

Safety Data Sheet

Per OSHA Instruction CPL 2-2.039 (1986)

Trade Name:**Type 90 Pellets**

Printing date: 20/06/2013

Revision: 07.07.2011

1 Product and Supplier Information**Product details:****Trade name:****Type 90 Pellets, Hop Pellets 90, Standard Pellets****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.comSimon H. Steiner, Hopfen GmbH
Auhofstr. 18
84048 Mainburg
Germany

+49-8751-8605-0

+49-8751-8605-80

e-mail: aschmid@hopsteiner.deSteiner Hops Ltd.
319A High Street
Epping, Essex CM16 4DA
United Kingdom

+44-1992-572331

+44-1992-573780

e-mail: 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:** not applicable**Information pertaining to particular dangers for man and environment:**

No hazards to be particularly mentioned. Please note the information of this Material Safety Data Sheet.

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:**Compressed and pelletized hop powder produced from many different varieties of cultivated *Humulus lupulus* containing cellulose, hop resins and hop essential oils.**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 unlikely. If dusts are formed and may be inhaled when handling the product, supply fresh air.

After skin contact:

Wash with water and soap.

After eye contact:

Eye contact is unlikely. If particles get into the eye remove as customary for foreign bodies.

After swallowing:

If symptoms persist consult a doctor.

In case of unintentional swallowing of bigger quantities or if any symptoms occur seek medical treatment. Rinse out mouth and then drink plenty of water. If symptoms persist consult doctor.

MSDS 01/01 issued 08/2009

Safety Data Sheet

Per OSHA Instruction CPL 2-2.039 (1986)

Trade Name:**Type 90 Pellets**

Printing date: 20/06/2013

Revision: 07.07.2011

Information for doctor:**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.

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. Ensure adequate ventilation. Use respiratory protective device against the effects of fumes/dust/aerosol.

Measures for environmental protection:

Do not allow product to reach sewage system or any water course. In case of seepage into the ground inform responsible authorities.

Measures for cleaning/collecting:

Pick up mechanically. Avoid dust formation absolutely. If necessary pick up with a tested and approved industrial vacuum cleaner. Send for recovery or disposal in suitable receptacles.

7 Handling and storage**Handling****Information for safe handling:**

No special precautions are necessary if used correctly.

Information about protection against explosions and fires:

Dust can combine with air to form an explosive mixture. Keep ignition sources away - Do not smoke.

Protect against electrostatic charges

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

Store cool and dry.

Information about storage in one common storage facility:

Not required.

Further information about storage conditions:

Keep receptacle tightly sealed.

Maximum storage temperature:

5° C

Minimum storage temperature:

0° C

Storage time:

Up to 2 years when stored correctly

Storage class:

11 Combustible solids

MSDS 01/01 issued 08/2009

Safety Data Sheet

Per OSHA Instruction CPL 2-2.039 (1986)

Trade Name:
Type 90 Pellets

Printing date: 20/06/2013

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.

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

Breathing equipment: Not necessary if room is well-ventilated. At formation of dust: Dust protection mask

Protection of hands: Not required.

Material of gloves: -

Penetration time of glove material: -

Eye protection: Not required.

Body protection: Protective work clothing.

9 Physical and chemical properties

General Information

Form:	Pellets
Colour:	Green
Odour:	Characteristic

Value/Range Unit Method

Change in condition:

Melting point/Melting range: undetermined

Boiling point/Boiling range: not applicable

Flash point: not applicable

Self igniting: Product is not self-igniting.

Danger of explosion: Product is not explosive. However, formation of explosive air/dust mixtures is possible.

Density: undetermined

Solubility in / Miscibility with Water: Slightly soluble

MSDS 01/01 issued 08/2009

Safety Data Sheet

Per OSHA Instruction CPL 2-2.039 (1986)

Trade Name:**Type 90 Pellets**

Printing date: 20/06/2013

Revision: 07.07.2011

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

Dangerous reactions:

As the product is supplied it is not capable of dust explosion; however, the risk of dust explosion cannot be excluded completely if the atmosphere is enriched with fine dust. Therefore avoid formation of dust!

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:** Type 90 Pellets are generally recognized as safe (GRAS) in accordance with US FDA 21 CFR 170.30(c) and 170.3(f).**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:

Eye irritation is possible after mechanical influence (dust).

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. Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

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.

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.

MSDS 01/01 issued 08/2009

Safety Data Sheet

Per OSHA Instruction CPL 2-2.039 (1986)

Trade Name:**Type 90 Pellets**

Printing date: 20/06/2013

Revision: 07.07.2011

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).

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 01/01 issued 08/2009