

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date: 25.10.2016

Version: 3.00

Revision: 25.10.2016

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier**Trade name: Isomerized Hop Extract 30 % (Iso-Extract)****Substance name:** Hop, Humulus lupulus, ext**CAS Number:**

8060-28-4

EINECS Number: 232-504-3**1.2 Relevant identified uses of the substance or mixture and uses advised against:** No further relevant information available.**Application of the substance / the preparation:** Manufacturing of food**1.3 Details of the supplier of the safety data sheet****Supplier/Manufacturer:**

Simon H. Steiner

Hopfen GmbH

Auhofstr. 18

84048 Mainburg

Germany

Tel.: +49-8751-8605-0

Fax: +49-8751-8605-80

Email competent person: sds@kft.de**Information department:** see above**1.4 Emergency telephone number:**

Simon H. Steiner, Hopfen, GmbH, Mainburg, Germany

Tel.: +49-8751-8605-0 (Monday – Friday 08:00 – 17:00)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture**Classification according to Regulation (EC) No 1272/2008** The substance is not classified according to the CLP regulation.**Additional information:**

For this substance/mixture no safety data sheet needs to be generated according to Article 31(1) of Regulation (EC) No 1907/2006. The here presented safety data sheet may therefore not fulfil all requirements of Annex II of this regulation.

2.2 Label elements**Labelling according to Regulation (EC) No 1272/2008** Void**Hazard pictograms** Void**Signal word** Void**Hazard statements** Void**2.3 Other hazards****Results of PBT and vPvB assessment****PBT:** Not applicable**vPvB:** Not applicable

SECTION 3: Composition/information on ingredients

3.1 Chemical characterisation: Substances Manufacturing of food**CAS No. Description:**

8060-28-4 Hop, Humulus lupulus, ext

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(Contd. of page 1)

* SECTION 4: First aid measures

- **4.1 Description of first aid measures**
 - **General information:** If symptoms persist or in case of doubt, seek medical advice.
 - **After inhalation:** In case of complaints which may be caused by vapours supply fresh air and call a doctor.
 - **After skin contact:** Wash with water and soap.
 - **After eye contact:**
Rinse opened eye for several minutes under running water.
If symptoms persist, consult a doctor.
 - **After swallowing:** Rinse out mouth and then drink plenty of water.
 - **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.
 - **4.3 Indication of any immediate medical attention and special treatment needed** Symptomatic treatment
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* SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
 - **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:** High volume water jet
 - **5.2 Special hazards arising from the substance or mixture**
In case of fire, the following can be released:
Carbon monoxide (CO)
Carbon dioxide (CO₂)
 - **5.3 Advice for firefighters**
 - **Protective equipment:** Wear self-contained respiratory protective device.
 - **Additional information:**
Collect contaminated fire fighting water separately. It must not enter the sewage system.
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.
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* SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
Ensure adequate ventilation.
Do not smoke - keep ignition sources away
Avoid contact with eyes and skin.
 - **6.2 Environmental precautions:**
Do not allow product to reach sewage system or any water course.
Do not allow to penetrate the ground/soil.
 - **6.3 Methods and material for containment and cleaning up:**
Absorb with non-combustible material like sand, soil or diatomite.
Small quantities:
If spilled/leaked: absorb main quantity with cloth.
Make sure to recycle or dispose of in suitable receptacles.
 - **6.4 Reference to other sections**
See Section 7 for information on safe handling
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.
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* SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**
Ensure good ventilation/exhaustion at the workplace.
Avoid ingestion and inhalation.
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(Contd. on page 3)

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Revision: 25.10.2016

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(Contd. of page 2)

Keep away from heat and direct sunlight.
Avoid contact with eyes and skin.

- **Information about protection against explosions and fires:**
Vapours may form explosive mixtures with air.



Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.
Observe the national regulations for storage of flammable liquids.
Observe the general rules of industrial fire protection.

- **7.2 Conditions for safe storage, including any incompatibilities**

- **Storage:**

- **Requirements to be met by storerooms and receptacles:** Store in well-ventilated area.
- **Information about storage in one common storage facility:** Refer to national regulations for storing hazardous chemicals.
- **Further information about storage conditions:**

Store opened containers under cool and dry conditions. Use as soon as possible.

Keep receptacle tightly sealed.

Protect from contamination.

Protect from frost.

- **Maximum storage temperature:** 15 °C

- **Minimum storage temperature:** 5 °C

- **Storage class:** 10 Combustible liquids

- **7.3 Specific end use(s)** No further relevant information available
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* SECTION 8: Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see section 7.

- **8.1 Control parameters**

- **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.

- **8.2 Exposure controls**

- **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 eyes and skin.

After skin contact, cleanse skin thoroughly.

- **Breathing equipment:** Not necessary if room is well-ventilated

- **Protection of hands:**

Chemical resistant gloves (EN 374)

The glove material has to be impermeable and resistant to the product/substance/preparation.

Selection of the glove material in consideration of the penetration times, rates of diffusion and the degradation

- **Material of gloves:**

Rubber

The choice is based on practical experience. The exact break-through time is unknown.

