

## SAFETY DATA SHEET

**Section I: Product and Supplier Identification**

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Product name: CEA

Identified use: Laboratory and R&D use

Manufacturer: NOHMs Technologies

1200 Ridgeway Ave. Suite 110

Rochester, NY 14615

Emergency Tel: 1-585-645-0041

Transportation Emergencies: INFOTRAC 24-hour

1-800-535-5053 (U.S.A.)

1-352-323-3500 (International)

**Section II: Hazards Identification**

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GHS Classification (United States)

Flammable liquids (Category 4), H227

Acute toxicity, Oral (Category 4), H302

Acute toxicity, Inhalation (Category 2), H330

Acute toxicity, Dermal (Category 4), H312

Skin irritation (Category 2), H315

Eye irritation (Category 2A), H319

Germ cell mutagenicity (Category 2), H341

Carcinogenicity (Category 1B), H350

Reproductive toxicity (Category 1B), H360

Specific target organ toxicity -single exposure (Category 3), Respiratory system, H335

Pictogram(s)



Signal word     Danger

Hazard statement(s)

H227     Combustible liquid.

H302 + H312     Harmful if swallowed or in contact with skin.

H315     Causes skin irritation.

H319     Causes serious eye irritation.

H335     May cause respiratory irritation.

H341     Suspected of causing genetic defects.

H350     May cause cancer.

H360     May damage fertility or the unborn child.

## Precautionary statement(s)

- P202 Do not handle until all safety precautions have been read and understood.
- P210 Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.
- P260 Do not breathe dust/ fume/ gas/ mist/ vapors/ spray.
- P264 Wash skin thoroughly after handling.
- P270 Do not eat, drink or smoke when using this product.
- P271 Use only outdoors or in a well-ventilated area.
- P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
- P284 Wear respiratory protection.
- P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. Rinse mouth.
- P302 + P352 + P312 IF ON SKIN: Wash with plenty of water. Call a POISON CENTER/ doctor if you feel unwell.
- P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor.
- P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P308 + P313 If exposed or concerned: Get medical advice/ attention.
- P332 + P313 If skin irritation occurs: Get medical advice/ attention.
- P337 + P313 If eye irritation persists: Get medical advice/ attention.
- P362 Take off contaminated clothing and wash before reuse.
- P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam 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 to an approved waste disposal plant

## Section III: Composition

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Name	% (w/w)
Phosphorus compound	>99.9

The ingredient name and/or exact percentage is being withheld as a trade secret.

## Section IV: First Aid Measures

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General Information: Immediately remove any clothing contaminated by the product. Move out of dangerous area. Consult a physician and show this safety data sheet.

Inhalation: If inhaled, remove to fresh air away from exposure. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

**Skin exposure:** In case of skin contact, immediately wash skin with soap and copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes.

**Eye exposure:** In case of eye contact, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Get medical attention.

**Ingestion:** If swallowed, wash out mouth with water provided person is conscious. Get medical attention.

**Most important symptoms and effects, both acute and delayed:** No further information available. Please see sections 2 and 11.

**Indication of any immediate medical attention and special treatment needed:** No further information available.

## Section V: Firefighting Measures

**Suitable extinguishing media:** Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Dry chemical, carbon dioxide, water spray or alcohol-resistant foam.

**Specific hazards arising from the chemical:** Carbon oxides, oxides of phosphorus.

**Protective Equipment and Precautions for Firefighters:** As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## Section VI: Accidental Release Measure

**Personal precautions, protective equipment, and emergency procedures:** Avoid contact with the skin and the eyes. Use personal protective equipment.

**Environmental precautions:** Do not let product enter drains, other waterways, or soil.

**Methods and materials for containment and cleaning up:** Prevent further leak or spill if safe to do so. Vacuum, sweep up, or absorb with inert material and place into a suitable disposal container. Consult local regulations for disposal. See section 13 for further disposal information.

