irritation develops and persists.

Skin Contact: Take off contaminated clothing and shoes immediately. Wash off contaminated

skin with plenty of water. Get medical help if irritation develops and persists or if

burns occur.

Inhalation: Remove victim to fresh air and keep in a position comfortable for breathing. If

not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical help immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical help if

symptoms develop or if you feel unwell.

Ingestion: Rinse mouth. Do NOT induce vomiting. Remove dentures if any. If vomiting

occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical help immediately. Maintain an open airway.

Loosen tight clothing such as a collar, tie, belt or waistband. Get medical help if

symptoms develop or if you feel unwell.

Most Important Symptoms/Effects, Acute and Delayed Potential Acute Health Effects

Eye Contact: Symptoms may include stinging, tearing, redness, swelling and blurred vision.

Inhalation: Product may be irritating to respiratory system. Symptoms may include

coughing, sneezing with phlegm production and a sore throat.

Skin Contact: Symptoms may include an itching or burning sensation, dryness, scaling,

reddening and swelling of exposed skin, blistering and pain.

Ingestion: Product may be irritating to exposed mucous membrane tissues. Symptoms may

include a sore throat, cramping, localized pain, headache, nausea and vomiting.

Indication of Immediate Medical Attention and Special Treatment Needed, If Necessary

Notes to Physician: Treat symptomatically.

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Section 4. First Aid Measures

Specific Treatments: No specific treatment.

Protection of First Responders: No action taken shall be taken involving any personal risk

without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

See Toxicological Information (Section 11)

Section 5. Fire Fighting Measures

General Hazards: Combustible liquid. If product is heated or involved in a fire,

a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Fire may produce

irritating and/or potentially toxic gases.

Suitable Extinguishing Media: THE MOST EFFECTIVE FIRE EXTINGUISHING AGENT IS DRY

CHEMICAL POWDER PRESSURIZED WITH NITROGEN. For small fires a water spray (fog), vermiculite, sand, dry chemical or carbon dioxide (CO2) may also be used. For large fires, large quantities of water (flooding) may be applied as a spray

or a mist to control the fire and cool affected containers.

Unsuitable Extinguishing Media: Do not use water jet as an extinguisher as it may scatter and

spread the fire.

Unusual Fire and None identified. Explosion Hazards:

Product of Combustion: Decomposition products include carbon oxides (CO_x) .

Irritating and potentially toxic fumes and organic acid vapors may be generated during exposure to elevated temperatures

or open flame.

Protection of Firefighters: Promptly isolate the scene by removing all persons from the

vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Avoid contact with skin or eyes. Avoid the formation and

inhalation of sprays, mists, vapors and gases.

Eliminate all local and distant ignition sources. Move containers from fire area if process can be accomplished without risk to firefighters. To reduce the possibility of explosion, use a water spray or fog to reduce direct vapors

and to cool unopened containers.

Fire-fighters should wear appropriate protection equipment and self-contained breathing apparatus (SCBA) with a full

face-piece operated in a positive pressure mode.

Section 6. Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures

For Non-Emergency Personnel:

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid the formation and inhalation of sprays, mists, vapors and gases. Provide adequate ventilation. Wear respiratory protection. Put on appropriate personal protective equipment.

For Emergency Responders:

If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For Non-Emergency Personnel".

Environmental Precautions:

Do not allow dispersal of spilled material and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods for Containment

General:

Eliminate all local and distant ignition sources. Move containers from spill area if safe to do so. Contaminated absorbent material may pose the same hazard as the spilled product. Dispose of collected spillage in accordance with federal, state and local regulations (see Section 13).

Small Spill:

Collect spillage with a dry, non-combustible absorbent material (e.g. sand, earth, vermiculite or diatomaceous earth) and place in dry, sealed container for disposal.

Large Spill:

Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Contain and collect spillage with a dry, non-combustible absorbent material (e.g. sand, earth, vermiculite or diatomaceous earth) and place in dry, sealed container for disposal.

Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and Storage

Precautions:

Product is moisture sensitive; handle under a dry, inert gas. Nitrogen with less than 5 ppm each of moisture and oxygen is recommended.

Section 7. Handling and Storage

Precautions (cont.): Keep away from all sources of ignition – NO SMOKING. Keep

container tightly sealed. Avoid contact with skin, eyes and clothing. Avoid the formation and inhalation of sprays, mists, vapors and gases. Do not ingest. Ensure adequate ventilation.

Protective Measures: Put on appropriate personal protective equipment (see Section

8). Keep in the original container kept tightly closed when not in use. Empty containers retain product residue and can be

hazardous. Do not reuse container.

General Occupational Hygiene: Eating, drinking and smoking should be prohibited in areas

where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for

additional information on hygiene measures.

