









A HAAS BarthHaas'



# Safety Data Sheet

# 1. IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY

1.1 Product Identifier **Spectrum** 

1.2 Synonyms

1.3 Relevant Uses For use as an ingredient in foods

1.4 Supplier BarthHaas / BarthHaas UK Ltd.

1.5 Emergency Contact

**Details** 

BarthHaas / BarthHaas UK 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: enquiries@barthhaas.co.uk







# 2. HAZARD INDENTIFCATION

#### 2.1 Classification

Classification according to Regulation (EC) No 1272/2008 [CLP]:

- Skin Irritation Category 2
- Eye Irritation Category 2
- Skin Sensitisation Category 1

#### 2.2 Label Elements

According to Regulation (EC) 1272/2008 [CLP]:

- Hazard Pictogram



- Signal Word: Warning
- Hazard Statemenet
- H315: Causes skin irritation
- H317: May cause an allergic skin reaction
- H319: Causes serious eye irritation
- Precautionary Statement
- P280: Wear protective gloves and eye protection
- P302+P352: IF ON SKIN: Wash with plenty of soap and water
- P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
  - Continue rinsing.
- P333+P313: If skin irritation or rash occurs: Get medical advice/attention.

#### 2.3 Other Hazards

None





# 3. COMPONENTS/INFORMATION ON INGREDIENTS

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

# 4. FIRST AID MEASURES

4.1 Description of First

Aid Methods:

Move to fresh air.

**Inhalation** 

Wash skin thoroughly with soap and water

**Skin Contact** 

Flood the eye with plenty of water. Obtain medical attention if

irritation persists.

**Eye Contact** 

**Oral Ingestion** 

Rinse mouth out with water and drink a portion of water (ca. 200 ml). Vomiting may occur but should not be induced Consult a

physician if any symptoms persist.

4.2 Most important symptoms and Effects

Skin and eye irritation

4.3 Indications of **Immediate Medical**  Action as indicated in Section 4.1 above

### **5 FIRE AID MEASURES**

**5.1 Extinguishing Media** Carbon dioxide, dry powder, foam.

5.2 Special Hazards

Contains hop oil. Hop oil is combustible and may give rise to hazardous

**Arising from Substance** 

fumes in a fire

5.3 Advice for

Wear self-contained breathing apparatus

**Firefighters** 





# 6. ACCDIENTAL RELEASE MEASURES

**6.1 Personal Protection** Wear appropriate protective clothing – see Section 8.

**6.2 Environmental** Avoid sub-soil penetration. Prevent entry to sewers and public waters.

**Precautions** Do not discharge onto the ground or into watercourses

**6.3 Methods for** Contain spillage using earth, sand or other inert material.

**Cleaning Up** 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** Use appropriate protective clothing as indicated in Section 8. Wash hands

**Handling** after use

**7.2 Conditions for Safe** Store at 2 – 15 °C. Suitable storage is high grade stainless steel, glass, high-

**Storage** density polyethylene and high phenolic lacquered mild steel

**7.3 Specific End Uses** For use as a food ingredient. It should be used in accordance with applicable

legislation.

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**8.1 Control Parameters** Not applicable.

**8.2 Exposure Controls:** 

**Engineering** - Provide adequate ventilation.

**Controls** - Chemical goggles must be worn during handling.

**Eye/Face**- PVC, rubber or nitrile gloves

**Hand Protection** - If danger of splashing, wear PVC or rubber apron

**Skin Protection** - Not normally required

Respiratory Protection



# 9. PHYSICAL AND CHEMICAL PROPERTIES

a) Physical state Thick liquid

**b) Color** Brown

c) Odor Hoppy, resinous

**d) Melting** Not practical to measure

point/Freezing point

**e) Boiling point** Not practical to measure

f) Flammability Not flammable

**g) Lower and upper** Not practical to measure

**h) Flash point** ca. 80 °C (176 °F) or above, depending on variety

i) Auto-ignition Not practical to measure

temperature

temperature

explosion limit

**j) Decomposition** No hazardous decomposition when used for its intended use.

k) pH Not practical to measure

**1) Kinematic viscosity** Approx. 5000 cP

**m) Solubility** Readily dispersible

**n) Partition coefficient** Not practical to measure

n-octanol/water (log

value)

**o) Vapor pressure** Not practical to measure





**p) Density [kg/m³]** 1.110 – 1.300

q) Relative vapor

density

Not practical to measure

r) Particle

Not practical to measure

characteristics

# 10. STABILITY AND REACTIVITY

**10.1 Reactivity** No reactivity hazards known.

**10.2 Chemical Stability** Stable if stored according to Section 7.2 and 10.5

10.3 Possibility of

**Hazardous Reaction** 

None known

10.4 Conditions to

Avoid

Keep container closed when not in use; avoid high temperatures.

