Material Safety Data Sheet

Bain de Terre Naturage 2 Acid Balanced Perm for Normal, Tinted, Highlift Tinted, Highlighted and Bleached Hair-Neutralizer

1. Product and company identification

Product name : Bain de Terre Naturage 2 Acid Balanced Perm for Normal, Tinted, Highlift Tinted, Highlighted and Bleached Hair-Neutralizer

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

Validation date : 9/17/2012.

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

Telephone number (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 : Off-white.

Odor : Fragrant.

Hazard statements : CAUSES EYE IRRITATION. MAY BE HARMFUL IF SWALLOWED. MAY CAUSE SKIN IRRITATION.

Precautionary measures : Do not breathe vapor or mist. Do not ingest. 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 : None known.

Ingestion : Mild irritant

Skin : Prolonged exposure may result in skin burns and ulcerations.

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 : No known significant effects or critical hazards.

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 : None identified.

Medical conditions aggravated by over-exposure : None.

See toxicological information (Section 11)

3. Composition/information on ingredients

United States

Name	CAS number	%
hydrogen peroxide	7722-84-1	2.4
Monoethanolamine	141-43-5	1.899

Canada

Name	CAS number	%
hydrogen peroxide	7722-84-1	2.4
Monoethanolamine	141-43-5	1.899

Mexico

					Classification			
Name	CAS number	UN number	%	IDLH	H	F	R	Special
Monoethanolamine	141-43-5	Not available.	1.899	30 ppm	2	1	0	-
hydrogen peroxide	7722-84-1	Not available.	2.4	75 ppm	2	0	0	-

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

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

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.

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

Notes to physician : Treat symptomatically.

5. Fire-fighting measures

Flammability of the product : None.

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.

Hazardous thermal decomposition products : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
nitrogen oxides
sulfur oxides
halogenated compounds

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

United States

Ingredient	Exposure limits
hydrogen peroxide	**ACGIH TLV (United States, 2/2010).** TWA: 1 ppm 8 hour(s). TWA: 1.4 mg/m³ 8 hour(s). **OSHA PEL 1989 (United States, 3/1989).** TWA: 1 ppm 8 hour(s). TWA: 1.4 mg/m³ 8 hour(s). **NIOSH REL (United States, 6/2009).** TWA: 1 ppm 10 hour(s). TWA: 1.4 mg/m³ 10 hour(s). **OSHA PEL (United States, 6/2010).** TWA: 1 ppm 8 hour(s). TWA: 1.4 mg/m³ 8 hour(s).
Monoethanolamine	**ACGIH TLV (United States, 2/2010).** TWA: 3 ppm 8 hour(s). TWA: 7.5 mg/m³ 8 hour(s). STEL: 6 ppm 15 minute(s). STEL: 15 mg/m³ 15 minute(s). **OSHA PEL 1989 (United States, 3/1989).** TWA: 3 ppm 8 hour(s). TWA: 8 mg/m³ 8 hour(s). STEL: 6 ppm 15 minute(s). STEL: 15 mg/m³ 15 minute(s). **NIOSH REL (United States, 6/2009).** TWA: 3 ppm 10 hour(s). TWA: 8 mg/m³ 10 hour(s). STEL: 6 ppm 15 minute(s). STEL: 15 mg/m³ 15 minute(s). **OSHA PEL (United States, 6/2010).** TWA: 3 ppm 8 hour(s). TWA: 6 mg/m³ 8 hour(s).

