Elegant Processes.
Sustainable Products.

SAFETY DATA SHEET

1. Product and Company Identification

Product Name: Citropol® HA

Synonyms: Polycitronellol Acetate
Citronellol Polymer Acetate

Version #02: 10/19/2020

Supplier: P2 Science Inc.
4 Research Drive
Woodbridge, CT 06525
USA
Phone: +1 (203) 821-7457
www.p2science.com

Use: Ingredient in consumer products

24-Hour Emergency Assistance **CHEMTREC: +1-800-424-9300**

2. Hazards Identification

Potential Health Hazards: None known.

Potential Environmental Hazards: None known.

Chronic Effects: None known.

Potential Physical Hazards: None known.

3. Composition/Information on Ingredients

Substance

Chemical Name: Polycitronellol Acetate

4. First Aid Measures

Inhalation
If not breathing, give artificial respiration. Consult a physician.

Skin Contact
Wash off with soap and plenty of water. Consult a physician.

Eye Contact
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

Swallowed
Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

5. Fire Fighting Measures

Suitable extinguishing media
Dry chemical, carbon dioxide, water spray, fog or foam.

Special protective equipment for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

Hazardous combustion products
Hazardous decomposition products formed under fire conditions. - Carbon oxides

6. Accidental Release Measures

Personal precautions
Use eye protection and gloves. Avoid breathing aerosol if present.

Environmental precautions
Do not let product enter drains.

Methods and materials for containment and cleaning up
Use suitable absorbent material. Place in suitable, closed containers for disposal.

7. Handling and Storage

Precautions for safe handling
Avoid contact with skin and eyes. Avoid formation of dust and aerosols.

Conditions for safe storage
Keep container tightly closed in a cool and well-ventilated place.

8. Exposure Controls/Personal Protection

Control Parameters
Contains no substances with occupational exposure limit values.

Personal protective equipment

- **Respiratory protection:** Product is not volatile. No respiratory protection required, unless there is a risk of exposure to aerosols. In that case, use a full-face respirator with multi-purpose 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).
- **Hand protection:** Product is not considered a skin irritant. However, to avoid any potential concerns, handle with 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. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.
- **Eye protection:** Product is not an eye irritant. However, as a precautionary measure use tightly fitting safety goggles. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN (EU).
- **Skin and body protection:** Product is not a skin irritant. Therefore, skin and body protection is not necessary. However, if product is splashed on clothes or skin, remove contaminated clothing and wash with soap and water.
- **Hygiene measures:** Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

9. Physical and Chemical Properties

Appearance

Form:	Liquid
Color:	Colorless to light yellow
Odor:	Odorless
Melting point/freezing point:	No data available
Boiling point range:	No data available
Flash point:	>150° C
Evaporation rate:	No data available
Flammability:	No data available
Autoignition temperature:	No data available
Lower explosion limit:	No data available
Upper explosion limit:	No data available
Vapor pressure:	No data available
Density:	Approx. 0.890 g/cm^3 at 25°C
Water solubility:	Virtually insoluble
Other solubility:	Alcohols and oils
pH:	Approx. 7
Viscosity (dynamic)	85-110 mPa.s at 25°C
Viscosity (kinematic)	95-125 mm^2/s^2 at 25°C
Partition Coefficient (n-octanol:water)	No data available
Thermal decomposition	Decomposition begins at >160°C

10. Stability and Reactivity

Chemical stability
Stable under recommended storage conditions.

Possibility of hazardous reactions
No data available

Conditions to avoid
No data available

Materials to avoid
Strong oxidizing agents, Strong reducing agents, Strong bases

Hazardous decomposition products
Hazardous decomposition products formed under fire conditions. - Carbon oxides

11. Toxicological Information

Acute toxicity:
(Dermal, Oral, Inhalation LD $_{50}$) No data available

Skin corrosion/irritation: Predicted to be a non-irritant in an EpiDerm™ Skin Irritation Test (OECD 439)

Skin sensitization: Based on the available data, this product is not expected to induce skin sensitization.

Result	Species/Test System	Source
Negative for skin sensitization	Direct Protein Reactivity Assay (OECD TG 442C)	Third Party Testing
Negative for skin sensitization	Human Cell Line Activation Test (h-CLAT; OECD TG 442E)	Third Party Testing
Negative for skin sensitization	SENS-IS	Third Party Testing

Respiratory sensitization: No data available

Serious eye damage/eye irritation: Not considered an eye irritant (Bovine Corneal Opacity Assay; OECD TG 437)

Phototoxicity: Negative for phototoxicity (3T3 Neutral Red Uptake Assay; OECD TG 432)

Germ cell mutagenicity and clastogenicity Negative in Bacterial Reverse Mutation Test (OECD TG 471)
Negative in in vitro Mammalian Cell Micronucleus Test (OECD TG 487)

Carcinogenicity 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, ACGIH, NTP or OSHA.

Reproductive toxicity No data available

Aspiration hazard Not an aspiration hazard

Specific target organ toxicity-single exposure No data available

Specific target organ toxicity-repeated exposure No data available

12. Ecological Information

Toxicity: No data available

Persistence and degradability: Based on the available data, threshold requirements for Inherent Biodegradability were achieved.

Result	Species/Test System	Source
Inherent Biodegradability	CO_2 Evolution Test (OECD TG 301B)	Third Party Testing

Bioaccumulative potential No data available

Mobility in soil: No data available

PBT and vPvB assessment: No data available

Other adverse effects: No data available

13. Disposal Considerations

Product
Dispose as non-hazardous waste.

Contaminated packaging
Dispose as non-hazardous waste.

14. Transport Information

DOT (US) Non-regulated

IMDG Non-regulated

IATA Non-regulated

15. Regulatory Information

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
No SARA Hazards

Massachusetts Right To Know Components
No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know Components
No components

New Jersey Right To Know Components
No components
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.

16. Other Information

The above information is believed to be correct but does not purport to be all- inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. P2 Science, Inc, shall not be held liable for any damage resulting from handling or from contact with the above product. It is the user's responsibility to determine the safety, toxicity, and suitability for their own use of the product described herein.

Date of Last Change: October 19, 2020