## Section VII: Handling and Storage

**Precautions for safe handling:** Avoid contact with skin, eyes, and clothing. Wear personal protective equipment. Handle in accordance with good industrial hygiene and safety practice. Wash hands after handling and before eating, drinking, or smoking. Use with local exhaust ventilation.

**Conditions for safe storage, including any incompatibilities:** Keep container tightly closed in a dry and well-ventilated place. Air, light, and moisture sensitive.

## Section VIII: Exposure Controls and Personal Protection

Exposure limits: No acute toxicity information is available for this product. Possibly irritating to eyes, respiratory system, and skin.

Appropriate engineering controls: Avoid contact with skin, eyes, and clothing. Wash hands before breaks and immediately after handling the product. Facilities storing or utilizing this material should be equipped with an eyewash fountain. Use adequate general and local exhaust ventilation to keep airborne concentrations low.

Personal protection:

Eye/Face protection: Wear safety glasses or goggles where eye contact is possible. Face shield giving full protection to the face when handling liquid material.

Hands: Protective gloves.

Skin and body: Wear protective gloves/clothing.

Respiratory: In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit.

## Section IX: Physical and Chemical Properties

Appearance: Colorless liquid

Odor: no odor

Molecular weight: N/A

pH: N/A

Melting point: N/A

Boiling point: N/A

Flash point: N/A

Flammability: N/A

Explosive properties: N/A

Oxidizing properties: N/A

Vapor pressure: N/A

Density: N/A

Solubility: Insoluble in water.

Partition coefficient: N/A

Decomposition temperature: N/A

Viscosity: N/A

Vapor density: N/A

Evaporation rate: N/A

Molecular formula: N/A

## Section X: Stability and Reactivity

Reactivity: Not available.

Chemical stability: Stable under recommended temperatures and pressures.

Possibility of hazardous reactions: Not available.

Conditions to avoid: Strong heating.

Incompatible materials: Strong acids, Strong bases, Heavy metals, Strong oxidizing agents.

Hazardous decomposition products: Carbon oxides, oxides of phosphorus.

## Section XI: Toxicological Information

Acute toxicity: No data available.

Skin irritation: No data available.

Eye irritation: No data available.

Respiratory: No data available.

Germ cell mutagenicity: No data available.

Carcinogenicity: No data available.

Reproductive toxicity: No data available.

Specific target organ toxicity – single exposure: No data available.

Specific target organ toxicity – repeated exposure: No data available.

Aspiration hazard: No data available.

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

## Section XII: Ecological Information

Ecotoxicity: The environmental impact of this product has not been fully investigated.

Persistence and degradability: Not available.

Bioaccumulative potential: Not available.

Mobility in soil: Not available.

Other adverse effects: Not available

## Section XIII: Disposal Consideration

Waste disposal of substance:

Incinerate in suitable incineration plant, observing local authority regulations.

Contaminated packing:

Dispose of as unused product.

## Section XIV: Transport Information

Land transport (USDOT):

UN Number: 2810      Class: 6.1      Packing group: III

Proper shipping name: Toxic, liquids, organic, n.o.s. (Phosphorus compounds)

Reportable Quantity (RQ):

Poison Inhalation Hazard: No

Sea transport (IMDG):

UN Number: 2810      Class: 6.1      Packing group: III

Proper shipping name: Toxic, liquids, organic, n.o.s. (Phosphorus compounds)

Air transport (IATA/ICAO):

UN Number: 2810      Class: 6.1      Packing group: III

Proper shipping name: Toxic, liquids, organic, n.o.s. (Phosphorus compounds)

## Section XV: Regulatory Information

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TSCA (United States) This product is NOT on the EPA Toxic Substance Control Act (TSCA) inventory. The product is supplied solely for use in research and development by or under the supervision of a technically qualified individual as defined in 40 CFR § 720 et seq. The health risks have not been fully determined. Any information that is or becomes available will be supplied on the SDS.

## Section XVI: Other Information

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