SAFETY DATA SHEETS

This SDS packet was issued with item:

078868178

The safety data sheets (SDS) in this packet apply to the individual products listed below. Please refer to invoice for specific item number(s).

078868145 078868152 078868160 078869376 078869384 078869392 078869400

SAFETY DATA SHEETS

This SDS packet was issued with item:

078869392

The safety data sheets (SDS) in this packet apply to the individual products listed below. Please refer to invoice for specific item number(s).

078868145 078868152 078868160 078868178 078869376 078869384 078869400

MATERIAL SAFETY DATA SHEET

Sogeval Enzyme Solution for Rawhide Dog Chews

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Sogeval Enzyme Solution for Rawhide Dog Chews

Product Number: SES 10-712-1

Synonym(s): Glucose oxidase / Whey Protein Concentration Solution

Product Use: Rawhide dog chew additive

Description: Aqueous solution containing enzymes (protein), buffering salts and preservative.

Corporate Headquarters

Oraceutical LLC
815 Pleasant Street
Lee, MA 01238
USA
Phone: 413-528-5070

Manufacturer/Distributor

Oraceutical LLC
815 Pleasant Street
Lee, MA 01238
USA
Phone: 413-528-5070

Emergency Telephone Numbers

Oraceutical (U.S.): 413-528-5070

2. HAZARDS IDENTIFICATION

Precautionary Statements:

CAUTION! The chemical, physical and toxicological properties of this preparation have not been thoroughly characterized. Avoid contact with eyes and skin. Do not ingest or inhale. Preparation appearance: greenish brown liquid.

Routes of Exposure:

Occupational exposure routes may include eye contact, skin contact and inhalation.

Potential Health Effects:

Inhalation	No data available. Although there is no evidence that the enzyme(s) in this preparation induces specific respiratory hypersensitivity, all proteins are potential respiratory allergens and may result in respiratory sensitization in certain individuals after repeated and/or prolonged inhalation exposure, producing mild to severe symptoms similar to pollen allergy or asthma, including mucous membrane or eye irritation, itching of the skin or eyes, sneezing, nasal or sinus congestion, coughing, and tightness in the chest. These symptoms may develop as late as 12 hours after exposure.
Eye	No data available. Eye exposure may cause irritation, redness and itching.
Skin	No data available. Skin contact may cause irritation, dryness and redness.
Ingestion	No data available.
Chronic Effects	No data available. Repeated inhalation may result in respiratory sensitization.
Target Organs	Unknown.

Regulatory Status:

This preparation is not classified as hazardous under U.S. OSHA 29 CFR 1910.1200; E.C. Directive 1999/45/EC; Canadian R.S. 1985, c. H-3; U.K. CHIP 2002 No. 1689; and/or U.N. GHS ST/SG/AC 10/30. Refer to Sec. 15, Regulatory Information, for details regarding hazard classification.

None of the components present in this preparation at concentrations equal to or greater than 0.1% are listed by IARC, NTP, OSHA or ACGIH as a carcinogen.

Potential Environmental Effects:

No data available.

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3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient Name	CAS #	EC #	% (wt/wt)
Water	7732-18-5	231-791-2	97 - 99
EC R-Phrases: None	**EC Hazard Class:** None		
Glucose oxidase	9001-37-0	232-601-0	< 1
EC R-Phrases: None	**EC Hazard Class:** None		
Potassium sorbate	24634-61-5	246-376-1	< 1
EC R-Phrases: None	**EC Hazard Class:** None		
Lactoperoxidase	9003-99-0	232-668-6	< 1
EC R-Phrases: None	**EC Hazard Class:** None		

NOTES - Glucose oxidase - Enzyme source: Aspergillus niger, Enzyme Commission number: 1.1.3.4
Lactoperoxidase - Enzyme source: Cow's milk, Enzyme Commission number 1.11.1.7

4. FIRST AID MEASURES

Inhalation:

If inhaled, move from exposure area to fresh air. Seek medical attention if breathing becomes difficult or if cough or other symptoms develop.

Eye Contact:

Immediately flush eyes with plenty of tepid water for 15 minutes while separating eyelids with fingers. Remove contact lenses if worn. Obtain medical attention if needed or if symptoms, such as redness or irritation persist.

Skin Contact:

In case of contact, flush skin with cool water and remove contaminated clothing. Obtain medical attention if needed or if irritation or other symptoms develop.

Ingestion:

In case of ingestion, contact a poison control center or physician for instructions.

5. FIRE FIGHTING MEASURES

Flammable Properties:

Dilute aqueous solution not considered a fire hazard.

Suitable Extinguishing Media:

Use extinguishing media suitable for surrounding fire, such as carbon dioxide, chemical foam, dry chemical or water spray.

Unsuitable Extinguishing Media:

Unknown.

Specific Hazards Arising from the Chemical:

None expected.

Standard Protective Equipment and Precautions for Firefighters:

Firefighters should wear NIOSH-approved or equivalent Self-Contained Breathing Apparatus and full protective gear.

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6. ACCIDENTAL RELEASE MEASURES

Personal Precautions:

Avoid physical contact with material and avoid aerosol inhalation. Wear Personal Protective Equipment (PPE) as indicated in Section 8. Wash hands thoroughly after handling.

Environmental Precautions:

No information available.

Methods and Materials for Containment and Clean-Up:

Absorb spill with inert material/sorbent. Decontaminate the spill site following standard procedures. Dispose of materials in accordance with all applicable federal, state, local and provincial environmental regulations, per Section 13.

