

SAFETY DATA SHEET in accordance with the requirements of US 29 CFR 1910.1200

1. Product and Company Identification

Product Name: CitroVisc[™] 10k

Version #01: 3/15/2021

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 CHEMTREC: +1-800-424-9300 Assistance

2. Hazards Identification

2.1. Classification according to the Globally Harmonized System of Classification and Labelling of Chemicals		
(GHS) - Rev. 8:	Not classified - No known hazards	
2.2. GHS Label Elements:	Not a dangerous substance according to GHS.	
2.3. Other Hazards:	None known.	

3. Composition/Information on Ingredients

This product is a blend of two ingredients, identified below. The percentage composition is proprietary.

Chemical Name	Synonym(s)	CAS
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		Number
6-octen-1-ol, 3,7-dimethyl-,	Polycitronellol	888224-71-
homopolymer		3
Glycerides, C16-18 and C18-	Hydrogenated Vegetable Oil	67701-30-8
unsaturated		

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 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).
- 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 are 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 the workday.

9. Physical and Chemical Properties

Appearance

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Form:	Viscous liquid
Color:	Opaque
Odor:	No data available
Melting point/freezing point:	No data available
Boiling point range:	No data available
Flash point:	> 180°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 (g/mL):	0.890 – 0.970
Water solubility:	Virtually insoluble
Other solubility:	No data available
pH:	No data available
Viscosity (dynamic)	9000-11000 mPa.s at 21°C
Partition Coefficient (n-octanol:water)	No data available

Refractiv	ve Index	@ 20°C:
Surface	Tension	(mN/m):

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: Vegetable Oil	No data available for Polycitronellol. Hydrogenated	
(Dermal, Oral, Inhalation LD 50) substances/products of a	LD_{50} > 2000 mg/kg (rat) based on data from	
	similar structure or composition (information from Safety Data Sheet provided by supplier of Hydrogenated Vegetable Oil).	
Skin corrosion/irritation:	Not classified. Polycitronellol did not produce any skin irritation in a Human Repeat Insult Patch Test (HRIPT) in 103 subjects. In addition, it was predicted to be a non- irritant in an EpiDerm [™] Skin Irritation Test (OECD 439). Hydrogenated Vegetable Oil not classified as irritating to skin based on slight irritation observed in rabbit skin irritation study with substances/ products of a similar structure or composition (information from Safety Data Sheet provided by supplier of Hydrogenated Vegetable Oil).	
Skin sensitization:	Not classified. Polycitronellol did not exhibit any skin sensitization potential in a Human Repeat Insult Patch Test (HRIPT) with 103 subjects. In addition, it was found negative for skin sensitization in three in vitro assays:	

	<u>Result</u>	Species/Test System	<u>Source</u>
	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 in structurally related material Polycitronellol Acetate	SENS-IS	Third Party Testing
		Hydrogenated Vegetable Oil der skin sensitizing potential (staten Sheet provided by supplier of Hy Oil).	nent from Safety Data
Re	espiratory sensitization:	No data available.	
Se	rious eye damage/eye irritation:	Not classified. Polycitronellol no irritant based on testing with str (Polycitronellol Acetate) in Bovin (OECD TG 437). Hydrogenated to eyes based on rabbit eye irrit substances/ products of a simila (information from Safety Data SI of Hydrogenated Vegetable Oil).	ucturally related material ne Corneal Opacity Assay Vegetable Oil not irritating ation study with ar structure or composition neet provided by supplier
Ph	ototoxicity:	Polycitronellol was negative for phototoxicity based on testing with structurally related material (Polycitronellol Acetate) in 3T3 Neutral Red Uptake Assay (OECD TG 432). No data available for Hydrogenated Vegetable Oil.	
Ge	enetic Toxicity	Not classified. Polycitronellol negative based on testing with structurally related material (Polycitronellol Acetate) i Bacterial Reverse Mutation Test (OECD TG 471) and in vitro Mammalian Cell Micronucleus Test (OECD 487). Hydrogenated Vegetable Oil does not suggest a specific alert for genetic toxicity based on its structure; in addition no mutagenicity was observed in Bacterial Reverse Mutation Testing using <i>Salmonella typhimurium</i> with substances/ products of a similar structure or composition (information from Safety Data Sheet provided by supplier of Hydrogenated Vegetable Oil).	
Ca	rcinogenicity	No data available. No compone at levels greater than or equal to probable, possible or confirmed IARC, ACGIH, NTP or OSHA.	0.1% is identified as
Re	productive toxicity	No data available.	
As tha	piration hazard	Not classified. Based on expert	judgement and the fact
u là	at	Polycitronellol and Hydrogenate	d Vegetable Oil are not

