

# Material Safety Data Sheet



Quantum 5 Firm Choices Advanced Alkaline Perm for Normal, Resistant or Tinted Hair - Neutralizer

## 1. Identification of the material and supplier

### Names

- Product name** : Quantum 5 Firm Choices Advanced Alkaline Perm for Normal, Resistant or Tinted Hair - Neutralizer
- 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** : Xn; R20
- Risk phrases** : R20- Harmful by inhalation.
- Safety phrases** : S2- Keep out of the reach of children.  
S46- If swallowed, seek medical advice immediately and show this container or label.
- Statement of hazardous/dangerous nature** : HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS.

NOT EXPECTED TO PRODUCE SIGNIFICANT ADVERSE HEALTH EFFECTS WHEN THE RECOMMENDED INSTRUCTIONS FOR USE ARE FOLLOWED. Additional information on toxicological endpoints is available from the supplier upon request

## 3. Composition/information on ingredients

**Mixture** : Yes.

Ingredient name	CAS number	Concentration
hydrogen peroxide solution	7722-84-1	2.20
Oxirane, 2-methyl-, polymer with oxirane, monobutyl ether	9038-95-3	0.27

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. Have conscious person drink several glasses of water or milk. Do not induce vomiting. Get medical attention.
- 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). Avoid exposure.
- Advice to doctor** : No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

## 5. Fire-fighting measures

- Extinguishing media** : Extinguish fire using an agent suitable for the surrounding fire.
- Special exposure hazards** : None known.
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## 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

<b>Ingredient name</b>	<b>Exposure limits</b>
hydrogen peroxide solution	<b>Safe Work Australia (Australia, 8/2005).</b> TWA: 1.4 mg/m <sup>3</sup> 8 hour(s). TWA: 1 ppm 8 hour(s).

- 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** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts.
- Hands** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
- Respiratory** : Chemical splash goggles. Protective clothing must be worn.
- Skin** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- 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** : Characteristic.
- Boiling point** : >100°C (>212°F)
- Relative density** : 1.004 to 1.01
- Density** : 1.1 to 2.1 g/cm<sup>3</sup>

## 9. Physical and chemical properties

- Flash point** : Closed cup: Not applicable.  
**pH** : 3 to 4  
**Solubility** : Soluble in the following materials: cold water.  
**Flame duration** : Not applicable.

## 10. Stability and reactivity

- Chemical stability** : The product is stable.  
**Possibility of hazardous reactions** : Under normal conditions of storage and use, hazardous reactions will not occur.  
**Conditions to avoid** : No specific data.  
**Materials to avoid** : No specific data.  
**Hazardous decomposition products** : Contaminated product generates oxygen gas pressure build-up

## 11. Toxicological information

### Potential acute health effects

- Inhalation** : Harmful by inhalation.  
**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/m <sup>3</sup>	4 hours
	LD50 Dermal	3 g/kg	-
	LD50 Oral	376 mg/kg	-
Oxirane, 2-methyl-, polymer with oxirane, monobutyl ether	LC50 Inhalation Vapor	147 mg/m <sup>3</sup>	4 hours
	LD50 Dermal	>20 g/kg	-
	LD50 Oral	5 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	-
Oxirane, 2-methyl-, polymer with oxirane, monobutyl ether	Eyes - Severe irritant	-	50 milligrams	-
	Skin - Mild irritant	-	500 milligrams	-

- 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

- Conclusion/Summary** : Not available.

### Other ecological information

#### Persistence/degradability

- Conclusion/Summary** : Not available.

#### Bioaccumulative potential

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
hydrogen peroxide solution	-1.36	-	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
<b>ADG</b>	Not regulated.	-	-	-		-
<b>ADR</b>	Not regulated.	-	-	-		-
<b>IMDG</b>	Not regulated.	-	-	-		-
<b>IATA</b>	Not regulated.	-	-	-		-

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 ingredients that are not contained in the AICS database are below registration thresholds.

## 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.