

## **SAFETY DATA SHEETS**

**This SDS packet was issued with item:**

078868145

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

078868152 078868160 078868178 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:**

<b>Inhalation</b>	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.
<b>Eye</b>	No data available. Eye exposure may cause irritation, redness and itching.
<b>Skin</b>	No data available. Skin contact may cause irritation, dryness and redness.
<b>Ingestion</b>	No data available.
<b>Chronic Effects</b>	No data available. Repeated inhalation may result in respiratory sensitization.
<b>Target Organs</b>	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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**Sogeval Enzyme Solution for Rawhide Dog Chews**

**3. COMPOSITION / INFORMATION ON INGREDIENTS**

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

### 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):

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

### 9. PHYSICAL AND CHEMICAL PROPERTIES

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

# MATERIAL SAFETY DATA SHEET

## Sogeval Enzyme Solution for Rawhide Dog Chews

**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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## Sogeval Enzyme Solution for Rawhide Dog Chews

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

Glucose oxidase	9001-37-0	IUB #1.1.3.4
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#### Inventory - China

Potassium sorbate	24634-61-5	Present
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#### 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
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#### 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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## Sogeval Enzyme Solution for Rawhide Dog Chews

### 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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