

Material Safety Data Sheet

Quantum Ultra Firm Exothermic Perm - Thermolizer



1. Identification of the material and supplier

Names

Product name : Quantum Ultra Firm Exothermic Perm - Thermolizer

Distributor : SABRE CORPORATION
75 South Creek Road
Dee Why, NSW 2099
Australia
Phone: 02-9982-0100

Manufacturer : Zotos International, INC
100 Tokeneke Road,
Darien, CT 06820
www.zotos.com

Emergency telephone number : 131126

2. Hazards identification

Classification : Not regulated.

Risk phrases : Not classified.

Statement of hazardous/dangerous nature : NON-HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS.

NOT EXPECTED TO PRODUCE SIGNIFICANT ADVERSE HEALTH EFFECTS WHEN THE RECOMMENDED INSTRUCTIONS FOR USE ARE FOLLOWED.

3. Composition/information on ingredients

Mixture : Yes.

Ingredient name	CAS number	Concentration
hydrogen peroxide solution	7722-84-1	3.65
Propylene glycol	57-55-6	1.75

Other ingredients, determined not to be hazardous according to Safe Work Australia criteria, and not dangerous according to the ADG Code, make up the product concentration to 100%.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

4. First aid measures

First aid measures

Inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if you feel unwell.

Ingestion : Call physician immediately.

Skin contact : Wash the contaminated skin gently and thoroughly with running water and non-abrasive soap.

Eye contact : Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Get medical attention if you feel unwell.

Protection of first-aiders : Use suitable protective equipment (section 8).

Advice to doctor : Treat symptomatically.

5. Fire-fighting measures

Extinguishing media : Extinguish fire using an agent suitable for the surrounding fire.

Special exposure hazards : None.

Special protective equipment for fire-fighters : In a fire, decomposition may produce toxic gases/fumes. Wear suitable protective clothing.

6. Accidental release measures

- Personal precautions** : Rubber gloves.
- Environmental precautions** : Store in a cool, well-ventilated, dry place. NOT EXPECTED TO PRODUCE SIGNIFICANT ADVERSE HEALTH EFFECTS WHEN THE RECOMMENDED INSTRUCTIONS FOR USE ARE FOLLOWED.
- Methods for cleaning up** : Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Place spilled material in an appropriate container for disposal. After contact with skin, wash immediately with plenty of water.

7. Handling and storage

- Handling** : Avoid contact with skin and eyes. Store in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10).
- Storage** : Store in a cool, well-ventilated, dry place. Store in a dry place at low temperature away from ignition and heat sources. Avoid increased storage temperature.

8. Exposure controls/personal protection

Occupational exposure limits

Ingredient name	Exposure limits
hydrogen peroxide solution	Safe Work Australia (Australia, 8/2005). TWA: 1.4 mg/m ³ 8 hour(s). TWA: 1 ppm 8 hour(s).
Propylene glycol	Safe Work Australia (Australia, 8/2005). TWA: 10 mg/m ³ 8 hour(s). Form: Particulate TWA: 150 ppm 8 hour(s). Form: Vapor and particulates TWA: 474 mg/m ³ 8 hour(s). Form: Vapor and particulates

- 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.

Exposure controls

- Engineering measures** : In case of insufficient ventilation, wear suitable respiratory equipment.
- Hygiene measures** : When using do not eat, drink or smoke.
- Eyes** : None.
- Hands** : None.
- Respiratory** : In case of insufficient ventilation, wear suitable respiratory equipment.
- Skin** : Wear suitable protective clothing.
- Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

9. Physical and chemical properties

- Physical state** : Liquid. [Viscous liquid.]
- Color** : Off-white.
- Odor** : Fragrant.
- Boiling point** : >100°C (>212°F)
- Relative density** : 1.004 to 1.01
- Density** : 1.1 to 2.1 g/cm³
- Flash point** : Closed cup: Not applicable.
- pH** : 3 to 4
- Flame duration** : Not applicable.

10. Stability and reactivity

- Chemical stability** : Not available.
Possibility of hazardous reactions : Not available.
Conditions to avoid : Not available.
Materials to avoid : Reducing agents metals
Hazardous decomposition products : Contaminated product generates oxygen gas pressure build-up

11. Toxicological information

Potential acute health effects

- Inhalation** : Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.
Ingestion : No known significant effects or critical hazards.
Skin contact : No known significant effects or critical hazards.
Eye contact : No known significant effects or critical hazards.

