

Safety Data Sheet

Per OSHA Instruction CPL 2-2.039 (1986)

Trade Name: Hexa Iso Extract

Printing date: 18/06/2013

Revision: 07.07.2011

1 Product and Supplier Information

Product details:**Trade name:** Hexa Iso Extract, Hexa
Application of the substance / the preparation: Food additive**Supplier/Manufacturer:**

S. S. Steiner, Inc.
1 W Washington Avenue
Yakima, WA 98903
USA
Tel.: +1-509-453-4731
Fax: +1-509-457-4638
e-mail: kmadsen@hopsteiner.com

Simon H. Steiner, Hopfen GmbH
Auhofstr. 18
84048 Mainburg
Germany
+49-8751-8605-0
+49-8751-8605-80
aschmid@hopsteiner.de

Steiner Hops Ltd.
319A High Street
Epping, Essex CM16 4DA
United Kingdom
+44-1992-572331
+44-1992-573780
trevor.roberts@hopsteiner.co.uk

Information department: see above
Emergency information: National Poison Control Center Telephone: 1-800-222-1222

2 Hazards identification

Hazard description: Xi - Irritant**Information pertaining to particular dangers for man and environment:**

R 36/38 Irritation to eyes and skin

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**Description:**Aqueous solution of the potassium salts of hexahydro-iso-alpha-acids produced from the CO₂ hop extract.**Dangerous components:** Void

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:****Treatment:** Symptomatic treatment

MSDS 13/01 issued 08/2009

Safety Data Sheet

Per OSHA Instruction CPL 2-2.039 (1986)

Trade Name: Hexa Iso Extract

Printing date: 18/06/2013

Revision: 07.07.2011

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.

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:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Clean the affected area carefully; suitable cleaners are: warm water and cleansing agent. Send for recovery or disposal in suitable receptacles.

7 Handling and storage

Handling

Information for safe handling:

Avoid contact with eyes and skin

Information about protection against explosions and fires:

No special measures required

Storage

Requirements to be met by storerooms and receptacles:

Store at ambient temperature.

Information about storage in one common storage facility:

Not required.

Further information about storage conditions:

Keep receptacle tightly sealed. Store opened containers at cool and dry conditions, use as soon as possible. Protect from contamination, frost, heat and direct sunlight.

Maximum storage temperature: 15° C

Minimum storage temperature: 10° C

Storage time: Up to 1 year when stored correctly

Storage class: 10 Combustible liquids

MSDS 13/01 issued 08/2009

Safety Data Sheet

Per OSHA Instruction CPL 2-2.039 (1986)

Trade Name: Hexa Iso Extract

Printing date: 18/06/2013

Revision: 07.07.2011

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:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

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. Due to missing tests no recommendation to the glove material can be given for the product / the preparation / the chemical mixture. Selection of the glove material on 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 break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection:

Safety glasses

Body protection:

Protective work clothing.

9 Physical and chemical properties

General Information

Form: Fluid
Colour: Yellow to amber, clear
Odour: Characteristic

Value/Range Unit Method

Change in condition:

Melting point/Melting range:

undetermined

Boiling point/Boiling range:

undetermined

Flash point:

not applicable

Self igniting:

Product is not self-igniting.

Danger of explosion:

Product does not present an explosion hazard.

Density:

at 20° C 1.017 g / ml (± 0.005)

MSDS 13/01 issued 08/2009

Safety Data Sheet

Per OSHA Instruction CPL 2-2.039 (1986)

Trade Name: Hexa Iso Extract

Printing date: 18/06/2013

Revision: 07.07.2011

Solubility in / Miscibility with Water: miscible (will precipitate if acidified)
pH-value: at 20° C 10.5 (± 1.0)
Additional information: miscible with alcohol

10 Stability and reactivity

Thermal decomposition / conditions to be avoided:

No decomposition if used and stored according to specifications. Conditions to be avoided: see chapter 7

Materials to be avoided: Acids

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: Continuing or repeated contact with the skin may cause skin disease.
on the eye: Irritating effect.
Sensitization: No sensitizing effects known.

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 3 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.

European waste catalogue: 02 03 99: wastes not otherwise specified

Uncleaned packagings:

Recommendation: Disposal must be made according to official regulations.

MSDS 13/01 issued 08/2009

Safety Data Sheet

Per OSHA Instruction CPL 2-2.039 (1986)

Trade Name: Hexa Iso Extract

Printing date: 18/06/2013

Revision: 07.07.2011

14 Transport information

Land:

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.

Water:

IMDG Class: Not a hazardous good according to the regulation.
Marine pollutant: Not a hazardous good according to the regulation.

Air:

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 is not subject to identification regulations under EC Directives and the Ordinance on Hazardous Materials (GefStoffV). Although this product is not subject to identification regulations, we recommend to observe the safety suggestions.

Code letter and hazard designation of product: Xi Irritant

Risk phrases: R 36/38 Irritation to eyes and skin

Safety phrases: S 24/25 Avoid contact with skin and eyes.
S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

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.

Department issuing SDS:

Kevin K. Madsen
Technical Services Manager
1 West Washington
Yakima, WA 98903
USA
Tel.: 509-453-4731
Fax: 509-457-4638
e-mail: kmadsen@hopsteiner.com

MSDS 13/01 issued 08/2009