

CO₂ Hop Extract Safety Data Sheet

Note

Hop Extract is not classified as a dangerous product according to European Union legislation, and its use is as a food product in the brewing of beer. However, this safety data sheet is provided 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 of the Company
1.1 Product Identifier:	CO ₂ Hop Extract
Synonyms:	Kettle Extract, Liquid CO ₂ Extract, Supercritical CO ₂ Extract, Pure Resin Extract, Standardized Extract, Oil Enriched Extract, Oil Reduced Extract
1.2 Relevant Uses	For use as an ingredient in the brewing of beer
1.3 Supplier: 1.4 Emergency Contact Details:	Barth-Haas Group / Botanix Ltd. Hop Pocket Lane, Paddock Wood, Kent, TN12 6DQ, UK Emergency phone: +44 1892 833 415 (09:00 – 17:30 Mon- Thurs; 09:00 – 16:30 Fri, UK time) Email: intray@botanix.co.uk
	Barth-Haas Group / John I. Haas, Inc. 5185 MacArthur Boulevard, N.W., Suite 300, Washington DC, 20016 USA. Emergency phone: +1 202 777 4800 (office hours) Email: info@johnihaas.com
	Barth-Haas-Group/NATECO2 GmbH & Co. KG Address: Auenstr. 18-20, 85283 Wolnzach, Germany Emergency phone: +49 8442 660 (office hours) Email: contact@nateco2.de
2. Hazards Identification	on
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 an extract of hops for use as an ingredient for the brewing of beer. 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 a mixture of bitter and aroma substances, extracted from the dried cones of the cultivated hop plant *Humulus lupulus*; many different hop varieties and extract standardizations/formulations exist; this MSDS applies equally to all varieties. It is possible that extract contains the standardization agents glucose or hot water extract obtained from the initial hops.

Hop Extract, CAS: 8060-28-4

EINECS N°. 232-504-3

4. First Aid Measures	
4.1 Description of First Aid Methods:	Inhalation: Move to fresh air. Skin Contact: Wash skin thoroughly with soap and water. Eye Contact: Flood the eye with plenty of water. If any symptoms persist obtain medical attention. Oral Ingestion: 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 Indication of Immediate Medical Attention or Special Treatment:	None known.
5. Fire-Fighting Measu	ıres
5.1 Extinguishing media:	Carbon dioxide, dry powder and foam.
5.2 Special Hazards Arising from Substance:	Contains 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.



	FOR YOUR SUCCESS
7. Handling and Storag	ge
7.1 Precautions for	Avoid excessive contact with product. Use appropriate
Safe Handling:	protective clothing as indicated in Section 8. Wash hands
	after use.
7.2 Conditions for	Store at 0 – 5 °C (32 – 41 °F). Suitable storage is high grade
Safe Storage:	stainless steel, 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	Not applicable.
Parameters:	
8.2 Exposure	Engineering Controls: Provide adequate ventilation.
Controls:	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 Chemi	
Appearance:	Viscous liquid, yellow/orange to brown/green
Odour:	Characteristic, typical hoppy, resinous aroma
Odour Threshold:	No data available
pH:	No data available
Melting Point:	40 – 60 °C (104 – 140 °F), depending on variety
Boiling Point:	No data available
Flash Point:	No data available
Evaporation Rate:	No data available
Flammability:	No data available
Upper/Lower	No data available
Flammability:	
Vapour Pressure:	No data available
Vapour Density:	No data available
Density:	850 – 1100 kg.m ⁻³
Solubility in Water:	Insoluble; forms an emulsion
Partition Coefficient:	No data available
Autoignition	No data available
Temperature:	
Decomposition	No data available
Temperature:	
Viscosity at 20 °C:	No data available
Explosive properties:	No data available
Oxidising properties:	No data available



10. Stability and Reactivity 10.1 Reactivity: No reactivity hazards known	
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10.2 Chemical Stable if stored in accordance with 7.2 Stability:	
10.3 Possibility of None known	
Hazardous	
Reactions:	
10.4 Conditions to Keep container closed when not in use	
Avoid:	
10.5 Incompatible None known	
Materials:	
10.6 Hazardous None known	
Decomposition	
Products:	
11. Toxicological Information	
11.1 Acute Toxicity: No data available. Hops and hop extracts are gen	erally
recognized as safe (GRAS) for their intended us	e in
accordance with US FDA regulation, 21 CFR 182.20. No	TLVs
established.	
11.2 Skin No data available	
Corrosion/Irritation:	
11.3 Serious Eye No data available	
Damage/Irritation:	
11.4 Respiratory or No data available	
Skin Sensitisation:	
11.5 Germ Cell No data available	
Mutagenicity:	
11.6 Carcinogenicity: No data available	
11.7 Reproductive No data available	
Toxicity:	
11.8 STOT-Single No data available	
Exposure:	
11.9 STOT-Repeated No data available	
Exposure:	
11.10 Aspiration No data available	
Hazard:	
12. Ecological Information	
12.1 Toxicity: No data available	
12.2 Persistence and No data available	
Degradability:	
12.3 Bioaccumulative No data available	
Potential	
12.4 Mobility in Soil: No data available	
12.5 Results of PBT No data available	
and vPvB	
Assessment:	
12.6 Other Adverse No data available	
Effects:	



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 or disposed of by landfill or incineration as appropriate.	
14. Transport Informat	tion	
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 Assessment:	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.

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