Acute toxicity

Product/ingredient name	Result	Dose	Exposure
hydrogen peroxide solution	LC50 Inhalation Vapor	2 g/m3	4 hours
	LD50 Dermal	3 g/kg	-
	LD50 Oral	376 mg/kg	-
Propylene glycol	LD50 Dermal	20800 mg/kg	-
	LD50 Oral	20 g/kg	-

Conclusion/Summary : Not available.

Potential chronic health effects

Chronic toxicity

Conclusion/Summary : Not available.

Irritation/Corrosion

Product/ingredient name	Result	Score	Exposure	Observation
hydrogen peroxide solution	Eyes - Severe irritant	-	1 milligrams	-
Propylene glycol	Eyes - Mild irritant	-	24 hours 500 milligrams	-
	Eyes - Mild irritant	-	100 milligrams	-
	Skin - Moderate irritant	-	96 hours 30 Percent continuous	-
	Skin - Mild irritant	-	168 hours 500 milligrams	-
	Skin - Moderate irritant	-	72 hours 104 milligrams Intermittent	-
	Skin - Mild irritant	-	96 hours 30 Percent	-

Conclusion/Summary : Not available.

Sensitizer

Conclusion/Summary : Not available.

Carcinogenicity

Conclusion/Summary : Not available.

Mutagenicity

Conclusion/Summary : Not available.

Teratogenicity

Conclusion/Summary : Not available.

Reproductive toxicity

Conclusion/Summary : Not available.

Chronic effects : No known significant effects or critical hazards.

Carcinogenicity : No known significant effects or critical hazards.

11. Toxicological information

- Mutagenicity** : No known significant effects or critical hazards.
Teratogenicity : No known significant effects or critical hazards.
Developmental effects : No known significant effects or critical hazards.
Fertility effects : No known significant effects or critical hazards.

Over-exposure signs/symptoms

- Inhalation** : No specific data.
Ingestion : No specific data.
Skin : No specific data.
Eyes : No specific data.
Target organs : Contains material which may cause damage to the following organs: blood, lungs, upper respiratory tract, skin, central nervous system (CNS), eye, lens or cornea.

12. Ecological information

THE FOLLOWING DATA IN THIS SECTION IS SOURCED FROM PUBLICLY AVAILABLE DATABASES AND NOT THE REPRESENTATION OF ANY DATA COLLECTED BY ZOTOS INTERNATIONAL OR ITS AFFILIATES.

- Ecotoxicity** : No known significant effects or critical hazards.

Aquatic ecotoxicity

Product/ingredient name	Result	Species	Exposure
hydrogen peroxide solution	Acute EC50 1.2 mg/L Marine water	Algae - Dunaliella tertiolecta - Exponential growth phase	72 hours
	Acute EC50 5.38 mg/L Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours
	Acute EC50 2320 ug/L Fresh water	Daphnia - Daphnia magna - Neonate - <24 hours	48 hours
	Acute LC50 22 ppm Fresh water	Fish - Oncorhynchus mykiss - Juvenile (Fledgling, Hatchling, Weanling)	96 hours
Propylene glycol	Acute EC50 >1000 mg/L Fresh water	Daphnia - Daphnia magna - <24 hours	48 hours
	Acute LC50 1020000 ug/L Fresh water	Crustaceans - Ceriodaphnia dubia - <24 hours	48 hours
	Acute LC50 710000 ug/L Fresh water	Fish - Pimephales promelas - <=7 days	96 hours

- Conclusion/Summary** : Not available.

Other ecological information

Persistence/degradability

- Conclusion/Summary** : Not available.

Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
hydrogen peroxide solution	-1.36	-	low
Propylene glycol	-0.92	-	low

- Other adverse effects** : No known significant effects or critical hazards.

13. Disposal considerations

- Methods of disposal** : Dispose of according to all federal, state and local applicable regulations.

14. Transport information

Regulation	UN number	Proper shipping name	Classes	PG*	Label	Additional information
ADG	Not regulated.	-	-	-		-
ADR	Not regulated.	-	-	-		-
IMDG	Not regulated.	-	-	-		-
IATA	Not regulated.	-	-	-		-

14. Transport information

PG* : Packing group

15. Regulatory information

[Standard for the Uniform Scheduling of Drugs and Poisons](#)

Not regulated.

[Control of Scheduled Carcinogenic Substances](#)

Not available.

No listed substance

[Australia inventory \(AICS\)](#) : All components are listed or exempted.

16. Other information

[Date of issue](#) : 7/25/2012.

Disclaimer

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.