Material Safety Data Sheet



Quantum 2 Steps 2 Straight Curl Eliminator - Step 2

1. Product and company identification

Quantum 2 Steps 2 Straight Curl Eliminator - Step 2 **Product name**

Manufacturer Zotos International, INC. 100 Tokeneke Road.

Darien, CT 06820 www.zotos.com

Validation date : 7/21/2012.

In case of emergency (800) 584-8038 [24 Hours]

Telephone number (203) 656-7859 [8:30 a.m. - 5:00 p.m.]

Contact: CHEMTREC 1-800-424-9300 [US/Canada 24 Hours] **Transportation Emergency**

Product type : Liquid.

2. Hazards identification

Emergency overview

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

Color : Off-white. Odor Characteristic.

Hazard statements CAUSES EYE AND SKIN IRRITATION.

Do not breathe vapor or mist. Do not eat, crink or smoke when using this product. **Precautionary measures**

Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.

This material is considered hazardous by the OSHA Hazard Communication Standard **OSHA/HCS** status

(29 CFR 1910.1200).

Potential acute health effects

Inhalation : None known. Ingestion Mild irritant

Skin Prolonged exposure may result in skin burns and ulcerations.

Prolonged or repeated contact with skin or mucous membrane may result in irritation Eyes

symptoms, such as redness, blistering, dermatitis etc.

Potential chronic health effects

Chronic effects : Contains material that may cause target or an damage, based on animal data.

Carcinogenicity No known significant effects or critical hazards. Mutagenicity No known significant effects or critical hazards. 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**

Over-exposure signs/symptoms

: No specific data. Inhalation : No specific data. Ingestion

Adverse symptoms may include the following: Skin

> irritation redness

Adverse symptoms may include the following: **Eves**

> pain or irritation watering redness

Medical conditions

aggravated by over-

exposure

Pre-existing disorders involving any target organs mentioned in this MSDS as being at

risk may be aggravated by over-exposure to this product.

1/8 4734A

Quantum 2 Steps 2 Straight Curl Eliminator - Step 2

2. Hazards identification

See toxicological information (Section 11)

3. Composition/information on ingredients

Name	CAS number	%
hexadecan-1-ol	36653-82-4	3.2026
hydrogen peroxide	7722-84-1	2.1788
Decacyclopentasiloxane	541-02-6	1.3
propane-1,2-diol	57-55-6	1.0419

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

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

: Wash the contaminated skin gently and tho oughly with running water and non-abrasive Skin contact

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

Call physician immediately. Have conscious person drink several glasses of water or Ingestion

milk. Do not induce vomiting. Get medical attention.

Use suitable protective equipment (section 3). Avoid exposure. **Protection of first-aiders** : In case of inhalation of decomposition products in a fire, symptoms may be delayed. Notes to physician The exposed person may need to be kept under medical surveillance for 48 hours.

5. Fire-fighting measures

Flammability of the product None known.

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

Promptly isolate the scene by removing all persons from the vicinity of the incident if Special exposure hazards there is a fire. No action shall be taken involving any personal risk or without suitable

training. : None. Special fire-fighting

procedures

Decomposition products may include the following materials: **Hazardous thermal** decomposition products

carbon dioxide carbon monoxide nitrogen oxides

halogenated compounds metal oxide/oxides

: Fire-fighters should wear appropriate protective equipment and self-contained breathing Special protective apparatus (SCBA) with a full face-piece operated in positive pressure mode. equipment for fire-fighters

6. Accidental release measures

Personal precautions Rubber gloves.

Store in a cool, well-ventilated, dry place. NOT EXPECTED TO PRODUCE **Environmental precautions** SIGNIFICANT ADVERSE HEALTH EFFECTS WHEN THE RECOMMENDED

INSTRUCTIONS FOR USE ARE FOLLOWED.