	hydrocarbons. In addition, the Safety Data Sheet provided by the supplier of Hydrogenated Vegetable Oil stated no aspiration hazard expected.
Specific target organ toxicity- single exposure	No data available for Polycitronellol. The Safety Data Sheet provided by the supplier of Hydrogenated Vegetable Oil stated that based on available data the classification criteria are not met.
Specific target organ toxicity- repeated exposure	No data available for Polycitronellol. The Safety Data Sheet provided by the supplier of Hydrogenated Vegetable Oil stated that the information available on the product provides no indication of toxicity to target organs after repeated exposure.
12. Ecological Information	
12.1. Toxicity:	No data available for Polycitronellol. For Hydrogenated Vegetable Oil, fish LC50 > 100 mg/L and bacteria EC0 > 100 mg/L based on data from substances/products of a similar structure or composition (information from Safety Data Sheet provided by supplier of Hydrogenated Vegetable Oil).
12.2. Persistence and degradability	Polycitronellol met the threshold requirements for Inherent Biodegradability in a CO2 Evolution Test (OECD 301B). According to the Safety Data Sheet for Hydrogenated Vegetable Oil provided by the supplier, this substance is readily biodegradable according to OECD criteria.
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	Inherent Biodegradability in a CO2 Evolution Test (OECD 301B). According to the Safety Data Sheet for Hydrogenated Vegetable Oil provided by the supplier, this substance is readily biodegradable according to OECD criteria.
12.3. Bioaccumulative potential	Inherent Biodegradability in a CO2 Evolution Test (OECD 301B). According to the Safety Data Sheet for Hydrogenated Vegetable Oil provided by the supplier, this substance is readily biodegradable according to OECD criteria. No data available.
12.3. Bioaccumulative potential 12.4. Mobility in soil:	 Inherent Biodegradability in a CO2 Evolution Test (OECD 301B). According to the Safety Data Sheet for Hydrogenated Vegetable Oil provided by the supplier, this substance is readily biodegradable according to OECD criteria. No data available. No data available.
12.3. Bioaccumulative potential 12.4. Mobility in soil: 12.5. Other adverse effects:	 Inherent Biodegradability in a CO2 Evolution Test (OECD 301B). According to the Safety Data Sheet for Hydrogenated Vegetable Oil provided by the supplier, this substance is readily biodegradable according to OECD criteria. No data available. No data available.
 12.3. Bioaccumulative potential 12.4. Mobility in soil: 12.5. Other adverse effects: <u>13. Disposal Considerations</u> Product 	 Inherent Biodegradability in a CO2 Evolution Test (OECD 301B). According to the Safety Data Sheet for Hydrogenated Vegetable Oil provided by the supplier, this substance is readily biodegradable according to OECD criteria. No data available. No data available.
 12.3. Bioaccumulative potential 12.4. Mobility in soil: 12.5. Other adverse effects: 13. Disposal Considerations Product Dispose as non-hazardous waste. Contaminated packaging 	 Inherent Biodegradability in a CO2 Evolution Test (OECD 301B). According to the Safety Data Sheet for Hydrogenated Vegetable Oil provided by the supplier, this substance is readily biodegradable according to OECD criteria. No data available. No data available.

IMDG	Non-regulated	
ΙΑΤΑ	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: March 15, 2021