



BoreA
CANADA
Essential Oils

SAFETY DATA SHEET

HOUBLON/ HOP VAR.CASCADE

1. Identification

| | |
|--------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product identifier: | Hop var. cascade |
| Other means of identification: | Houblon / Essential oil of <i>Humulus lupulus</i> var. Cascade / Hop |
| Recommended use and restrictions on use: | Fragrance, food additive (for ORGANIC certified version) |
| Initial supplier identifier: | BoreA Canada (9302-0469 Quebec Inc.) 142, de la Cogeneration Chapais, Quebec Canada, G0W 1H0 Phone: +1-514-910-1812 Email: info@boreacanada.com |
| Emergency telephone number (hours of operation): | +1-613-996-6666 (CANUTEC 24h) |

2. Hazard Identification

GHS Classification:

FLAMMABLE LIQUID – Category 3
SERIOUS EYE DAMAGE / EYE IRRITATION – Category 2B
SKIN CORROSION/IRRITATION – Category 3
ASPIRATION HAZARD – Category 2

GHS information elements



Hazard pictogram(s):

Signal word:

Danger

Hazard statements:

H226 – Flammable liquid and vapour
H304 – May be fatal if swallowed and enters airways
H315 – Causes skin irritation.
H319 – Causes serious eye irritation.

Precautionary statements

Prevention:

P210 – Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233 – Keep container tightly closed.
P264 – Wash hands thoroughly after handling
P280 – Wear protective gloves. Wear eye protection/face protection.

Response:

P305 + P351 + P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P301 + P310 – IF SWALLOWED: Immediately call a POISON CENTER or a doctor.
P331 – Do NOT induce vomiting.

Storage:

P405 – Store locked up.

Disposal:

P501 – Dispose of contents and container in accordance with local regulations.

Other known hazards:

None known.

3. Composition/Information on ingredients

Substance or mixture: Substance
Common name and synonyms: Hop essential oil
Essential oil of *Humulus lupulus*

| Composition | CAS number | EC No. | EINECS No. | FEMA No. | Concentration |
|------------------------------------|------------|-----------|------------|----------|---------------|
| Hop, <i>Humulus lupulus</i> , ext. | 8007-04-3 | 292-504-3 | 292-504-3 | 2580 | ≤ 100 % |

4. First-aid measures

Description of necessary first-aid measures

Inhalation: Remove the patient to open air, far from the contaminated premises; if respiration stops or is difficult, give an artificial respiration adopting the proper measure for the helper. Seek medical advice.

Ingestion: Rinse mouth with water and obtain medical advice immediately.

Skin contact: Remove contaminated clothing. Wash thoroughly with soap and water. Seek medical advice if irritation persists or there is any sign of tissue damage.

Eye contact: Wash with plenty of water.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Specific treatments: No specific treatment.

5. Fire-fighting measures

Suitable extinguishing media: Use dry chemical, CO₂, water spray (fog) or foam.

Unsuitable extinguishing media: Do not use water jet or water-based fire extinguishers.

Specific hazards arising from the hazardous product: None

Special protective equipment and precautions for fire-fighters: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel: Restrict access to area until completion of cleanup. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation.

For emergency responders: Wear adequate personal protective equipment.

Environmental precautions: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Methods and materials for containment and cleaning up

Spill: Limit the spreading of the spillage with non-combustible absorbent material (sand, earth etc). Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind.

7. Handling and storage

Precautions for safe handling: Use appropriate personal protective equipment. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Do not smoke while handling. Keep containers closed when not used.

Advice on general hygiene: Eating, drinking and smoking in working areas should be prohibited. Wash hands with soap and water before meals and at the end of the work shift. Remove contaminated clothing and protective equipment before entering eating areas.

Conditions for safe storage, including any incompatibilities: Store in a well ventilated place. Keep far away from sources of heat, naked flames and sparks and other sources of ignition.

8. Exposure controls/Personal protection

Control parameters: Not available

Appropriate engineering controls: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

Individual protection measures: In order to minimize exposure as far as possible, it is strongly recommended to use adequate individual protective measures, such as: masks suitable for the product, goggles, gloves and overall.