10.5 Incompatible

**Materials** 

None known

**10.6 Hazardous** None known

**Decomposition Products** 





# 11. TOXICOLOGICAL INFORMATION

Hop extracts have a long history of safe use as a beer ingredient.

11.1 Acute Toxicity Typical hop extracts are not classified as hazardous. Estimated ATE values

(oral, dermal) are > 2000 mg/kg bw.

11.2 Skin Skin irritation Category 2.

Corrosion/Irritation

11.3 Serious Eye Eye irritation Category 2.

Damage/Irritation

11.4 Respiratory or Skin

Sensitization

Toxicity

Skin Sensitization Category 1.

11.5 Germ Cell OECD Guideline 471 (Bacterial Reverse Mutation Assay) not mutagenic.

Mutagenicity Bacterial Reverse Mutation Assay on 40 % beta-acids: not mutagenic.

11.6 Carcinogenicity Hop extracts have a long history of safe use as a component of beer. Bacterial

reverse mutation assay: not mutagenic.

11.7 Reproductive Weight of evidence indicates lack of reproductive toxicity. Long history of

safe use as a component of beer. Hop extracts are generally recognized as

safe (GRAS) in accordance with US FDA regulation 21 CFR 182.20.

Weight of evidence indicates safety when used for its intended use. 11.8 STOT- Single

**Exposure** See (11.7) above.

11.9 STOT-Repeated Weight of evidence indicates safety when used for its intended use.

**Exposure** See (11.7) above.

11.10 Aspiration Hazard Not hazardous

# 12. ECOLOGICAL INFORMATION

Toxicity to fish: Carassius auratus (goldfish) - Etude pharmacologique de 12.1 Ecotoxicity

l'action du lupulin et de la fleur d'organer sur le poisson. Pharmaceutica acta







*Helvetiae* (1953) **28**(7-8), pp.183-206: lowest dose causing adverse effects estimated by calculation as ca. 80 mg/l. Toxicity to Daphnia and other aquatic invertebrates:

EC50 - Daphnia magna (Water flea) - >5.8 mg/l - 48 h. NOEC

- Daphnia magna - ca. 2.2 mg/l - 48 h.

Toxicity to freshwater algae:

EC50 - 42.7 mg/l - 48 h. NOEC - 12.5 mg/l - 72 h.

12.2 Persistence and Degradability

Hop extract: Ultimate biodegradation (natural product).

12.3 Bioaccumulative Potential

Hop extract: Natural product, not expected to bioaccumulate.

12.4 Mobility in Soil

Hop extract: Log Koc 1.7 - <4.5 (modelling by EPISuite™)

Other information:

low hazardous to water. Water contaminant class 1 (self assessment)

according

to VwVwS from May 17th 1999 appendix 3. Do not discharge onto the

ground or into watercourses.

12.5 Results of PBT Exposure:

This substance/mixture contains no components considered to be either

persistent, bioaccumulative and toxic (PBT), or very persistent and very

bioaccumulative (vPvB) at levels of 0.1% or higher.

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** Non-hazardous for transport

**Class** 

**14.4 Packing Group** Non-hazardous for transport

**14.5 Marine pollutant:** Not data available

# 15. REGULATORY INFORMATION

**15.1 Safety, Health, and** Germany: Water contaminant class 1 (self assessment) according to VwVwS

Environmental from May 17th 1999 appendix 3. Do not discharge onto the ground or into

**Regulations** watercourses.

**15.2 Chemical Safety** N/A when used for food applications

Assessments





# 16. OTHER INFORMATION

- (a) Key literature references and sources for data:
  - REACH registration dossier for EC 232-504-3
- (b) Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:
  - Skin Irritation Category 2: in vitro test data for REACH registration dossier for EC 232-504-3
  - Eye Irritation Category 2: in vitro test data for REACH registration dossier for EC 232-504-3
  - Skin Sensitisation Category 1: in vitro test data for REACH registration dossier for EC 232-504-3

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.