



HOPZOIL MAJIK™

Material Safety Data Sheet

**Hopzoil™ Fresh-Hop Steam-Distilled Essential Oil
Water-soluble
All Varieties & Blends**



Glacier Hops Ranch, Inc.
205 Junes Way, Suite 1
Whitefish, MT 59937 USA
info@hopzoil.com

Material Safety Data Sheet

Note

Liquid hop oil is not classified as a dangerous product according to European Union legislation, and its use is as a food product in beer and other beverages, as well as an aromatic essential oil ingredient in other products. However, this safety data sheet is providing voluntarily according (as appropriate) to the principles of the Classification, Labelling and Packaging Regulations (Regulation (EC) No. 1272/2008).

1. Identification of the Preparation and the Company

1.1 Product Identifier	Hopzoil MAJIK™
Synonyms	Farm-fresh steam-distilled hop oil, water-soluble
1.2 Relevant Uses	For use as an ingredient in the brewing of beer, other beverages including cider, and as an essential oil ingredient in other products.
1.3 Supplier	Glacier Hops Ranch, Inc. 205 Junes Way, Ste 1, Whitefish, MT USA 59937
1.4 Emergency Contact Details:	Emergency phone: +1 406.257.5368 (M-F, 6 am to 5 pm Mountain Time Zone), +1 406.250.5053 alternate phone Email: hops@glacierhopsranch.com

2. Hazards Identification

2.1 Classification:	Not classified (Regulation (EC) No. 1272/2008) Not classified (Directive 67/548/EEC)
2.2 Label Elements:	N/A (not classified)
2.3 Other Hazards:	This product is a liquid steam-distillate of fresh hops for use as an ingredient in beverages and other products. It has not been fully tested. Ingestion of a large dose may cause irritation of mouth, throat and digestive tract. The product may cause eye irritation and prolonged handling may cause dermatitis.

3. Components/Information on Ingredients

The product is comprised of aromatic oils (terpenes) distilled from fresh, undried and unprocessed hop cones of the cultivated hop plant *Humulus lupulus*. Many different hop varieties and steam distillate formulations and procedures exist. This MSDS applies equally to all hops oils varieties produced by us. It is possible that the oil distillate may contain nominal steam condensate (water) agents. Secondary, additional inert ingredients to facilitate emulsification may include: Highly Refined MCT Oil, Polysorbate 80, Biobased Propylene Glycol, Highly Refined Sunflower Lecithin, Citric Acid, Salt, Sodium Citrate. All are FDA recognized as GRAS.

4. First Aid Measures

4.1 Description of First Aid Methods:	<u>Inhalation:</u> Move to fresh air. <u>Skin Contact:</u> Wash skin thoroughly with soap and water <u>Eye Contact:</u> Flush the eye with plenty of water. If any symptoms persist, obtain medical attention. <u>Oral Ingestion:</u> Drink large amounts of water to dilute. Vomiting may occur but should not be induced. Obtain medical attention if symptoms persist.
4.2 Most Important Symptoms and Effects	May cause irritation of eyes if in contact with eyes