9. Physical and chemical properties

Appearance

Physical state: Liquid

Colour: Light yellow

Odour: Characteristic

Odour threshold: Not available

pH: Not available

Melting point: Not available

Freezing point: Not available

Initial boiling point and boiling range: >71 °C (ASTM D 850)

Flash point: >60 °C c.c. (118°F)

Upper and lower flammability or explosive limits: Not available

Vapour pressure: Not available

Vapour density: Not available

Relative density: 0.879 – 0.900 at 20°C

Solubility: Insoluble

Partition coefficient — n-octanol/water: Not available

Auto-ignition temperature: Not available

Decomposition temperature: Not available

Viscosity: Not available

10. Stability and reactivity

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|-------------------------------------|------------------------------------------------------------------------------------------|
| Reactivity: | No specific test data related to reactivity available for this product |
| Chemical stability: | The product is stable |
| Possibility of hazardous reactions: | Under normal conditions of use and storage, hazardous reactions will not occur |
| Conditions to avoid: | Avoid heat and all possible sources of ignition (spark or flame). |
| Incompatible materials: | Strong oxidizing materials. |
| Hazardous decomposition products: | Liable to cause smoke & acrid fumes during combustion: carbon monoxide, carbon dioxide & |

11. Toxicological information

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|--------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
| Acute toxicity: | LD50 Oral (rat) > 3,500 mg/kg |
| Information on the likely routes of exposure: | Dermal contact. Eye contact. Inhalation. Ingestion. |
| Symptoms related to the physical, chemical and toxicological characteristics | |
| Inhalation: | Not categorised as such under EC 1272/2008 but likelihood of sensitisation exists. Avoid skin |
| Ingestion: | Ingestion may be harmful. May be harmful if swallowed and enter airways. |
| Skin contact: | Skin corrosion/irritation hazard Category 2 according to UN-GHS & EU-CLP following EC |
| Eye contact: | Serious eye damage/irritation Category 2 according to UN-GHS & EU-CLP following EC |
| Delayed and immediate effects, and chronic effects from short-term and long-term exposure: No known significant effects or critical hazards. | |
| Numerical measures of toxicity: Not considered mutagenic, Not considered carcinogenic, Not considered reprotoxic, Not photo-toxic | |

12. Ecological information

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|--------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| Ecotoxicity | According to UN-GHS & EU-CLP following EC 1272/2008: Hazardous to the aquatic environment — long-term hazard, Category chronic 3. |
| Persistence and degradability: | No data available |
| Bioaccumulative potential: | No data available |
| Mobility in soil: | No data available |
| Other adverse effects: | No data available |

13. Disposal considerations

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|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Disposal methods: | Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations. Disposal must be performed through an authorized waste management firm, in compliance with national and local regulations. |
| Contaminated packaging: | Contaminated packaging must be recovered or disposed of in compliance with Federal and Provincial waste management regulations. |

14. Transport information



Warning Icon:

| | |
|-----------------------|----------------------------------------|
| UN number: | UN1197 |
| Proper shipping name: | Extracts, liquid, for flavour or aroma |
| Hazard class: | 3 |
| Packing group: | III |
| Environmental hazard: | Not applicable |
| Special precautions: | Not applicable |

15. Regulatory information

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|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| EU Directives | Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18th Dec 2006 Concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 199/45/EC and repealing Council Regulation Council Regulation (EEC) No793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, and 93/105/EEC and 2000/21/EC including amendments. |
| Statutory Instruments | The Chemicals (Hazard Information and Packaging for Supply Regulations 2009 (S.I. 2009 No 716). |
| Approved Code of Practice | Classification and Labelling of Substances and Preparations Dangerous for Supply. Safety Data Sheets for Substances and Preparations |
| Guidance Notes | Workplace Exposure Limits EH40. CHIP for everyone HSG 108. |

16. Other information

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|--------------------|------------|
| SDS information | |
| Version: | 3 |
| Date (dd/mm/yyyy): | 12/02/2023 |
| Prepared by: | JCV |

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product. This document must not be regarded as a guarantee on any specific product property. The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.