Trade name: HVG Leaf (BALE) Hops

Product Code: Leaf Hops packed (customs tariff code 1210 10)

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HVG LEAF (BALE) HOPS

MATERIAL SAFETY DATA SHEET

(according to the EEC/ISO standards)

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1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND COMPANY

Name of the material or preparation:

Product code: Baled Raw Hops, Leaf Hops, Hop Cones,

Customs tariff code: 1210 10

Product name / commercial name: HVG-Leaf Hops, HVG-Bale Hops, HVG-VacuPack

Details on manufacturer:

Name: HVG Hopfenverwertungsgenossenschaft e.G. Address: Kellerstr. 1, 85283 Wolnzach (Germany)

Telephone: +49-8442/957-100 Telefax: +49-8442/957-169

e-mail: contact@hvg-germany.de

Details on supplier:

Name: HVG Hopfenverwertungsgenossenschaft e.G. Address: Kellerstr. 1, 85283 Wolnzach (Germany)

Telephone: +49-8442/957-100 Telefax: +49-8442/957-169

e-mail: contact@hvg-germany.de

Date of preparation of MSDS: 1999-03-12
Date of revision of MSDS: 2021-03-16

2. **COMPOSITION / INFORMATION ON INGREDIENTS**

Chemical characterisation

Dried cones of the hop plant, pressed into a bale. No further processing. This MSDS applies to all existing hop varieties

Typical characterisation of Pellets

Description	Unit	Value
α-acids (resins)	% w/w*	2 – 22
β – acids (resins)	% w/w*	1 – 10
Essential oils	ml/ 100 g*	up to 4
Polyphenols and tannins	% w/w*	3 – 6
Proteins	% w/w*	up to 15
Cellulose-lingins	% w/w*	20 – 50
Moisture	% w/w*	8 – 12

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3. HAZARD IDENTIFICATION

No health hazards, non-toxic in normal use

4. FIRST AID MEASURES

General information:

In normal use no health hazards known. Hops can generally be recommended as safe (GRAS). In some cases, the product may be a mild irritant if it gets in contact with eyes, respiratory tract or mucous membranes.

Inhalation: Not applicable

• Skin contact: Wash contacted area with warm soapy water.

Eye contact: May be irritating. Wash affected eye with plenty of pure water. Seek medical

attention if irritation persists.

Oral ingestion: It is an extremely bitter substance Spit out and rinse with plenty of water

Instructions for physician: Not applicable

5. FIRE FIGHTING MEASURES

Packing: Foil and wooden pallets are flammable. Extinguishing media foam, water or CO2

Product: No known unusual fire and explosion hazards

6. ACCIDENTAL RELEASE MEASURES

Normal clean-up procedures with hot water and usual household cleaning agents

7. HANDLING AND STORAGE

Handling: No special requirements

Storage (durability):
No special precautions necessary

Storage class: 11 Combustible solids

Out of quality reasons Hops should be used as soon as possible after opening the packaging.

Recommended storing conditions:

Temperature	Stability
At 10 – 15 °C (50 – 59 °F)	up to 2 years (in unopened, original packages)
At 0 – 5 °C (32 – 41 °F)	up to 5 years (in unopened, original packages)

To guarantee quality avoid heat, moisture, strong odours during storage. Hops should not be exposed to temperatures above 20°C. If foil suffers damage, the foil will lose vacuum conditions. Consequently, the hops are exposed to air and oxidation hop compounds take place resulting in a considerable deterioration of brewing quality.

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8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

- Additional information on construction of technical installations: not applicable
- Components important for workshop security (limits to be controlled): not applicable
- Personal protective equipment: If dust is generated a dust mask is advisable

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form: leaf hops, cone shaped flowers of the hops plant

Colour: various shades of green

Odour: typical hoppy

Safety data

pH: not applicable

Change of state: not applicable

Flash point: not applicable
Flammability: not applicable
Ignition temperature: not applicable
Spontaneous ignition: not applicable

Explosion limits:

min: not applicable
max: not applicable
Vapor pressure: not applicable
Density: 0.1 – 0.3 kg/l
Solubility: not applicable

10. STABILITY AND REACTIVITY

Hop constituents oxidise in contact with air, no hazardous reactivity known. No other hazardous reactivities known.

11. TOXICOLOGICAL INFORMATION

Hops used for beer brewing can generally be recommended as safe (GRAS) in accordance with US FDA 21 CFR 170.30(c) and 170.3(f).

12. ECOLOGICAL INFORMATION

The product is all natural and biodegradable

13. DISPOSAL CONSIDERATIONS

Dispose of in accordance with local regulations involved for organic non-hazardous product. Packaging material (wooden pallets, cartons, foils) to be recycled.

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14. TRANSPORT INFORMATION

Road transport:

Warning board: not applicableGGVS/GGVE-classification: not applicableUN-No.: not applicable

Transport on inland waterways:

Class/no/letter: not applicable

Marine transport:

Class: not applicable

Air transport:

Class: not applicable

Further information:

None hazardous product, Comply with applicable state regulations

15. REGULATORY INFORMATION

Identification according to EU-regulations:

•	Hazard identification:	not applicable
•	Product contains:	not applicable
•	R-phrases:	not applicable
•	S-phrases:	not applicable
•	Further information:	not applicable

National federal regulations:

•	Information on workshop limit:	not applicable
•	Regulation on hazardous incidents:	not applicable
•	Regulation on flammable liquids VbF:	not applicable
•	TA air:	not applicable
•	Water hazard classification:	not applicable
•	Further regulations on restrictions and prohibitions:	not applicable

16. OTHER INFORMATION

The product is accompanied by the Phytosanitary certificate, which states that the product has been produced according to the national health regulations. The above information is based on the current state of knowledge of our product at the time of publication and is furnished without warranty of any kind. The user must satisfy himself that the product is entirely suitable for his purposes.