Safe Storage Conditions: Product is moisture sensitive; store under an inert gas.

Nitrogen with less than 5 ppm each of moisture and oxygen is recommended. Keep away from all sources of ignition – NO SMOKING. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials and food and drink. Keep container tightly closed and sealed until ready for use. Store locked up.

Section 8. Exposure Controls/Personal Protection

Introductory Remarks: These recommendations provide general guidance for handling

this product. Because work environments and material handling practices vary, safety procedures should be developed for each

intended application. While developing safe handling

procedures, do not overlook the need to clean equipment and conduct regular repairs. Waste from these procedures should

be handled in accordance with Section 13.

Occupational Exposure Limits: Product contains no substances with occupational exposure

limit values.

Engineering Controls: Properly operating chemical fume hood designed for hazardous

chemicals and having an average face velocity of at least 100

feet per minute. Provide an eyewash/shower station.

Section 8. Exposure Controls/Personal Protection

Environmental Exposure Controls:

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual Protection Measures

Hygiene Measures:

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Remove all soiled and contaminated clothing immediately. Avoid the formation and inhalation of sprays, mist, vapors and gases. Avoid contact with eyes and skin. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/Face Protection:

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, vapors or gases. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles, faceshield (8-inch minimum). Refer to 29 CFR 1910.133, ANSI Z87.1, or European Standard EN166.

Skin Protection

Hand Protection:

Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: Chemical-resistant gloves.

Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product.

Exposure Controls/Personal Protection Section 8.

Hand Protection (cont.): Dispose of contaminated gloves after use in accordance with

> applicable laws and good laboratory practices. Wash and dry hands. For full contact, wear Neoprene or nitrile rubber gloves.

Other Skin Protection: Appropriate footwear and any additional skin protection

measures should be selected based on the task being

performed and the risks involved and should be approved by a

specialist before handling this product.

Where risk assessment shows air-purifying respirators are **Respiratory Protection:**

> appropriate use a full-face respirator with multipurpose combination (US) or type ABEK (EN 14387) respirator

cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as

NIOSH (US) or CEN (EU).

Section 9. Physical and Chemical Properties

Liquid. **Physical State:**

Colorless to slightly yellow. Color:

No data available. Odor: No data available. pH: No data available.

Freezing Point: Boiling Point: 191 °C (375.8 °F).

85 °C (185 °F) - closed cup. Flash Point:

Auto-ignition temperature: No data available.

0.924**Relative Density:**

No data available. **Vapor Pressure:** Vapor Density: No data available. Water Solubility: No data available.

Section 10. Stability and Reactivity

Reactivity: No specific test data available.

This product is stable when stored under a dry, inert **Chemical Stability:**

atmosphere and away from heat. Nitrogen containing less

than 5 ppm each moisture and air is recommended.

Section 10. Stability and Reactivity

Conditions to Avoid: Exposure to water/moisture, sources of ignition (heat,

flames, sparks, electrostatic discharge), extremes of

temperature and direct sunlight.

Incompatible Materials: Strong acids and strong oxidizing agents.

Hazardous Decomposition Products: Under normal conditions of storage and use, hazardous

decomposition products should not be produced. Hazardous decomposition products formed under fire conditions: irritating and potentially toxic fumes, organic acid vapors and carbon oxides (CO_X) . In the event of a

fire: see section 5.

Possibility of Hazardous Reactions: Under normal conditions of storage and use, hazardous

reactions will not occur. Hazardous reactions or instability may occur under certain conditions of storage or use.

Section 11. Toxicological Information

Information on Toxicological Effects

Acute Toxicity : No specific data available.

Irritation/Corrosion : No specific data available. Product causes skin and eye

irritation.

Sensitization : No specific data available.

Germ Cell Mutagenicity : No effects known.

Carcinogenity

ACGIH : No component of this product present at levels greater

than 0.1% is identified as probable, possible or confirmed human carcinogen by ACGIH.

: No component of this product present at levels greater

than 0.1% is identified as probable, possible or

confirmed human carcinogen by IARC.

NTP : No component of this product present at levels greater

than 0.1% is identified as probable, possible or

confirmed human carcinogen by NTP.

OSHA : No component of this product present at levels greater

than 0.1% is identified as probable, possible or

confirmed human carcinogen by OSHA.

Reproductive Toxicity : No specific data available.

Teratogenicity : No specific data available.

Specific Target Organ Toxicity: Respiratory tract irritation.

(Single Exposure)

Section 11. Toxicological Information

Specific Target Organ Toxicity

(Repeated Exposure)

Aspiration Hazard

Information on the Likely

Routes of Exposure

: No specific data available.

