Safety Data Sheet

Section 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product Identifier — **ORTHOZIME**

Registration number — ECHA-67b3b986-d59d-4d4e-82be-5b18ebbbf282

1.2 Relevant identified uses of the substance or mixture — Enzymatic Detergent

Uses advised against — Not applicable

1.3 Supplied by (Authorised Rep. for CE)

PESKETT SOLUTIONS LTD
Unit 4-5 Brampton Business Park
55 Brampton Road
Eastbourne, East Sussex
BN22 9AF

Manufactured by

RUHOF CORPORATION
393 Sagamore Avenue, Mineola,
New York 11501-1919 USA

Effective Date: 13 October 2011
Data Sheet Reference:
Contact: Matthew Peskett
Email: matthew@ruhof.co.uk

1.4 Emergency Telephone Number — 01323 511038, 07973 166737

Section 2: Hazards Identification

2.1 Classification of the substance or mixture

Product Definition: Mono-constituent substance

Classification according to Regulation (EC) No. 1272/2008 and its amendments

Eye Contact	**R36** Irritation and Reddening, Category 1.
Skin Contact	**R38** Irritation Category 1.
Inhalation	**R37** Irritation of respiratory tract, Category 1.
Ingestion	**R22** GASTRIC UPSET AND IRRITATION.

Classification according to Directive 67/548/EEC, 1999/45/EC and its amendments

Medical Conditions Generally Aggravated by Exposure:	**R36/37/38** Sensitivity in nasal area, skin, eyes.
Category of Danger?	None

2.2 Label elements

Hazard pictograms	None
Hazard symbols	None
Risk phrase	R36/37/38 Irritating to eyes, respiratory system and skin

2.3 Other hazards

R42- Repeated inhalation of enzyme spray or mist may cause allergic reaction in susceptible persons if used incorrectly.

Section 3: Composition/information on ingredients

Substance/mixture — Mono-constituent substance

Product/ingredient name	Identifier	HSC(UK) WEL	% (Optional)
2 – Propanol	67-63-0	400 ppm	10

There are no additional ingredients present which, within the current knowledge of the supplier, are classified and contribute to the classification of the substance and hence require reporting in this section.

Section 4: First-Aid Measures:

4.1 Description of first aid measures

Eye Contact	**S36** Flush 15 minutes with clean water
Skin Contact	**S28** Flush with a large amount of water
Inhalation	**S63** Remove to fresh air
Ingestion	**S62** If ingested (not likely) give one or two glasses of water and consult physician.

4.2 Most important symptoms and effects, both acute and delayed

Eye Contact	Irritation and reddening
Skin Contact	Irritation
Inhalation	Irritation of respiratory tract
Ingestion	No specific data

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested.
Specific Treatments	No specific treatment

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Section 5: Firefighting Measures

5.1 Extinguishing media

Extinguishing Media	Water, Fog, Foam, CO2, DRY CHEMICAL

5.2 Special hazards arising from the substance or mixture

Fire/Explosion Hazards	None Known
Hazardous Decomposition/Byproducts	None Known

5.3 Advise for firefighters

Special Fire Fighting Procedures	Fight surrounding fire use equipment as if chemical fire.

Section 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	No action shall be taken involving any personal risk without suitable training. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	If specialised clothing is required to deal with the spillage, take note of any information in section 8 on suitable and unsuitable materials. See also information in "For non-emergency personnel".

6.2 Environmental precautions This product is full biodegradable. Follow all national or regional regulations for disposal.

6.3 Methods and material for containment and cleaning up

In Case Material Is Released or Spilled	Flush or Mop to sanitary sewer. Biodegradeable.

6.4 Reference to other sections See section 1 for emergency contact information.
See section 8 for information on appropriate personal protective equipment.
See section 13 for additional waste treatment information.

Section 7: Handling and storage

7.1 Precautions for safe handling Handle with usual precautions for chemicals. Put on appropriate personal protective equipment (see Section 8). Do no ingest.

7.2 Conditions for safe storage, including any incompatibilities Store in a cool dry area in accordance with local regulations. Keep away from oxidants.

7.3 Specific end use(s)

Recommendations	N/A
Industrial sector specific solutions	N/A

Section 8: Exposure Controls/Personal Protection

8.1 Control parameters

Recommended monitoring procedures	If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to European Standard EN 689 for methods for the assessment of exposure by inhalation to chemical agents and national guidance documents for methods for the determination of hazardous substances.
Derived effect levels	No DELs available
Predicted effect concentrations	No PECs available

8.2 Exposure Controls

Eye Protection	**S39** - WEAR EYE/FACE PROTECTION
Hand Protection/Gloves	**S37** - PLASTIC OR RUBBER.
Respiratory Protection	**S23** - EN405 (GRADE FFA1P2D) - MASK IF MIST IS LIKELY.
Special Clothing/ Equipment	**S36** - APRON.
Other Work/Hygiene Precautions	Wash contaminated clothing before reuse.

Section 9: Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Appearance:	Clear Green Liquid
Odour:	Sweet Odour
pH:	6.0-7.5
Boiling Point:	100°C
Melting Point:	N/A
Evaporation Rate:	1
Evaporation Standard:	Water
Specific Gravity (Water=1):	1.0
Vapour Pressure (mm Hg):	As Water
Relative Density (Air = 1):	N/A
Solubility in Water:	Complete

9.2 Other information No additional information

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Section 10: Stability and Reactivity

10.1 Reactivity	No specific test data related to reactivity available for this product or its ingredients.
10.2 Chemical Stability	The product is stable.
10.3 Possibility of hazardous reactions	Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid	Do not freeze
10.5 Incompatible materials	Strong oxidants
10.6 Hazardous decomposition products	None Known

Section 11: Toxicological Information

11.1 Information on toxicological effects

Carcinogenicity	No	Mutagenicity	No
NTP	No	Reproductive Toxin	No
IARC	No	Possible Sensitizer	No
HSC Regulated	No		

Section 12: Ecological information

12.1 Toxicity	Not applicable
12.2 Persistence and degradability	Biodegradable
12.3 Bioaccumulative potential	Low
12.4 Mobility in soil	Not applicable
12.5 Results of PBT and vPvB assessment	
PBT	No P: N/A. B: N/A. T: No.
vPvB	N/A vP: N/A. vB: N/A.
12.6 Other adverse effects	No known significant effects or critical hazards.

Section 13: Disposal Considerations

13.1 Waste treatment methods

Disposal Method	Landfill or sewer - Biodegradable. Follow all national or regional regulations for disposal.

Section 14: Transport Information

14.1 UN number	N/A
14.2 UN proper shipping name	N/A
14.3 Transport hazard class(es)	N/A
14.4 Packing group	N/A
14.5 Environmental hazards	N/A
14.6 Special precautions for user	N/A
Product Regulated for Transport	No
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	N/A

Section 15: Regulatory Information

15.1 Safety, health and environmental regulations/legislations specific for the substance or mixture

Special Health and Safety Information:	None
Classification:	None
Risk, and Safety Information for Label:	N/A
15.2 Chemical Safety Assessment	N/A

Section 16: Other information

NFPA 704(USA): Health=1 ; Flammability=0 ; Reactivity=0 ; Special=None
Sara Hazards: Fire? No ; Pressure? No ; Reactivity? NO ; Acute? Yes ; Chronic? No

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