Canada

Occupational exposure limits		TWA (8 hours)			STEL (15 mins)			Ceiling			
Ingredient	List name	ppm	mg/m³	Other	ppm	mg/m³	Other	ppm	mg/m³	Other	Notations

8. Exposure controls/personal protection

Monoethanolamine	US ACGIH 2/2010	3	7.5	-	6	15	-	-	-	-	
	AB 4/2009	3	7.5	-	6	15	-	-	-	-	[3]
	BC 9/2010	3	-	-	6	-	-	-	-	-	
	ON 7/2010	3	7.5	-	6	15	-	-	-	-	
	QC 6/2008	3	7.5	-	6	15	-	-	-	-	
hydrogen peroxide	US ACGIH 2/2010	1	1.4	-	-	-	-	-	-	-	
	AB 4/2009	1	1.4	-	-	-	-	-	-	-	[3]
	BC 9/2010	1	-	-	-	-	-	-	-	-	
	ON 7/2010	1	1.4	-	-	-	-	-	-	-	
	QC 6/2008	1	1.4	-	-	-	-	-	-	-	

[3]Skin sensitization

Mexico

Occupational exposure limits

Ingredient	Exposure limits
hydrogen peroxide	**NOM-010-STPS (Mexico, 9/2000).** LMPE-PPT: 1 ppm 8 hour(s). LMPE-PPT: 1.5 mg/m³ 8 hour(s). LMPE-CT: 3 mg/m³ 15 minute(s). LMPE-CT: 2 ppm 15 minute(s).
Monoethanolamine	**NOM-010-STPS (Mexico, 9/2000).** LMPE-PPT: 3 ppm 8 hour(s). LMPE-PPT: 8 mg/m³ 8 hour(s). LMPE-CT: 15 mg/m³ 15 minute(s). LMPE-CT: 6 ppm 15 minute(s).

Consult local authorities for acceptable exposure limits.

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

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

Personal protection

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

Hands : None.

Eyes : None.

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.

Other protection : Not available.

9. Physical and chemical properties

Physical state : Liquid. [Viscous liquid.]

Flash point : Closed cup: Not applicable.

Color : Off-white.

Odor : Fragrant.

pH : 3 to 4

Boiling/condensation point : >100°C (>212°F)

Relative density : 1.004 to 1.01

10. Stability and reactivity

Chemical stability : Not available.

Conditions to avoid : Not available.

Incompatible materials : Reducing agents metals

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

Possibility of hazardous reactions : Not available.

Hazardous polymerization : Not available.

11. Toxicological information

United States

Acute toxicity

Product/ingredient name	Result	Dose	Exposure
Monoethanolamine	LD50 Oral	1720 mg/kg	-

Conclusion/Summary : Not available.

Chronic toxicity

Conclusion/Summary : Not available.

Irritation/Corrosion

Product/ingredient name	Result	Score	Exposure	Observation
Monoethanolamine	Eyes - Severe irritant	-	250 Micrograms	-
	Skin - Moderate irritant	-	505 milligrams	-
hydrogen peroxide	Eyes - Severe irritant	-	1 milligrams	-

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.

Canada

Acute toxicity

Product/ingredient name	Result	Dose	Exposure
Monoethanolamine	LD50 Oral	1720 mg/kg	-

Conclusion/Summary : Not available.

Chronic toxicity

Conclusion/Summary : Not available.

Irritation/Corrosion

11. Toxicological information

Product/ingredient name	Result	Score	Exposure	Observation
Monoethanolamine	Eyes - Severe irritant	-	250 Micrograms	-
	Skin - Moderate irritant	-	505 milligrams	-
hydrogen peroxide	Eyes - Severe irritant	-	1 milligrams	-

Conclusion/Summary : Not available.

Sensitizer

Conclusion/Summary : Not available.

Carcinogenicity

Conclusion/Summary : Not available.

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.

Mexico

Acute toxicity

Product/ingredient name	Result	Dose	Exposure
Monoethanolamine	LD50 Oral	1720 mg/kg	-

Conclusion/Summary : Not available.

Chronic toxicity

Conclusion/Summary : Not available.

Irritation/Corrosion

Product/ingredient name	Result	Score	Exposure	Observation
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	Skin - Moderate irritant	-	505 milligrams	-
hydrogen peroxide	Eyes - Severe irritant	-	1 milligrams	-

Conclusion/Summary : Not available.

