

INCOGNITO®

Safety Data Sheet

1. IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY

1.1 Product Identifier	INCOGNITO®
1.2 Synonyms	CO2 Extract of hops
1.3 Relevant Uses	For use as an ingredient in the brewing of beer
1.4 Supplier	BarthHaas / John I. Haas, Inc.
1.5 Emergency Contact Details	BarthHaas / John I. Haas, Inc. 1600 River Rd., Yakima, WA 98902, USA. Emergency phone: +1 509 469 4000 (office hours) Email: info@johnihaas.com

2. HAZARD IDENTIFICATION

- 2.1 Classification** Not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)
- 2.2 Label Elements** N/A
- 2.3 Other Hazards** This product is an extract of hops for use as an ingredient for the brewing of beer. 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 a mixture of bitter and aroma substances and hop oils extracted from the dried cones of the cultivated hop plant *Humulus lupulus*

Hop Extract, CAS: 8060-28-4 EINECS No. 232-504-3

4. FIRST AID MEASURES

4.1 Description of First

Aid Methods:

- **Inhalation**
 - **Skin Contact**
 - **Eye Contact**
 - **Oral Ingestion**
- Move to fresh air
 - Wash skin thoroughly with soap and water
 - Flood the eye with plenty of water. If any symptoms persist obtain medical attention.
 - 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.

4.3 Indications of Immediate Medical

None known

5 FIRE AID MEASURES

5.1 Extinguishing Media Carbon dioxide, dry powder, foam.

5.2 Special Hazards Arising from Substance Contains small amounts of hop oil. Hop oil is combustible 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 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

Store at 20 °C (68 °F). Keep container closed when not in use.

Use opened containers as soon as possible. Suitable storage is in glass, high density polyethylene, and high phenolic lacquered mild steel.

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:

- | | |
|---------------------------------|---|
| - Engineering Controls | - Provide adequate ventilation |
| - Eye/Face Protection | - Chemical goggles must be worn during handling |
| - Hand Protection | - PVC, rubber, latex or nitrile gloves |
| - Skin Protection | - If danger of splashing wear PVC or rubber apron |
| - Respiratory Protection | - Not normally required |

9. PHYSICAL AND CHEMICAL PROPERTIES

a) Physical state	Viscous liquid
b) Color	Light amber to yellow
c) Odor	Characteristic, resinous aroma, typical hoppy
d) Melting point/Freezing point	Not practical to measure
e) Boiling point	Not practical to measure
f) Flammability	Not practical to measure
g) Lower and upper explosion limit	Not practical to measure
h) Flash point	> 60 °C
i) Auto-ignition temperature	Not practical to measure
j) Decomposition temperature	Not practical to measure
k) pH	Not practical to measure
l) Kinematic viscosity	Typically in the range of 2000 – 3000 cPs
m) Solubility	Insoluble, Forms an emulsion
n) Partition coefficient n-octanol/water (log value)	Not practical to measure
o) Vapor pressure	Not practical to measure

- p) **Density [kg/m³]** 800 – 1000
- q) **Relative vapor density** Not practical to measure
- r) **Particle characteristics** Not practical to measure

10. STABILITY AND REACTIVITY

- 10.1 Reactivity** No reactivity hazards known.
- 10.2 Chemical Stability** Stable if stored according to Section 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 hop extracts 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 Ecotoxicity No data available

12.2 Persistence and Degradability No data available

12.3 Bioaccumulative Potential No data available

12.4 Mobility in Soil No data available

12.5 Results of PBT Exposure: No data available

12.6 Other Adverse Effects Exposure No data available

13. DISPOSAL CONSIDERATIONS

- 13.1 Product Disposal** Dispose in accordance with all applicable local and national regulations.
- 13.2 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 or disposed of by landfill or incineration as appropriate.

14. TRANSPORT INFORMATION

- 14.1 UN-Number** Non-hazardous for transport
- 14.2 Shipping Name** N/A
- 14.3 Transport Hazard Class** Non-hazardous for transport
- 14.4 Packing Group** Non-hazardous for transport
- 14.5 Marine Pollutant** No data available

15. REGULATORY INFORMATION

- 15.1 Safety, Health, and Environmental Regulations** No data available
- 15.2 Chemical Safety Assessments** 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.