



SAFETY DATA SHEET

1. Identification

Product identifier Hemicell HT 1.5X Feed Enzyme for Poultry and Swine

Other means of identification

Item Code AG3312

Synonyms Hemicell-HT 1.5X * Hemicell-HT Feed Enzyme for Poultry and Swine * Hemicell HT-D 1.5X

Recommended use Feed Enzyme; zootechnical feed additive.

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company Name Elanco Animal Health
2500 Innovation Way
Greenfield, IN 46140
US

Phone: 1-877-Elanco1 (1-877-352-6261)

Email: lilly_msds@lilly.com

Emergency Telephone Numbers: Elanco Product Technical Support / Human or Animal Exposure Reporting: 1-888-545-5973
Transportation Emergency Telephone: CHEMTREC: 1-800-424-9300 (Outside U.S. 1-703-527-3887)

2. Hazard(s) identification

Physical hazards Not classified.

Health hazards

Serious eye damage/eye irritation	Category 2B
Sensitization, respiratory	Category 1
Sensitization, skin	Category 1

OSHA defined hazards Combustible dust

Label elements



Signal word Danger

Hazard statement

H317 May form combustible dust concentrations in air.
H320 May cause an allergic skin reaction.
H334 Causes eye irritation.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Precautionary statement

Prevention

P261 Avoid breathing dust/fume/gas/mist/vapors/spray.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P285 In case of inadequate ventilation wear respiratory protection.

Response

P304 + P341 IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.

Storage Not available.

Disposal

P501

Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise classified (HNOC)

None known.

Supplemental information

None.

3. Composition/information on ingredients**Mixtures**

Chemical name	Common name and synonyms	CAS number	%
Dried Bacillus lentus fermentation solubles (beta-D-mannanase)		37288-54-3	3
Linseed Meal Solvent Extracted		N/A	58
Mineral Oil, technical grade white oil	MINERAL OIL	8012-95-1	1
Other components below reportable levels			38

Composition comments

Remaining components of this product are non-hazardous and/or are present at concentrations below reportable levels.

4. First-aid measures**Inhalation**

If experiencing respiratory symptoms: Get medical attention.

Skin contact

Immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if irritation develops and persists. Wash contaminated clothing before reuse.

Eye contact

In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.

Ingestion

Give several glasses of water. Never give anything by mouth to a victim who is unconscious or is having convulsions. Call a physician or poison control center immediately.

Most important symptoms/effects, acute and delayed

Eye irritation. May cause allergic respiratory and skin reactions.

General information

In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

5. Fire-fighting measures**Suitable extinguishing media**

Water. Carbon dioxide (CO2). Dry chemical.

Unsuitable extinguishing media

None known.

Specific hazards arising from the chemical

Hazardous decomposition products formed under fire conditions.

Special protective equipment and precautions for firefighters

Wear self-contained breathing apparatus and protective clothing.

General fire hazards

Dust may form explosive mixture with air.

6. Accidental release measures**Personal precautions, protective equipment and emergency procedures**

Wear suitable protective clothing, gloves and eye/face protection. Avoid inhalation of dust. See Section 8 of the SDS for Personal Protective Equipment.

Methods and materials for containment and cleaning up

Small Spillages:

Do not sweep. Vacuum material with appropriate dust collection filter in place. Be aware of potential for dust explosion when using electrical equipment. If vacuum is not available, lightly mist/wet material and remove by mopping or wet wiping.

Large Spillages:

Prevent further migration into the environment. Remove sources of ignition. Collect in a non-combustible container for prompt disposal. Local authorities should be advised if significant spillages cannot be contained.

Environmental precautions Prevent further leakage or spillage if safe to do so. Prevent spilled material from flowing onto adjacent land or into streams, ponds, or lakes.

7. Handling and storage

Precautions for safe handling Minimize dust generation and accumulation. Keep away from heat and sources of ignition. Avoid release to the environment.

Conditions for safe storage, including any incompatibilities Keep container tightly closed. Store in a cool, dry place with adequate ventilation. Keep away from incompatible materials, open flames, and high temperatures. Keep away from moisture. Avoid contact with oxidizing agents. Do not store in open or unlabelled containers.

8. Exposure controls/personal protection

Exposure guidelines Lilly Interim Exposure Guideline: <100 micrograms/m³ TWA 12 hour (beta-D-mannanase)

Occupational exposure limits

US. ACGIH Threshold Limit Values

Components	Type	Value	Form
Mineral Oil, technical grade white oil (CAS 8012-95-1)	TWA	5 mg/m ³	Inhalable fraction.

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value	Form
Mineral Oil, technical grade white oil (CAS 8012-95-1)	PEL	5 mg/m ³	Mist.

US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value	Form
Mineral Oil, technical grade white oil (CAS 8012-95-1)	STEL	10 mg/m ³	Mist.
	TWA	5 mg/m ³	Mist.