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 penetration time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye protection:** Safety glasses with side shields

(Contd. on page 4)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date: 25.10.2016

Version: 3.00

Revision: 25.10.2016

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(Contd. of page 3)

- **Body protection:** Protective work clothing

* SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties	
· General Information:	
· Appearance:	
Form:	Liquid
Colour:	Yellow
	Light amber
	Clear
· Odour:	Characteristic
· Odour threshold:	Not determined
· pH-value at 20 °C:	9.0 (± 1)
· Change in condition:	
Melting point/Melting range:	Not determined
Boiling point/Boiling range:	Not determined
· Flash point:	ca. 97 °C
· Ignition temperature:	
Decomposition temperature:	Not determined
· Self ignition temperature:	Product is not self-igniting.
· Danger of explosion:	Product is not explosive. However, formation of explosive air/vapour mixtures is possible.
· Explosion limits:	
Lower:	Not applicable
Upper:	Not applicable
· Vapour pressure:	Not determined
· Density at 20 °C:	1.07 g/ml (± 0.005)
· Relative density:	Not determined
· Vapour density:	Not determined
· Evaporation rate:	Not determined
· Solubility in / Miscibility with	
Water:	Miscible precipitate if acidified
· Partition coefficient (n-octanol/water): Not determined	
· Viscosity:	
dynamic:	Not determined
kinematic:	Not determined
· 9.2 Other information	Miscible with alcohol

SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used and stored according to specifications
- **10.3 Possibility of hazardous reactions** No dangerous reactions known
- **10.4 Conditions to avoid** No further relevant information available
- **10.5 Incompatible materials:** Acids

(Contd. on page 5)

— GB —

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Trade name: Isomerized Hop Extract 30 % (Iso-Extract)

(Contd. of page 4)

- **10.6 Hazardous decomposition products:**

No hazardous decomposition products if instructions for storage and handling are followed

* SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**

- **Acute toxicity** Based on available data, the classification criteria are not met.
 - **LD/LC50 values that are relevant for classification:** No toxicity data are available for the product itself.
 - **Primary irritant effect:**
 - **Skin corrosion/irritation** Prolonged exposition may cause skin irritation.
 - **Serious eye damage/irritation** May cause irritation to the eyes.
 - **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
 - **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction):**
 - **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
 - **Carcinogenicity** Based on available data, the classification criteria are not met.
 - **Reproductive toxicity** Based on available data, the classification criteria are not met.
 - **STOT-single exposure** Based on available data, the classification criteria are not met.
 - **STOT-repeated exposure** Based on available data, the classification criteria are not met.
 - **Aspiration hazard** Based on available data, the classification criteria are not met.
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* SECTION 12: Ecological information

- **12.1 Toxicity**

- **Aquatic toxicity:** Presently there are no ecotoxicological values available.
 - **12.2 Persistence and degradability** No further relevant information available
 - **12.3 Bioaccumulative potential** No further relevant information available
 - **12.4 Mobility in soil** No further relevant information available
 - **Additional ecological information:**
 - **General notes:**
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous to water
Classification according to German VwVwS dt. 17.05.1999 appendix 3
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.
Ident number.: 6390
 - **12.5 Results of PBT and vPvB assessment**
 - **PBT:** Not applicable
 - **vPvB:** Not applicable
 - **12.6 Other adverse effects** No further relevant information available
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* SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**

- **Recommendation:**

Must be recycled or disposed of according to the regulations. Waste has to be classified according to the European Waste Catalogue based on the identification of the waste generating source.

Disposal according to instructions of local authorities

- **European waste catalogue:**

02 00 00 WASTES FROM AGRICULTURE, HORTICULTURE, AQUACULTURE, FORESTRY, HUNTING AND FISHING, FOOD PREPARATION AND PROCESSING

02 03 00 wastes from fruit, vegetables, cereals, edible oils, cocoa, coffee, tea and tobacco preparation and processing; conserve production; yeast and yeast extract production, molasses preparation and fermentation

02 03 99 wastes not otherwise specified

(Contd. on page 6)

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(Contd. of page 5)

- **Uncleaned packagings:**
 - **Recommendation:** Disposal must be made according to official regulations.
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* SECTION 14: Transport information

· 14.1 UN-Number · ADR, ADN, IMDG, IATA	Void
· 14.2 UN proper shipping name · ADR, ADN, IMDG, IATA	Void
· 14.3 Transport hazard class(es) · ADR, ADN, IMDG, IATA · Class	Void
· 14.4 Packing group · ADR, IMDG, IATA	Void
· 14.5 Environmental hazards: · Marine pollutant:	No
· 14.6 Special precautions for user	Not applicable
· 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable
· Transport/Additional information:	Not dangerous according to the above regulations
· UN "Model Regulation":	Void

* SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
 - **National regulations**
 - **Water hazard class:**
Water hazard class 1 (Self-assessment): slightly hazardous for water
Ident number.: 6390
 - **Further information:**
For this substance/mixture no safety data sheet needs to be generated according to Article 31(1) of Regulation (EC) No 1907/2006. The here presented safety data sheet may therefore not fulfil all requirements of Annex II of this regulation.
 - **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.
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* SECTION 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.

- **Reasons for amendments:**
Change of trade name
Classification
Data on components
General revision
- **Replaces version dated:** 19.01.2015
- **Department issuing SDS:**
KFT Chemieservice GmbH
Im Leuschnerpark. 3 64347 Griesheim
Postfach 1451 64345 Griesheim

(Contd. on page 7)

Safety data sheet

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(Contd. of page 6)

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• **Contact:** Dr. Daniel Ries• **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

CAS: Chemical Abstracts Service (division of the American Chemical Society)

MAL-Code: Måleteknisk Arbejdshygiejnisk Luftbehov (Regulation for the labeling concerning inhalation hazards, Denmark)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

• **Sources:**

Information provided by the manufacturer

ECHA - European Chemicals Agency

• *** Data compared to the previous version altered.**

Changes have been made to sections marked with a *, as compared to the previous version.

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