Containers that have been opened must be carefully resealed and kept upright to Methods for cleaning up 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

Ingredient	Exposure limits	
hydrogen peroxide	ACGIH TLV (United States TWA: 1 ppm 8 hour(s). TWA: 1.4 mg/m³ 8 hour(s) OSHA PEL 1989 (United S TWA: 1 ppm 8 hour(s). TWA: 1.4 mg/m³ 8 hour(s). NIOSH REL (United States TWA: 1 ppm 10 hour(s). TWA: 1.4 mg/m³ 10 hour(s). TWA: 1 ppm 8 hour(s). TWA: 1 ppm 8 hour(s). TWA: 1.4 mg/m³ 8 hour(s).	ates, 3/1989). , 6/2009).). 6/2010).
propane-1,2-diol	AIHA WEEL (United States TWA: 10 mg/m³ 8 hour(s).	i, 5/2010).

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 neces sity to use respiratory protective equipment.

Engineering measures

In case of insufficient ventilation, wear suitable respiratory equipment.

Hygiene measures Personal protection When using do not eat, drink or smoke.

Respiratory

: Chemical splash goggles. Protective clothing must be worn.

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

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.

Skin

Hq

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.

: Not available. Other protection

9. Physical and chemical properties

: Liquid. [Viscous liquid.] Physical state Closed cup: Not applicable. Flash point

Color Off-white. Odor Characteristic.

: >100°C (>212°F) **Boiling/condensation point** Relative density : 1.004 to 1.01

: Soluble in the following materials: cold water. Solubility

> 3/8 4734A

Quantum 2 Steps 2 Straight Curl Eliminator - Step 2

10. Stability and reactivity

Chemical stability : The product is stable. Conditions to avoid : No specific data.

Incompatible materials : No specific data.

Hazardous decomposition : Contaminated product generates oxygen gas pressure build-up products

Possibility of hazardous

: Under normal conditions of storage and use, hazardous reactions will not occur. reactions

Hazardous polymerization : Will not occur.

11. Toxicological information

Acute toxicity

Product/ingredient name	Result	Dose	Exposure
Decacyclopentasiloxane	LD50 Oral	>24134 mg/kg	-
hexadecan-1-ol	LD50 Oral	5 g/kg	-
propane-1,2-diol	LD50 Dermal	20800 mg/kg	-
	LD50 Oral	20 g/kg	-

Conclusion/Summary

: Not available.

Chronic toxicity

Conclusion/Summary : Not available.

Irritation/Corrosion

Product/ingredient name	Result	Score	Exposure	Observation
Decacyclopentasiloxane	Eyes - Mild irritant	-	24 hours 500	-
			milligrams	
	Skin - Mild irritant]_	24 hours 500	_
		1	milligrams	
nexadecan-1-ol	Eyes - Mild irritant	-	82 milligrams	_
	Skin - Mild irritant	-	100 Percent	-
	Skin - Moderate irritant	1-	24 hours 100	-
			milligrams	
	Skin - Mild irritant	-	72 hours 75	-
			milligrams	
			Intermittent	
	Skin - Severe irritant	-	0.2 Percent	-
	Skin - Mild irritant	-	48 hours 50	-
			milligrams	
	Skin - Severe irritant	-	24 hours 100	-
	Į.		milligrams	
	Skin - Mild irritant	-	24 hours 2600	-
	Carrier to the carrie		milligrams	
	Skin - Severe irritant]-	24 hours 100	-
			milligrams	
nydrogen peroxide	Eyes - Severe irritant	-	1 milligrams	-
propane-1,2-diol	Eyes - Mild irritant	-	24 hours 500	-
	[1	milligrams	
	Eyes - Mild irritant	-	100	-
	01: 14 1		milligrams	
	Skin - Moderate irritant	-	96 hours 30	-
			Percent	
	Oldin Mild instant		continuous	
	Skin - Mild irritant	}-	168 hours 500	-
	Okin Madanata initaat		milligrams	
	Skin - Moderate irritant	-	72 hours 104	-
	4		milligrams	
	Skin - Mild irritant		Intermittent	
	Skiri - Ivilia Irritant	-	96 hours 30 Percent	-

4734A 4/8 Quantum 2 Steps 2 Straight Curl Eliminator - Step 2

11. Toxicological information

Conclusion/Summary

: Not available.

Sensitizer

Conclusion/Summary

: Not available.

Carcinogenicity

Conclusion/Summary

: No carcinogenic effect.