: No specific data available.

: Common routes of exposure: inhalation, dermal (failure to use skin protection), eye (failure to use safety eyewear). Less common: ingestion (failure to employ recommended hygiene measures (e.g. smoking or eating after handling product without washing hands or using

hand protection).

: To the best of our knowledge, the chemical, physical and toxicological properties of this product have not

been thoroughly investigated.

Additional Information

Section 12. Ecological Information

Numerical Measures of Toxicity

Toxicity to Fish

Toxicity to Daphnia and Other

Aquatic Invertebrates

Toxicity to Algae

Persistence and Degradability

Biodegradability

Bioaccumulative Potential

Mobility in Soil

Other Adverse Effects

: No specific data available.

: An environmental hazard cannot be excluded in the

event of unprofessional handling or disposal.

Section 13. Disposal Considerations

Waste Treatment Methods

Dispose of in accordance with local, state, and federal **Product**

regulations. Refer to 40 CFR 260-299 for complete waste

disposal regulations. Consult your local, state, or federal agency

before disposing of any chemicals.

Empty containers retain product residue (liquid and/or vapor) **Contaminated Packaging**

and can be dangerous. Dispose of as unused product.

Section 14. Transport Information

	DOT	IMDG	IATA
UN Number	NA 1993	Not regulated	Not regulated
UN Proper Shipping Name	Combustible Liquid,	-	-
	N.O.S.		
	(Diethyldicyclopentadiene,		
	mixture of isomers)		
Transport Hazard Classes	3	-	-
Packing Group	Ш	-	-
Environmental Hazards	-	-	-
Additional Information	-	-	-

Special Precautions for User

: Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transporting in Bulk According to Annex II of MARPOL 73/78 and the IBC Code

: Not applicable.

Section 15. Regulatory Information

TSCA (Toxic Substance Control Act):

This product is not listed on the U.S. Toxic Substances Control Act Chemical Inventory (TSCA Inventory). Use of this product is restricted to research and development only. This product must be used under the supervision of a technically qualified individual as defined by the TSCA. This product must not be used for commercial purposes or in formulations for commercial purposes.

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

Fire Hazard (Combustible liquid), Acute Health Hazard (Skin corrosion or irritation; Serious eye damage or eye irritation; Specific Target Organ Toxicity (STOT), single exposure: respiratory irritation).

Massachusetts Right to Know Components

No components are subject to Massachusetts Right to Know Act.

Pennsylvania Right to Know Components

No components are subject to Pennsylvania Right to Know Act.

Section 15. Regulatory Information

New Jersey Right to Know Components

No components are subject to New Jersey Right to Know Act.

California Proposition 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

Section 16. Other Information

National Fire Protection Association (U.S.A.)



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Copyright © 2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

HMIS Rating

HEALTH	1
FLAMMABILITY	2
PHYSICAL HAZARD	1

History

Date of Issue/Date of Revision : 7/20/2023 : 3/15/2015 **Date of Previous Issue**

References None available

Section 16. Other Information

Abbreviations and Acronyms

ACGIH: American Conference of Governmental Industrial Hygienists.

ATE: Acute Toxicity Estimate

CAS: Chemical Abstracts Service (division of the American Chemical Society).

CLP: Classification, Labeling and Packaging (European Union (EU)).

DOT: US Department of Transportation.

GHS: Globally Harmonized System of Classification and Labeling of Chemicals.

HMIS: Hazardous Materials Identification System.

HNOC: Hazards Not Otherwise Classified.

IARC: International Agency for Research on Cancer.

IATA: International Air Transport Association.

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA).

IDLH: Immediately Dangerous to Life or Health (US National Institute for Occupation Health and

Safety (NIOSH)).

IMDG: International Maritime Code for Dangerous Goods.

NFPA: National Fire Protection Association.

NIOSH: National Institute of Occupational Safety and Health.

NTP: National Toxicology Program.

OECD: Organization for Economic Co-Operation and Development.

OEL: Occupational Exposure Limit.

OSHA: Occupational Safety and Health Administration.

PEL: Permissible Exposure Limits.
REL: Recommended Exposure Limits.

SARA: Superfund Amendments and Reauthorization Act.

STEL (ST): Short Term Exposure Limit (ACGIH/NIOSH)

STOT: Specific Target Organ Toxicity.

TLV: Threshold Limit Values (ACGIH).

TWA: Time Weighted Average. VOC: Volatile Organic Compound.

Disclaimer

The information herein is believed to be accurate and is presented in good faith; however, no warranties or representations are made by Ereztech LLC regarding the accuracy or completeness of the information. Ereztech LLC shall not be liable for any damages resulting from the handling, or from the contact with the above product.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.