

## Pellets Type 90

### Safety Data Sheet

According to US OSHA Hazard Communication Standard (HCS 2012); 29 CFR Part 1910.1200

Date of issue: 12/22/2017 Revision date: 12/22/2017 Supersedes: none Version: 1.00

#### SECTION 1: Identification

##### 1.1 Identification

Trade name : Pellets Type 90

##### 1.2 Recommended use and restrictions on use

Use of the substance / mixture : Ingredient in brewing of beer

##### 1.3 Supplier

###### Manufacturer/Supplier/Importer

Hollingbery & Son, Inc  
PO Box 966  
Yakima, WA 98907  
T +1 509 248 6436

###### Email competent person

matt@hollingberyandson.com

##### 1.4 Emergency telephone number

Emergency Number : Hollingbery & Son, Inc.  
Phone: +1 509 248 6436 (Monday – Friday 07.00 – 16.00 Pacific Time)

#### SECTION 2: Hazard(s) identification

##### 2.1 Classification of the substance or mixture

###### GHS-US classification

Acute toxicity (oral)	H302	Harmful if swallowed
Category 4		
Combustible Dust		May form combustible dust concentrations in air
Full text of H statements : see section 16		

##### 2.2 GHS Label elements, including precautionary statements

###### GHS-US labeling

Hazard pictograms (GHS-US) :



Signal word (GHS-US)	: Warning
Hazard Statements (GHS-US)	: May form combustible dust concentrations in air H302 – Harmful if swallowed
Precautionary statements (GHS-US)	: P270 – Do not eat, drink, or smoke when using this product P301+P312 – If swallowed: Call a POISON CENTER, a doctor if you feel unwell P330 – Rinse mouth

##### 2.3 Other hazards which do not result in classification

No additional information available



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#### 2.4 Unknown acute toxicity (GHS US)

Not applicable

### SECTION 3: Composition / Information on ingredients

#### 3.1 Substances

The product consists entirely of pelleted hop cones of the cultivated hop plant *Humulus lupulus*.

#### 3.2 Mixtures

Not applicable

### SECTION 4: First-aid measures

#### 4.1 Description of first aid measures

First-aid measures general	: Call a poison center / doctor / physician if you feel unwell.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact	: Wash skin with plenty of water.
First-aid measures after eye contact	: Rinse eyes with water as a precaution.
First-aid measures after ingestion	: Rinse mouth, drink water to dilute. Call a poison center/doctor/physician if you feel unwell.

#### 4.2 Most important symptoms and effects (acute and delayed)

No additional information available.

#### 4.3 Immediate medical attention and special treatment, if necessary

Treat symptomatically.

### SECTION 5: Fire-fighting measures

#### 5.1 Suitable (and unsuitable) extinguishing media

Suitable extinguishing media	: Water spray. Dry powder. Foam.
Unsuitable extinguishing media	: Strong water jet.

#### 5.2 Specific hazards arising from the chemical

Fire hazard	: May ignite spontaneously if exposed to air.
Reactivity	: The product is non-reactive under normal conditions of use, storage and transport.

#### 5.3 Special protective equipment and precautions for fire-fighters

Firefighting instructions	: Cool closed containers exposed to fire with water spray.
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
Other information	: Do not allow run-off from firefighting to enter drains or water courses. Disposal must be done according to official regulations.

### SECTION 6: Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures



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#### 6.1.1 For non-emergency personnel

Emergency procedures : Ventilate spillage area. Avoid dust formation.

#### 6.1.2 For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment.  
For further information refer to SECTION 8: Exposure controls / personal protection.

#### 6.2 Environmental precautions

Avoid sub-soil penetration. Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.

#### 6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Avoid dust formation. Take up mechanically (sweeping, shoveling) and collect in a suitable container for disposal.

Other information : Disposal must be done according to official regulations.

#### 6.4 Reference to other sections

Information for safe handling. See section 7. Concerning personal protective equipment to use, see section 8. For further information refer to section 13.

### SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

Additional hazards when processed : Dust could form explosive mixtures with air.

Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment.

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash Hands after handling the product.

#### 7.2 Conditions for safe storage, including any incompatibilities

Storage conditions : Keep container tightly closed. Keep away from heat and direct Sunlight. Store in a well-ventilated place. Keep cool.

Maximum storage period : ~ 5 year(s)

Storage temperature (recommended) : < 41 °F

### SECTION 8: Exposure controls / personal protection

#### 8.1 Control parameters

No additional information available

#### 8.2 Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.

Environmental exposure controls : Avoid release to the environment

#### 8.3 Individual protection measures / Personal protective equipment

##### Hand protection:

In case of repeated or prolonged contact wear gloves. Choosing the proper glove is a decision that depends not only on the type of material, but also on other quality features, which differ for each manufacturer. Please



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follow the instructions related to the permeability and the penetration time provided by the manufacturer.  
Gloves must be replaced after each use and whenever signs of wear or perforation appear.