Biological limit values No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls Laboratory fume hood or local exhaust ventilation.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear goggles/face shield.

Skin protection

Hand protection Chemical-resistant gloves and impermeable body covering to minimize skin contact.

Other Chemical-resistant gloves and impermeable body covering to minimize skin contact.

Respiratory protection In case of inadequate ventilation, use respiratory protection. Select appropriate respirator for physical characteristics of material. Select respirator with appropriate protection factor.

Thermal hazards Not available.

General hygiene considerations In a manufacturing setting, wear chemical-resistant gloves and body covering to minimize skin contact. If handled in a ventilated enclosure, as in a laboratory setting, respirator and goggles or face shield may not be required. Safety glasses are always required.

Under normal use and handling conditions, wear goggles to protect eyes and wear impermeable gloves and protective equipment to avoid direct contact with skin. Wash thoroughly with soap and water after handling.

9. Physical and chemical properties

Appearance

Physical state Solid.

Form Solid.

Color Light brown.

Odor Plant meal

Odor threshold No data available.

pH No data available.

Melting point/freezing point No data available.

Initial boiling point and boiling range No data available.

Flash point No data available.
Evaporation rate No data available.
Flammability (solid, gas) No test data available.
Upper/lower flammability or explosive limits
Flammability limit - lower (%) No data available.
Flammability limit - upper (%) No data available.
Explosive limit - lower (%) No data available.
Explosive limit - upper (%) No data available.

Vapor pressure No data available.
Vapor density Not available.
Relative density No data available.
Solubility(ies)
Solubility (water) Very slight
Partition coefficient (n-octanol/water) Not available.
Auto-ignition temperature No data available.
Decomposition temperature No data available.
Viscosity No data available.

Other information
Density 37.00 - 56.00 lb/ft³ (0.6 to 0.9 g/cc3)
Explosive properties Not explosive
Oxidizing properties No oxidizing properties.
Potential for dust explosion No data available.

10. Stability and reactivity

Reactivity Not available.
Chemical stability Material is stable under normal conditions.
Possibility of hazardous reactions Hazardous polymerization does not occur.
Conditions to avoid None known.
Incompatible materials Strong oxidizing agents.
Hazardous decomposition products Hazardous decomposition products formed under fire conditions.

11. Toxicological information

Information on toxicological effects

Acute toxicity Based on available data, the classification criteria are not met.

Components	Species	Test Results
Dried Bacillus lentus fermentation solubles (beta-D-mannanase) (CAS 37288-54-3)		
Chronic		
<i>Oral</i>		
NOAEL	Rat	> 75 mg/kg, 90 days (equivalent to >1000X commercial dose)
Skin corrosion/irritation	Rabbit: No skin irritation. (Hemicell HT)	
Serious eye damage/eye irritation	Rabbit: Irritating to eyes. (Hemicell HT)	
Respiratory or skin sensitization		
Respiratory sensitization	May cause sensitization by inhalation.	

Skin sensitization Local Lymph Node Assay (LLNA): May cause sensitization by skin contact. (Hemicell HT)
Germ cell mutagenicity Results in genetic toxicity assays (in vitro): Negative (beta-D-mannanase)
Based on available data, the classification criteria are not met.
Carcinogenicity This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.
Based on available data, the classification criteria are not met.

IARC Monographs. Overall Evaluation of Carcinogenicity

Mineral Oil, technical grade white oil (CAS 8012-95-1) 3 Not classifiable as to carcinogenicity to humans.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Reproductive toxicity Due to lack of data the classification is not possible.
Specific target organ toxicity - single exposure No significant target organ toxicity reported.
Based on available data, the classification criteria are not met.
Specific target organ toxicity - repeated exposure No significant target organ toxicity reported.
Based on available data, the classification criteria are not met.
Aspiration hazard Due to lack of data the classification is not possible.
Chronic effects No significant target organ toxicity reported.

12. Ecological information

Ecotoxicity Not expected to be harmful to aquatic organisms.
Persistence and degradability The active ingredient, an enzyme, does not persist but is naturally broken down into smaller compounds and excreted.
Bioaccumulative potential The product does not contain any substances expected to be bioaccumulating.
Mobility in soil No data available.
Other adverse effects Not available.

13. Disposal considerations

Disposal instructions Dispose of contents/container in accordance with local/regional/national/international regulations.

14. Transport information

DOT
Not regulated as dangerous goods.

IATA
Not regulated as dangerous goods.

IMDG
Not regulated as dangerous goods.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code This substance/mixture is not intended to be transported in bulk.

15. Regulatory information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
CERCLA/SARA Hazardous Substances - Not applicable.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Disclaimer

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For additional information contact:

Elanco Animal Health

00+1+877-352-6261

00+1-800-428-4441

Revision Information

Product and Company Identification: Synonyms

