Material Safety Data Sheet

Warm & Gentle Acid Perm for Normal Hair - Activator



1. Product and company identification

Product name : Warm & Gentle Acid Perm for Normal Hair - Activator

Manufacturer : Zotos International, INC.

100 Tokeneke Road, Darien, CT 06820 www.zotos.com

Validation date : 7/26/2012.

<u>In case of emergency</u> (800) 584-8038 [24 Hours]

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

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

Product type : Liquid.

2. Hazards identification

Emergency overview

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

Color : Clear. Hazy
Odor : Mild. Sulfurous.

Hazard statements : MAY CAUSE EYE AND SKIN IRRITATION.

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

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

OSHA/HCS status : None.

Potential acute health effects

Inhalation : MAY CAUSE RESPIRATORY TRACT IRRITATION.

Ingestion : Mild irritant

Skin : May cause skin irritation.

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

symptoms, such as redness, blistering, dermatitis etc.

Potential chronic health effects

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

Carcinogenicity
 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.
 No known significant effects or critical hazards.

Over-exposure : None identified.

signs/symptoms

Medical conditions : None.

aggravated by over-

exposure

See toxicological information (Section 11)

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3. Composition/information on ingredients

Name	CAS number	%
glycerol	56-81-5	19.98

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

Eye contact : Flush with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Seek medical attention.

: Wash contaminated skin with soap and water. Remove contaminated clothing and Skin contact

shoes. Wash clothing before reuse.

Inhalation Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get

medical attention if you feel unwell.

Ingestion : Get medical attention immediately.

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

Notes to physician : Treat symptomatically.

5. Fire-fighting measures

Flammability of the product

Extinguishing media

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

Special exposure hazards

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

training.

Special fire-fighting procedures

: None.

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

carbon dioxide carbon monoxide sulfur oxides

Special protective equipment for fire-fighters : None known.

6. Accidental release measures

Personal precautions

: Wear suitable protective clothing, gloves and eye/face protection.

Environmental precautions

: If the product contaminates lakes, rivers, or sewers, inform the appropriate authorities in accordance with local regulations.

Methods for cleaning up

: Wear alkali-resistant protective clothing. Hazard of slipping on spilled product. Use absorbent chemicals or dry sand. Use a tool to scoop up solid or absorbed material and place into appropriate labeled waste container. Wash with plenty of soap and water.

7. Handling and storage

Handling Storage

- : Keep container closed. Avoid contact with skin and eyes. Do not breathe dust.
- : 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.

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8. Exposure controls/personal protection

Ingredient	Exposure limits
	ACGIH TLV (United States, 2/2010). TWA: 10 mg/m³ 8 hour(s). Form: Inhalable fraction OSHA PEL 1989 (United States, 3/1989). TWA: 5 mg/m³ 8 hour(s). Form: Respirable fraction TWA: 10 mg/m³ 8 hour(s). Form: Total dust OSHA PEL (United States, 6/2010). TWA: 5 mg/m³ 8 hour(s). Form: Respirable fraction TWA: 15 mg/m³ 8 hour(s). Form: Total dust

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.

Engineering measures Hygiene measures

In case of insufficient ventilation, wear suitable respiratory equipment.

: Avoid contact with skin and eyes. If in eyes or on skin, rinse well with water. When using do not eat, drink or smoke.

Personal protection

Respiratory : In case of insufficient ventilation, wear suitable respiratory equipment.

: Wear suitable gloves **Hands** : Wear eye/face protection. Eyes

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.

: Under normal conditions of storage and use, hazardous decomposition products should

Other protection : Not available.

Physical and chemical properties

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

Color : Clear. Hazy Odor : Mild. Sulfurous. **Boiling/condensation point** : >212°C (>413.6°F)

Relative density : 1.2 to 1.4

10. Stability and reactivity

Chemical stability : Stable under recommended storage and handling conditions (see section 7).

Conditions to avoid Not available. Incompatible materials : No specific data.

Hazardous decomposition products

not be produced. : Not available.

Possibility of hazardous reactions

 Not available. **Hazardous polymerization**

11. Toxicological information

Acute toxicity

Product/ingredient name	Result	Dose	Exposure
glycerol	LD50 Oral	12600 mg/kg	-

Conclusion/Summary : Not available.

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11. Toxicological information

Chronic toxicity

Conclusion/Summary

: Not available.

Irritation/Corrosion

Product/ingredient name	Result	Score	Exposure	Observation
glycerol	Eyes - Mild irritant	-	24 hours 500 milligrams	-
	Skin - Mild irritant	-	24 hours 500 milligrams	-

Conclusion/Summary

: Not available.

Sensitizer

Conclusion/Summary : N

: Not available.

Carcinogenicity

Conclusion/Summary

: No carcinogenic effect.

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 hazards.

Aquatic ecotoxicity

Product/ingredient name	Result	Species	Exposure
glycerol	Acute LC50 54 ml/L Fresh water	Fish - Oncorhynchus mykiss - 0.9	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.

eyelid

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.

14. Transport information

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14. Transport information

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 : Target organ effectsU.S. Federal regulations : TSCA : Exempt

SARA 302/304/311/312 extremely hazardous substances: No products were found. SARA 302/304 emergency planning and notification: No products were found.

SARA 302/304/311/312 hazardous chemicals: glycerol

SARA 311/312 MSDS distribution - chemical inventory - hazard identification:

glycerol: Immediate (acute) health hazard, Delayed (chronic) health hazard

Clean Air Act Section 112(b) Hazardous Air

Pollutants (HAPs)

Clean Air Act Section 602 : Not listed

Class I Substances

Clean Air Act Section 602

Class II Substances

: Not listed

Not listed

: Not listed

DEA List I Chemicals
(Procursor Chemicals)

(Precursor Chemicals)

DEA List II Chemicals (Essential Chemicals)

: Not listed

State regulations

Massachusetts : The following components are listed: GLYCERINE MIST

New York : None of the components are listed.

New Jersey : The following components are listed: GLYCERIN; 1,2,3-PROPANETRIOL

Pennsylvania: The following components are listed: 1,2,3-PROPANETRIOL

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 : All components are listed or exempted.

International regulations

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15. Regulatory information

Chemical Weapons : Not listed

Convention List Schedule I

Chemicals

Chemical Weapons

Convention List Schedule

II Chemicals

Chemical Weapons

Convention List Schedule

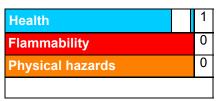
III Chemicals

: 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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Indicates information that has changed from previously issued version.

Notice to reader

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.

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