Indication of Immediate Medical Attention or Special Treatment	None known.
5. Fire-Fighting Measures	
5.1 Extinguishing media:	Carbon dioxide, dry powder and foam
5.2 Special Hazards Arising from Substance:	Contains concentrated hop oil. Hop oil is not known to be combustible subject to a direct open flame, and may give rise to hazardous fumes in a fire.
5.3 Advice for Firefighters:	Fire fighters should wear self-contained positive pressure breathing apparatus
6. Accidental Release Measures	
6.1 Personal Protection:	Wear appropriate protective clothing - See Section 8.
6.2 Environmental Precautions:	Do not discharge onto the ground or into watercourses
6.3 Methods for Cleaning Up	Contain spillage using earth, sand or other inert material. Transfer to suitable sealed container prior to disposal. Flush area with hot soapy water or biodegradable surfactants (i.e. Dawn detergent) and water to remove final traces. Use adequate ventilation or a respirator if in a confined area.
7. Handling and Storage	
7.1 Precautions for Safe Handling:	Avoid excessive contact with product. Use appropriate protective clothing as indicated in Section 8. Wash hands after use.
7.2 Conditions for Safe Storage	Can be stored at room temperature (above 41°F and below 90°F / above 5° C and below 32° C). DO NOT FREEZE. Do not store in an area subject to high temperatures (i.e. automobile trunk or furnace room). Suitable storage is high grade stainless steel, glass, low-density polyethylene (LDPE) and high-density polyethylene (HDPE), and polyethylene terephthalate (PET).
7.3 Specific End Uses:	The substance is manufactured for use as a food ingredient and for such uses is not subject to registration via REACH (Regulation (EC) No.1907/2006). It should be used in accordance with applicable food legislation.
8. Exposure Controls / Personal Protection	
8.1 Control Parameters:	Not applicable
8.2 Exposure Controls:	<u>Engineering Controls:</u> Provide adequate ventilation <u>Eye/Face Protection:</u> Chemical goggles must be worn during handling <u>Hand Protection:</u> PVC, rubber, latex or nitrile gloves <u>Skin Protection:</u> If danger of splashing, wear PVC or rubber apron. <u>Respiratory Protection:</u> Not normally required.
9. Physical and Chemical Properties	
Appearance:	Viscous liquid, clear to light beige/tan
Odor:	Characteristic of respective hop varieties, can range from citrus to floral, fruity (tropical fruit, stone fruit, passionfruit, etc), to resinous, piney or other aromatic characteristics, depending on variety.
Odor Threshold:	No data available
pH:	No data available
Melting Point:	No data available
Boiling Point:	No data available
Flash Point:	Various terpene compounds have flash points ranging from 89°F to 320°F, of which the composition of these compounds vary by variety. Aggregate flash point has been tested at 50 degrees Centigrade (120 degrees Fahrenheit).
Evaporation Rate:	No data available
Flammability:	Does not combust when exposed to open flame, in open air environment.

Upper/Lower Flammability:	No data available
Vapor Pressure:	No data available
Vapor Density:	No data available
Solubility in Water:	Water-miscible; hydrophilic
Partition Coefficient:	No data available
Autoignition Temperature:	No data available
Decomposition Temperature:	No data available
Viscosity at 20° C:	No data available
Explosive Properties:	No data available
Oxidizing Properties:	No data available
10. Stability and Reactivity	
10.1 Reactivity:	No reactivity hazards known
10.2 Chemical Stability:	Stable if stored in accordance with 7.2
10.3 Possibility of Hazardous Reaction:	None known.
10.4 Conditions to Avoid:	Keep container closed when not in use
10.5 Incompatible Materials:	None known.
10.6 Hazardous Decomposition Products:	None known.
11. Toxicological Information	
11.1 Acute Toxicity	No data available. Hops and liquid hop extracts of many types are generally recognized as safe (GRAS) for their intended use in accordance with US FDA regulation, 21 CFR 182.20. No TLVs established.
11.2 Skin Corrosion/Irritation	No data available
11.3 Serious Eye Damage/Irritation	No data available
11.4 Respiratory or Skin Sensitization	No data available
11.5 Germ Cell Mutagenicity	No data available
11.6 Carcinogenicity:	No data available
11.7 Reproductive Toxicity:	No data available
11.8 STOT - Single Exposure	No data available
11.9 STOT - Repeated Exposure	No data available
11.10 Aspiration Hazard	No data available
12. Ecological Information	
12.1 Toxicity:	No data available
12.2 Persistence and Degradability:	No data available
12.3 Bio-accumulative Potential	No data available
12.4 Mobility in Soil:	No data available

12.5 Results of PBT and vPvB Assessment:	No data available
12.6 Other Adverse Effects	No data available

13. Disposal Considerations

Product Disposal:	Dispose in accordance with all applicable local and national regulations
Container Disposal:	Labels should not be removed from containers until they have been cleaned. Contaminated containers should not be treated as household waste. Containers should be cleaned using appropriate methods and then re-used, recycled as appropriate or disposed of by landfill or incineration as appropriate.

14. Transport Information

UN-Number:	Non-hazardous for transport
Class:	Non-hazardous for transport
Shipping Name:	N/A
Packing Group:	Non-hazardous for transport
Marine Pollutant:	No data available

15. Regulatory Information

15.1 Safety, Health and Environmental Regulations	No data available
15.2 Chemical Safety	No data available

16. Other Information

The information in this Safety Data Sheet 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 our present knowledge and should be used only as a supplement to information already in your possession concerning this product. It does not represent any guarantee of the properties of the product. The determination of whether and under what condition the product should be used is yours to make. We do not accept any liability for loss, injury or damage that may result from its use.

Date of Original Issue: September 1, 2020
Revised Date: April 11th, 2023