Sensitizer

Conclusion/Summary : Not available.

Carcinogenicity

Conclusion/Summary : Not available.

Classification

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

Mutagenicity

Conclusion/Summary : Not available.

Teratogenicity

Conclusion/Summary : Not available.

11. Toxicological information

Reproductive toxicity

Conclusion/Summary : Not available.

12. Ecological information

Ecotoxicity : No known significant effects or critical hazards.

United States

Aquatic ecotoxicity

Product/ingredient name	Result	Species	Exposure
Monoethanolamine	Acute EC50 80000 ug/L Fresh water	Algae - Isochrysis galbana	96 hours
	Acute LC50 >100000 ug/L Marine water	Crustaceans - Crangon crangon - Adult	48 hours
	Acute LC50 150 mg/L Fresh water	Fish - Oncorhynchus mykiss - Yolk-sac fry	96 hours
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

Conclusion/Summary : Not available.

Persistence/degradability

Conclusion/Summary : Not available.

Canada

Aquatic ecotoxicity

Product/ingredient name	Result	Species	Exposure
Monoethanolamine	Acute EC50 80000 ug/L Fresh water	Algae - Isochrysis galbana	96 hours
	Acute LC50 >100000 ug/L Marine water	Crustaceans - Crangon crangon - Adult	48 hours
	Acute LC50 150 mg/L Fresh water	Fish - Oncorhynchus mykiss - Yolk-sac fry	96 hours
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

Conclusion/Summary : Not available.

Persistence/degradability

Conclusion/Summary : Not available.

Mexico

Aquatic ecotoxicity

Product/ingredient name	Result	Species	Exposure

12. Ecological information

Monoethanolamine	Acute EC50 80000 ug/L Fresh water	Algae - Isochrysis galbana	96 hours
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	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.

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.

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

United States

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 solution
SARA 302/304/311/312 hazardous chemicals: Hydrogen Peroxide, aqueous solution; Monoethanolamine
SARA 311/312 MSDS distribution - chemical inventory - hazard identification: Hydrogen Peroxide, aqueous solution: Fire hazard, reactive, Immediate (acute) health hazard, Delayed (chronic) health hazard; Monoethanolamine: Fire hazard, Immediate (acute) health hazard, Delayed (chronic) health hazard

Clean Water Act (CWA) 311: ammonia; Phosphoric Acid

Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs) : Not listed

Clean Air Act Section 602 Class I Substances : Not listed

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: ETHANOLAMINE; HYDROGEN PEROXIDE

New York : The following components are listed: Hydrogen peroxide

New Jersey : The following components are listed: ETHANOLAMINE; ETHANOL, 2-AMINO-; HYDROGEN PEROXIDE

Pennsylvania : The following components are listed: ETHANOL, 2-AMINO-; HYDROGEN PEROXIDE (CONC > 52 PERCENT)

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.

United States inventory (TSCA 8b) : Not determined.

Canada

WHMIS (Canada) : Class D-1B: Material causing immediate and serious toxic effects (Toxic).
Class E: Corrosive material

Canadian lists

Canadian NPRI : None of the components are listed.

CEPA Toxic substances : None of the components are listed.

Canada inventory : Not determined.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

Mexico

Classification :

15. Regulatory information

International regulations

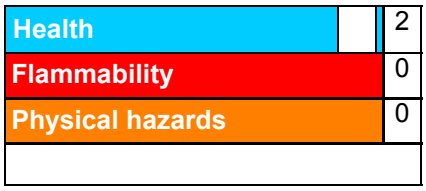
Chemical Weapons Convention List Schedule I Chemicals : Not listed

Chemical Weapons Convention List Schedule II Chemicals : Not listed

Chemical Weapons Convention List Schedule III Chemicals : 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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Prepared by : Regulatory Affairs Group

Indicates information that has changed from previously issued version.

16. Other information

Notice to reader

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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.