#### Eye protection:

Not required for normal conditions of use. In case of dust production: protective goggles.

#### Skin and body protection:

Wear suitable protective clothing.

#### Respiratory protection:

Accidental release measures. Filter type: P1.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical state	: Solid
Appearance	: Pellet
Color	: Green
Odor	: Characteristic
pH	: No data available
Melting point	: No data available
Freezing point	: Not applicable
Boiling point	: No data available
Flash point	: Not applicable
Relative evaporation rate	: No data available
Flammability (solid, gas)	: Not self-igniting
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: No data available
Solubility	: Water – Slightly soluble
Log Pow	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: Not applicable
Viscosity, dynamic	: Not applicable
Explosion limits	: No data available
Explosive properties	: Product is not explosive. Dust may form explosive mixture in air.
Oxidizing properties	: No data available

### 9.2 Other information

Other properties : Combustible

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

The product is non-reactive under normal conditions of use, storage and transport.



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### 10.2 Chemical stability

Stable under normal conditions. To avoid thermal decomposition, do not overheat.

### 10.3 Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use. Potential dust explosion hazard from airborne release.

### 10.4 Conditions to avoid

No additional information available.

### 10.5 Incompatible materials

No additional information available.

### 10.6 Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

Acute toxicity : Generally Recognized as Safe (GRAS) for their intended use in accordance with US FDA regulation, 21 CFR 170.30(c) and 170.3(f).  
: Oral – Harmful if swallowed.

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ATE US (oral)	707 mg / kg body weight

Skin corrosion / irritation : Not classified  
(Based on available data, the classification criteria are not met)

Serious eye damage / irritation : Not classified  
(Based on available data, the classification criteria are not met)

Respiratory or skin sensitization : Not classified  
(Based on available data, the classification criteria are not met)

Germ cell mutagenicity : Not classified  
(Based on available data, the classification criteria are not met)

Carcinogenicity : Not classified  
(Based on available data, the classification criteria are not met)

Reproductive toxicity : Not classified  
(Based on available data, the classification criteria are not met)

Specific target organ toxicity  
Single exposure : Not classified  
(Based on available data, the classification criteria are not met)

Specific target organ toxicity  
Repeated exposure : Not classified  
(Based on available data, the classification criteria are not met)

Aspiration hazard : Not classified  
(Based on available data, the classification criteria are not met)

## SECTION 12: Ecological information



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- 12.1 Toxicity**  
Ecology – general : No ecotoxicological data about this product are known.
- 12.2 Persistence and degradability**  
No additional information available
- 12.3 Bioaccumulative potential**  
No additional information available
- 12.4 Mobility in soil**  
No additional information available
- 12.5 Other adverse effects**  
Other adverse effects : No additional information available.  
Effect on global warming : No known effects from this product.  
GWPmix comment : No known effects from this product.

### SECTION 13: Disposal considerations

- 13.1 Disposal methods**  
Waste treatment methods : Disposal must be done according to official regulations. Do not dispose of with domestic waste. Do not discharge into drains or the environment.

### SECTION 14: Transport information

#### Department of Transportation (DOT)

In accordance with DOT

Not Applicable

#### TDG

Not applicable

#### Transport by sea

Not applicable

#### Air transport

Not applicable

### SECTION 15: Disposal considerations

#### 15.1 US Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environment Protection Agency Toxic Substances Control Act (TSCA) inventory.



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This product or mixture is not known to contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §32.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

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Manufacturing of food
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### 15.2 International regulations

Not classified.

### 15.3 US State regulations

California Proposition 65 – This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm.

<b>SECTION 16: Other Information</b>
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Revision date : 12/22/2017

Data sources : Information provided by the manufacturer.

Department issuing data specification sheet : Hollingbery & Son, Inc  
PO Box 966  
Yakima, WA 98907  
T +1 509 248 6436

Contact Person : Matt Hollingbery

Full text of H- and P-phrases:

H302	Harmful if swallowed.
P270	Do not eat, drink or smoke when using this product.
P301	If swallowed:
P312	Call a POISON CENTER or doctor/physician if you feel unwell.
P330	Rinse mouth.

Abbreviations and acronyms:

ATE	Acute Toxicity Estimate
SDS	Safety Data Sheet

Indication of changes:

Not applicable.



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*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.*