



Elegant Processes.
Sustainable Products.

SAFETY DATA SHEET

According to the 2012 US OSHA Hazard Communication Standard (29 CFR 1910.1200)

1. Product and Company Identification

Product Name: Herbenone™

Version #02: 4/12/2021

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

Use: Fragrance ingredient in consumer products

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

2. Hazards Identification

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Flammable Liquids	Category 4
Skin Sensitization	Category 1B

Label Elements

Signal Word

Warning

Hazard Statements

Combustible liquid

May cause an allergic skin reaction



Precautionary Statements

Prevention

Keep away from flames and hot surfaces. – No smoking.
Wear protective gloves/eye protection/face protection.
Contaminated work clothing must not be allowed out of the workplace.

Response

In case of fire: Use CO₂, dry chemical or foam to extinguish.
If on skin: wash with plenty of soap and water.
If skin irritation or rash occurs: Get medical advice/attention.
Specific treatment: See Section 4.
Wash contaminated clothing before reuse.

Storage

Store in a well-ventilated place. Keep container tightly closed. Store locked up.

Disposal

Dispose of contents/container to an approved waste disposal facility.

3. Composition/Information on Ingredients

Substance

Name: Isopulegylenone
CAS #: 36129-14-3
Synonym(s): L-Isopulegol Enone; Chiral Enone
Trade Name: Herbenone™

4. First Aid Measures

Inhalation

If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center or physician if feeling unwell. 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

Immediately call a poison center or physician. Do NOT induce vomiting.

5. Fire Fighting Measures

Suitable extinguishing media

Dry chemical, carbon dioxide 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 face and eye protection, and gloves. Avoid breathing aerosol or vapors 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 aerosols.

Conditions for safe storage

Keep container tightly closed in a cool, locked and well-ventilated place.

8. Exposure Controls/Personal Protection

Control Parameters

Contains no substances with occupational exposure limit values.

Personal protective equipment

- **Respiratory protection:** 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:** 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:** Use tightly fitting safety goggles. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US).
- **Skin and body protection:** If product is splashed on clothes or skin, remove contaminated clothing and wash skin 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
Odor:	Basil, anise
Melting point/freezing point:	No data available
Boiling point range:	No data available
Flash point:	80° 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:	0.900 – 0.940 g/cm ³
Water solubility:	No data available
Other solubility:	No data available
pH:	No data available
Viscosity (dynamic):	No data available
Viscosity (kinematic):	No data available
Partition Coefficient (n-octanol:water):	No data available
Refractive Index:	1.40 – 1.50 at 20°C
Thermal decomposition:	No data available

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:	Not classified. Acute Oral LD ₅₀ > 2000 mg/kg.
Skin corrosion/irritation:	No data available.
Serious eye damage/eye irritation:	No data available.
Respiratory of Skin sensitization:	Skin sensitizer category 1B. Mouse Local Lymph Node Assay EC3 = 10%.
Germ cell mutagenicity:	Not classified. Substance was not mutagenic in a Bacterial Reverse Mutation Test (i.e., Ames Assay; OECD TG 471).
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, NTP or OSHA.
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	Not classified. Substance is not a hydrocarbon.

12. Ecological Information

Toxicity:	No data available.
Persistence and degradability:	Substance was readily biodegradable in a MITI (I) Test for biodegradability (OECD TG 301C).
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

Dispose of in accordance with national, state and local regulations. It is the waste generator's responsibility to determine if a particular waste is hazardous under RCRA.

14. Transport Information

DOT (US)	Material considered to be Combustible Liquid
IMDG	Not regulated
IATA	Not 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: April 12, 2021