



Safety Data Sheet (SDS): T90 Hop Pellets

T90 Hop Pellets are a hop product produced from dried, whole leaf hop cones and used in the brewing process to provide bitterness and aroma in beer. Type 90 Hop Pellets are produced in accordance with US FDA regulation 21 CFR 170.30(c) and 170.3(f) and are generally recognized as safe (GRAS). T90 Hop Pellets are not classified as a hazard under the European Union GHS Classification & Labeling of Chemicals Regulation (EC) No. 1272/2008, Directive 67/548/EEC.

1. Product and Company Identification

Product Name: Hop Pellets (Type 90 Pellets)

Synonyms: PEL/PE 90, Kettle Pellets, T-90 Pellets, Hop Pellets

Intended Use: Brewing additive

Manufacturer: Crosby Hop Farm, LLC

8648 Crosby Road NE

Woodburn, OR 97071

Hop products produced and sold by Crosby Hop Farm, LLC under strict Safe Quality Foods (SQF) food safety and food quality standards based on internationally recognized HACCP principles. For more information call: 1-503-982-5166 (Monday-Friday, 8:00am-5:00pm PST)

2. Hazards Identification

Hazard Classification: None

Oral ingestion: Associated dust may be irritating to mouth and throat

Eye contact: Associated dust may be irritating to eyes

Skin contact: Prolonged skin contact may cause dermatitis and/or irritation in some individuals

Other Hazards: Excessive exposure to hop dust may cause respiratory distress in some individuals

3. Composition/Information on Ingredients

Components: 100% by weight pelleted hop cones of the cultivated hop plant *Humulus lupulus*.

CAS number: None

Einecs number: None

4. First Aid Measures

Inhalation: Remove affected individual away from area into fresh air

Skin contact: Brush off excess material and wash skin thoroughly with soap and water if irritation occurs



Eye contact: Flood the eye with plenty of water if irritation occurs. Seek medical attention if irritation persists

Oral ingestion: Drink large amounts of milk or water to dilute if irritation occurs. Vomiting may occur. Consult a physician

5. Fire-Fighting Measures

Extinguishing media: Use dry powder, foam or carbon dioxide. Keep containers and surroundings cool with water spray

Special firefighting procedures: Great care should be taken using water jet/spray. Unusual fire and explosion hazards: No known unusual fire or explosion hazards

6. Accidental Release Measures

Personal protection: Wear appropriate protective clothing to prevent possible irritation from dust; safety glasses, respirator if in confined area, and rubber gloves.

Environmental precautions: Do not allow products to enter drains to avoid potential for clogging of drain due to high oil content/ water insolubility of product

Methods for cleaning up: Normal clean-up procedures for any agricultural commodity

7. Handling and Storage

Handling: Avoid generating excessive dust

Storage: To guarantee quality, avoid exposure to heat, moisture, and strong odors. Pellets should be stored in a cool, dry and odor-free environment between 30°F-41°F (-1°C to 5°C).

Pellets should not be exposed to temperatures above 20°C (68°F) to prevent gas formation from hop constituents. The resulting pressure increase upon gas formation may cause bursting of the storage package, exposing the pellets to air, resulting in oxidation and considerable deterioration of product quality. Suitable storage containers are thick gauge laminated foil/Mylar bags, stainless steel and lacquered mild steel

8. Exposure Controls/Personal Protection

Permissible Exposure Limits (PEL): Not Applicable

Threshold Limit Values (TLV): Not Applicable

Engineering Controls: Respirator, adequate ventilation

Personal Protection Equipment: rubber gloves (if prolonged handling), safety glasses and dust mask or respirator when exposed to excessive dust

9. Physical and Chemical Properties

Form: Compressed and milled into approximately 6 mm (0.24 inches) diameter cylindrical pellets.



Color: Varies with variety; ranges from pale to dark green
Odor: Varies with variety; ranges from hoppy, cheesy, or musky to citrus or floral
Density (kg/m³): 513 (32 lbs/ft³) average, but may vary depending on production parameters
pH: No data available
Viscosity: Not applicable, Solid
Odor Threshold: No data available
Boiling point: No data available
Freezing Point: No data available
Flash point: No data available
Flammability: No data available
Ignition temperature: No data available
Evaporation Rate: Not applicable, Solid
Vapor Pressure/Density: Not applicable, Solid
Solubility in water: Insoluble
Decomposition Temperature: No data available

10. Stability and Reactivity

Stability: Stable under appropriate storage conditions in unopened/closed packaging containers and/or in inert atmosphere storage conditions outlined in Storage Conditions.
Reactivity: Sensitive to oxidation in open packaging containers, in absence of inert atmosphere storage conditions, or exposure to excessive temperatures
Conditions to avoid: Storage temperatures above 20 °C (68 °F) to avoid gas formation and preserve quality
Materials to avoid: No known incompatibilities
Hazardous decomposition products: None known

11. Toxicological Information

The manufacturing and use of this product is supported by a long history of safe use in brewing. In accordance with US FDA 21 CFR 170.30(c) and 170.3(f), hop pellets are generally recognized as safe (GRAS)
Routes of Exposure: Skin Contact = no data available. Eye Contact = no data available.
Inhalation = no data available. Ingestion = No data available.
National Toxicology Program: Not listed on Report of Carcinogens

12. Ecological Information

Ecotoxicity: No data available
Mobility in Soil: No data available
Persistence and degradability: No data available - product is all natural and biodegradable
Bioaccumulation potential: No data available – product is all natural



Other adverse effects: No data available

13. Disposal Considerations

Product disposal: Dispose of in accordance with all applicable local and national regulations

Composting recommended where appropriate

Container disposal: Labels should not be removed until containers have been cleaned.

Contaminated containers should not be treated as household waste. Containers should be cleaned using soap and water or other appropriate methods and then re-used, recycled or disposed of by landfill or incineration as appropriate.

14. Transport Information

D.O.T./NA-No: Not listed

UN-No: Non-hazardous product

Class: Non-hazardous product

Shipping name: Hop Pellets (Type 90 Pellets)

Packaging group: Non-hazardous product

Marine pollutant: Non-hazardous product

Other: Product is not classified as a dangerous good per ADR and should not be transported with ADR classified cargo. Product should be stored away from engines or any heat source during transport.

15. Regulatory Information

Product is food-safe, allergenic-free, non-GMO, and non-ionized/radiated. Heavy metals, nitrates and pesticide residues are below tolerance levels.

REACH Phrases: N/A - no EINECS Ref.

16. Other Information

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2	Entire document		Update of technical data	Carman McKinney	04.11.2025
2	Entire document		Annual Review	Jeff Edgerton	03.10.2026
Approver Name (Printed)		Approver Role (Printed)	Approver Signature (Scanned or electronic)		Approval Date
Jeff Edgerton		Director of Quality	Jeff Edgerton		03.10.2026
Document Owner Name (Printed)		Document Owner Role (Printed)	Document Owner Signature (If Approver, N/A)		Approval Date
Jackie Crosby		Director of Operations	Jackie Crosby		03.10.2026

The information provided in this Safety Data Sheet is based on the manufacturer's current industry knowledge, is believed to be correct, but does not prove to be all-inclusive and is intended to be used only as a guide. The determination of whether and under what conditions the product should be used is up to the consumer. The manufacturer does not accept any liability for loss, injury, or damage that may result from the misuse of the product.