Classification

Product/ingredient name	ACGIH	IARC	EPA	NIOSH	NTP	OSHA
hydrogen peroxide	A3	3	-	-	-	-

Mutagenicity

Conclusion/Summary

: Not available.

Teratogenicity

Conclusion/Summary

: Not available.

Reproductive toxicity

Conclusion/Summary

: Not available.

12. Ecological information

Ecotoxicity

: No known significant effects or critical haza ds.

Aquatic ecotoxicity

Product/ingredient name	Result	Species	Exposure
hydrogen peroxide	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
propane-1,2-diof	Acute EC50 >1000 mg/L Fresh water	Daphnía - Daphnía magna - <24 hcurs	48 hours
	Acute LC50 1020000 ug/L Fresh water	Crustaceans - Ceriodaphnia	48 hours
	Acute LC50 710000 ug/L Fresh water	Fish - Pimephales promelas - <::7 days	96 hours

Conclusion/Summary

: Not available.

Persistence/degradability

Conclusion/Summary

: Not available.

Other adverse effects

: No known significant effects or critical hazards.

13. Disposal considerations

Waste disposal

: Dispose of according to all federal, state and local applicable regulations.

Contaminated packaging

: Waste must be disposed of according to applicable regulations. This material and its container must be disposed of as hazardous waste.

Waste residues information

Flush with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids.

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

4734A 5/8

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label	Additional information
DOT Classification	Not regulated.	-	-	-		-
TDG Classification	Not regulated.	-	-	-		
Mexico Classification	Not regulated.	-	-	-		-
ADR/RID Class	Not regulated.	-	-	-		-
IMDG Class	Not regulated.	-	-	-		-
IATA-DGR Class	Not regulated.	-	-	-		•

PG*: Packing group

15. Regulatory information

HCS Classification

: Irritating material Target organ effects

U.S. Federal regulations

: TSCA : Exempt

SARA 302/304/311/312 extremely hazardous substances: Hydrogen Peroxide,

aqueous solution

SARA 302/304 emergency planning and notification: Hydrogen Peroxide, aqueous

SARA 302/304/311/312 hazardous chemicals: propane-1,2-diol; Hydrogen Peroxide,

aqueous solution

SARA 311/312 MSDS distribution - chemical inventory - hazard identification: propane-1,2-diol: Immediate (acute) health hazard, Delayed (chronic) health hazard; Hydrogen Peroxide, aqueous solution: Fire hazard, reactive, Immediate (acute) health

hazard, Delayed (chronic) health hazard

Clean Water Act (CWA) 311: Phosphoric Acid

Clean Air Act Section 112(b) Hazardous Air

: Not listed

Pollutants (HAPs)

Clean Air Act Section 602 : Not listed Class | Substances

Clean Air Act Section 602

Class II Substances

: Not listed

DEA List I Chemicals (Precursor Chemicals)

: Not listed

DEA List II Chemicals (Essential Chemicals) : Not listed

State regulations

Massachusetts

: The following components are listed: HYDROGEN PEROXIDE

New York

: The following components are listed: Hydrogen peroxide

New Jersey

The following components are listed: HYD ROGEN PEROXIDE; PROPYLENE GLYCOL;

1.2-PROPANEDIOL

Pennsylvania

: The following components are listed: HYD ROGEN PEROXIDE (CONC > 52 PERCENT);

1,2-PROPANEDIOL

6/8 4734A

15. Regulatory information

California Prop. 65

CALIFORNIA PROPOSITION 65: The following statement is made in order to comply with the California Safe Drinking Water and Toxic Enforcement Act of 1986. This product is not known to the State of California to cause cancer.

Canada inventory

International regulations

Chemical Weapons

Convention List Schedule I

Chemicals

Chemical Weapons Convention List Schedule

II Chemicals

Chemical Weapons Convention List Schedule

III Chemicals

: Not determined.

: Not listed

: Not listed

: Not listed

16. Other information

Hazardous Material Information System (U.S.A.)



Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks Although HMIS® ratings are not required on MSDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program, HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

National Fire Protection Association (U.S.A.)



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Notice to reader

4734A

7/8

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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.

4734A **8/8**