

Safety Data Sheet

Trade Name: Hop Oil

Printing date: 18/06/2013

Revision: 01.01.2013

1 Product and Supplier Information

Product details:

Trade name: Hop Oil

Application of the substance / the preparation: Food additive

Supplier/Manufacturer:
Phytos Natur CZ s.r.o.
Okrouhelská 258, 252 45 Oleško
+420777753774, +420777753743

2 Hazards identification

Hazard description: Xn Harmful

Information pertaining to particular dangers for man and environment:

R36/38 Irritation to eyes and skin

R 65 Harmful: may cause lung damage if swallowed

Classification system:

The classification was made according to the latest editions of the EU-lists, and expanded using company data and specialized literature.

3 Composition / Data on components

Chemical characterization

CAS No. Description: 8007-04-3 hop oil

Identification number(s):

Additional Information

Main essential oils: Myrcene, Humulene, Linalool in variable concentrations

4 First aid measures

General information: If symptoms persist or in case of doubt seek medical advice.

After inhalation: Inhalation of product is unlikely.

After skin contact: Clean effected skin thoroughly with water and a mild cleansing agent. No residues shall remain on the skin.

After eye contact: Rinse the eyes with open eyelids for 10 – 15 minutes with water. Then consult a doctor or better an eye specialist.

After swallowing: Rinse out mouth and then drink plenty of water. If symptoms occur or after swallowing of larger quantities consult a doctor.

Information for doctor:

The following symptoms may occur: Local irritation symptoms

Safety Data Sheet

Trade Name:**Hop Oil**

Printing date: 18/06/2013

Revision: 01.01.2013

Danger: If swallowed or in case of vomiting, danger of entering the lungs
Treatment: Symptomatic treatment

5 Fire fighting measures

Suitable extinguishing agents:

CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. Use fire fighting measures that suit the environment.

For safety reasons unsuitable extinguishing agents: Direct jet water

Special hazards caused by the material, its products of combustion or resulting gases:

Dangerous decomposition product see chapter 10: stability and reactivity

Protective equipment: Wear self-contained respiratory protective device.

Additional information: Dispose of fire debris and contaminated fire fighting water in accordance with official regulations. Collect contaminated fire fighting water separately. It must not enter the sewage system.

6 Accidental release measures

Person-related safety precautions:

Wear protective clothing. Avoid contact with eyes and skin.

Measures for environmental protection:

Do not allow product to reach sewage system or any water course. Do not allow to penetrate the ground/soil.

Measures for cleaning/collecting:

Small quantities: if spilled/leaked : absorb main quantity with cloth.

Large quantities: absorb with non-combustible material like sand, soil, or diatomite. Clean the affected area carefully; suitable cleaners are: warm water and cleansing agent.

7 Handling and storage

Handling**Information for safe handling:**

Avoid contact with eyes and skin

Information about protection against explosions and fires:

Keep ignition sources away – Do not smoke.

Storage**Requirements to be met by storerooms and receptacles:**

Store only in unopened original receptacles. Store cool and dry.

Information about storage in one common storage facility:

Keep ignition sources away – combustible liquid.

Further information about storage conditions:

Protect from contamination

Maximum storage temperature: 10° C

Minimum storage temperature: 3° C

Storage time: up to 1 year when stored correctly

Storage class: 10 Combustible Liquids

Safety Data Sheet**Trade Name:****Hop Oil**

Printing date: 18/06/2013

Revision: 01.01.2013

8 Exposure controls and personal protection**Additional information about design of technical systems:**

No further data; see item 7.

Components with limit values that require monitoring at the workplace:

Not required.

Additional information: The lists that were valid during the creation were used as basis.**Personal protective equipment****General protective and hygienic measures:**

The usual precautionary measures should be adhered to when handling chemicals.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

To avoid bacterial contamination it is recommended to use gloves and mask.

Breathing equipment: Not necessary if room is well-ventilated.**Protection of hands:** Protective gloves. After use of gloves apply skin-cleaning agents and skin cosmetics. The glove material has to be impermeable and resistant to the product / the substance / the preparation.. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.**Material of gloves:** PVC/Rubber. The choice is based on practical experience. The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.**Penetration time of glove material:** The exact break-through time is unknown.**Eye protection:** Safety glasses**Body protection:** Protective work clothing.**9 Physical and chemical properties****General Information**

Form: viscous liquid
Colour: Clear, Yellowish
Odour: Characteristic

Value/Range Unit Method**Change in condition:****Melting point/Melting range:** undetermined**Boiling point/Boiling range:** > 71° C**Flash point:** > 60° C**Self igniting:** Product is not self-igniting.**Danger of explosion:** Product does not present an explosion hazard**Density:** at 20° C ~0.8 g/ml**Solubility in / Miscibility with Water:** Insoluble**Additional information:** Soluble in ethanol**10 Stability and reactivity**

Safety Data Sheet

Trade Name:**Hop Oil**

Printing date: 18/06/2013

Revision: 01.01.2013

Thermal decomposition / conditions to be avoided:

No decomposition if used and stored according to specifications.

Dangerous reactions: Oxidants.**Dangerous products of decomposition:**

In the case of fire or at high temperatures the formation of the following decomposition products is possible: Carbon monoxide and carbon dioxide.

11 Toxicological information

Acute toxicity:**LD/LC50 values that are relevant for classification:**

No toxicity data are available for the product itself.

Primary irritant effect:**on the skin:** Not determined.**on the eye:** Not determined.**Sensitization:** No sensitizing effects known.**Additional toxicological information:**

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

12 Ecological information

Ecotoxicological effects:**Aquatic toxicity:**

Presently there are no ecotoxicological values available.

General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water. According to appendix 4 of VwVwS dated 17.05.1999 (German regulation): Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system. Danger to drinking water is possible if large quantities leak into the ground or into water course.

13 Disposal considerations

Product:**Recommendation:** Disposal according to instructions of local authorities.**Uncleaned packagings:****Recommendation:** Disposal must be made according to official regulations.

Safety Data Sheet

Trade Name:**Hop Oil**

Printing date: 18/06/2013

Revision: 01.01.2013

14 Transport information

Land transport**ADR/RID class (cross-border):**

Not a hazardous good according to the regulation

Domestic (D.O.T.):

Not a hazardous good according to the regulation

Maritime transport**IMDG class:**

Not a hazardous good according to the regulation

Marine Pollutant:

Not a hazardous good according to the regulation

Air transport**ICAO/IATA class:**

Not a hazardous good according to the regulation

15 Regulations

Markings according to EC guidelines:

Observe the general safety regulations when handling chemicals. The product has been classified and Marked in accordance with EU Directives/Ordinance on Hazardous Materials

Code letter and hazard designation of product: Xn Harmful**Risk phrases:**

R 36/38 Irritation to eyes and skin

R 65 Harmful: may cause lung damage if swallowed

Safety phrases:

S 24/25 Avoid contact with skin and eyes

S 36 Wear suitable protective clothing.

S 62 If swallowed do not induce vomiting; seek medical advice immediately and show this container or label.

National regulations:**Water hazard class:**

Water hazard class 1 (Self-assessment): slightly hazardous for water.

16 Other information:

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.