7. HANDLING AND STORAGE

Handling:

Follow good laboratory hygiene practices. See Section 8, Engineering Controls. Minimize contact and contamination of personal clothing and skin. Wash hands thoroughly after handling.

Storage:

Store at 2 - 8°C (36 - 46°F). Do not store with incompatible substances; see Section 10.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines:

There are no ACGIH, NIOSH, OSHA or country-specific occupational exposure limits currently established for components present in this preparation at concentrations equal to or greater than 1% (0.1% if carcinogen).

Engineering Controls:

Use in well ventilated areas. If handling large quantities or there is a potential for dust or aerosol generation, use local exhaust ventilation. Facilities storing or using this material should be equipped with an eyewash fountain and a safety shower.

Personal Protective Equipment (PPE):

Respiratory	A respirator is not required under normal conditions of use.
Eye/Face	Wear appropriate protective chemical safety glasses.
Skin	Wear lab coat or other protective garments. Remove contaminated clothing promptly.
Gloves	Wear chemical resistant protective gloves.
General	Follow company-specific safety procedures.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Greenish brown liquid	**pH:**	4.8 - 5.2
Odor:	Not available	**Solubility:**	Water-soluble
Boiling Point:	Not available	**Evaporation Rate:**	Not available
Melting Point:	Not applicable	**Vapor Pressure:**	Not available
Freezing Point:	Not available	**Partition Coefficient (n-octanol/water):**	Not available

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Flammability/Explosivity Limits in Air, Lower: Not available
Flammability/Explosivity Limits in Air, Upper: Not available
Auto-Ignition Temperature: Not applicable
Flash Point: Not available

10. STABILITY AND REACTIVITY

Chemical Stability:

Stable under ordinary conditions of use and storage. See Section 7.

Conditions to Avoid:

Unknown.

Incompatible Materials:

Unknown.

Hazardous Decomposition Products:

Thermal decomposition may lead to release of irritating gases and vapors.

Possibility of Hazardous Reactions:

Hazardous polymerization will not occur.

11. TOXICOLOGICAL INFORMATION

Acute Effects:

Toxicology Data - Selected LD50s and LC50s

Potassium sorbate	24634-61-5	Oral LD50 Rat: 3200 mg/kg

Local Effects:

No data available.

Chronic Effects:

No data available.

Carcinogenicity:

No data available.

Mutagenicity:

No data available.

Teratogenicity:

No data available.

Reproductive Effects:

No data available.

Sensitization:

No data available.

12. ECOLOGICAL INFORMATION

Ecotoxicity:

Ecotoxicity - Freshwater Fish Species Data

Potassium sorbate	24634-61-5	96 Hr LC50 Brachydanio rerio: 1250 mg/L [static]

Ecotoxicity - Water Flea Data

Potassium sorbate	24634-61-5	48 Hr EC50 Daphnia magna: 750 mg/L

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Persistance and Degradability:

No data available.

Bioaccumulative Potential:

No data available.

Mobility in Environmental Media:

No data available.

13. DISPOSAL CONSIDERATIONS

Methods of Disposal:

Dispose of unused product, spilled material and waste in accordance with all applicable federal, state, local and provincial environmental and hazardous waste regulations.

14. TRANSPORT INFORMATION

Basic Shipping Description:

Not classified as dangerous goods. Not regulated per IATA and DOT regulations.

15. REGULATORY INFORMATION

US Federal Regulations:

Inventory - United States - Section 8(b) Inventory (TSCA)

Glucose oxidase	9001-37-0	XU
Potassium sorbate	24634-61-5	Present

International Regulations:

Inventory - Australia - Inventory of Chemical Substances (AICS)

Glucose oxidase	9001-37-0	Present
Potassium sorbate	24634-61-5	Present

Inventory - Canada - Domestic Substances List (DSL)

Potassium sorbate	24634-61-5	Present

Inventory - Canada - Organisms on the Domestic Substances List (DSL)

Glucose oxidase	9001-37-0	IUB #1.1.3.4

Inventory - China

Potassium sorbate	24634-61-5	Present

Inventory - European Union - European Inventory of Existing Commercial Chemical Substances (EINECS)

Glucose oxidase	9001-37-0	232-601-0
Potassium sorbate	24634-61-5	246-376-1

Inventory - Japan Existing and New Chemical Substances (ENCS)

Potassium sorbate	24634-61-5	2-1076; 2-2575

Inventory - Korea - Existing and Evaluated Chemical Substances

Glucose oxidase	9001-37-0	KE-17750
Potassium sorbate	24634-61-5	KE-18528

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Canadian Hazardous Products:

WHMIS Status Non-controlled

European Communities Dangerous Substances/Preparations:

EC Hazard Class None

Risk Phrases None

Safety Phrases None

16. OTHER INFORMATION

Further Information:

This MSDS has been prepared in accordance with the ANSI Z400.1 format. Every effort has been made to adhere to the hazard criteria and content requirements of the U.S. OSHA Hazard Communication Standard, Canadian Controlled Products Regulation (CPR), UK Chemical Hazard Information and Packaging Regulations, European Communities REACH Regulation, and UN Globally Harmonized System of Classification and Labelling of Chemicals.

MSDS Origination Date: October 23, 2011

Version #: 2

Revision Date: November 1, 2011

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