# Material Safety Data Sheet





## 1. Product and company identification

**Product name** Design Freedom Plus Alkaline Perm For Normal & Tinted Hair - Waving Lotion

Manufacturer Zotos International, INC

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

Validation date 9/12/2012.

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.

Color : Clear. Odor : Fragrant.

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

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.

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

(29 CFR 1910.1200).

Potential acute health effects

Inhalation : MAY CAUSE RESPIRATORY TRACT IRRITATION.

Ingestion : Mild irritant

Skin : May cause sensitization by skin contact.

: 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 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

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

Skin : Adverse symptoms may include the following:

> irritation redness

: Adverse symptoms may include the following: Eyes

> pain or irritation watering redness

**Medical conditions** aggravated by overexposure

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

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

4124A 1/8

### 2. Hazards identification

See toxicological information (Section 11)

## 3. Composition/information on ingredients

### **United States**

Name	CAS number	%
Monoethanolamine	141-43-5	2.83

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 contaminated skin with soap and water.

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). Avoid exposure.

Notes to physician

: In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

## 5. Fire-fighting measures

Flammability of the product

Special exposure hazards

: In a fire or if heated, a pressure increase will occur and the container may burst.

Extinguishing media

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

: 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 nitrogen oxides sulfur oxides

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** 

: Wear protective gloves.

**Environmental precautions** 

: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental

pollution (sewers, waterways, soil or air).

**Methods for cleaning up** : Use a water rinse for final clean-up.

## 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** 

: Avoid increased storage temperature.

4124A **2/8** 

## 8. Exposure controls/personal protection

### **United States**

Ingredient	Exposure limits	
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

No exposure limit value known.

#### **Mexico**

#### Occupational exposure limits

No exposure limit value known.

### 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** 

Wear suitable gloves.

**Eyes** 

: Safety glasses.

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.

: Not available. Other protection

## 9. Physical and chemical properties

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

Color : Clear. Odor : Fragrant. Ha 8.4 to 9.3

**Boiling/condensation point** : >100°C (>212°F) : 1.06 to 1.07 Relative density

4124A 3/8

## 10. Stability and reactivity

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

Conditions to avoid : No specific data.

Incompatible materials : No specific data.

**Hazardous decomposition**: Ammonia. sulfur oxides

products

Possibility of hazardous : Not available.

reactions

## 11. Toxicological information

### **United States**

### **Acute toxicity**

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

**Conclusion/Summary** 

**Chronic toxicity** 

: Not available.

Conclusion/Summary : Not available.

**Irritation/Corrosion** 

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

**Conclusion/Summary**: Not available.

**Sensitizer** 

Conclusion/Summary : Not available.

Carcinogenicity

**Conclusion/Summary**: No carcinogenic effect.

**Mutagenicity** 

**Conclusion/Summary**: Not available.

**Teratogenicity** 

Conclusion/Summary : Not available.

**Reproductive toxicity** 

**Conclusion/Summary**: Not available.

**Canada** 

**Acute toxicity** 

**Conclusion/Summary**: Not available.

**Chronic toxicity** 

**Conclusion/Summary**: Not available.

**Irritation/Corrosion** 

**Conclusion/Summary**: Not available.

**Sensitizer** 

**Conclusion/Summary**: Not available.

**Carcinogenicity** 

**Conclusion/Summary**: Not available.

**Mutagenicity** 

**Conclusion/Summary**: Not available.

**Teratogenicity** 

**Conclusion/Summary**: Not available.

4124A **4/8** 

## 11. Toxicological information

**Reproductive toxicity** 

**Conclusion/Summary**: Not available.

**Mexico** 

**Acute toxicity** 

Conclusion/Summary : Not available.

**Chronic toxicity** 

**Conclusion/Summary**: Not available.

**Irritation/Corrosion** 

**Conclusion/Summary**: Not available.

**Sensitizer** 

**Conclusion/Summary**: Not available.

**Carcinogenicity** 

**Conclusion/Summary**: Not available.

**Mutagenicity** 

Conclusion/Summary : Not available.

**Teratogenicity** 

Conclusion/Summary : N

: Not available.

Reproductive toxicity

**Conclusion/Summary**: Not available.

## 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.

**United States** 

**Aquatic ecotoxicity** 

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

Conclusion/Summary : Not available.

Persistence/degradability

**Conclusion/Summary**: Not available.

Canada

**Aquatic ecotoxicity** 

**Conclusion/Summary**: Not available.

Persistence/degradability

**Conclusion/Summary**: Not available.

<u>Mexico</u>

Aquatic ecotoxicity

Conclusion/Summary : Not available.

Persistence/degradability

**Conclusion/Summary**: Not available.

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

4124A 5/8

## 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.

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: No products were found. SARA 302/304 emergency planning and notification: No products were found.

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

SARA 311/312 MSDS distribution - chemical inventory - hazard identification: Monoethanolamine: Fire hazard, Immediate (acute) health hazard, Delayed (chronic)

health hazard

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

4124A 6/8

## 15. Regulatory information

### **State regulations**

Massachusetts : The following components are listed: ETHANOLAMINE

**New York** : None of the components are listed.

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

Pennsylvania: The following components are listed: ETHANOL, 2-AMINO-

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

### **Canadian lists**

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 :



### **International regulations**

Chemical Weapons : Not listed

Convention List Schedule I

**Chemicals** 

Chemical Weapons : Not listed

**Convention List Schedule** 

**II Chemicals** 

Chemical Weapons

**Convention List Schedule** 

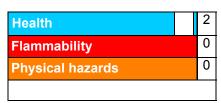
**III Chemicals** 

: 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.)



4124A **7/8** 

### 16. Other information

Reprinted with permission from NFPA 704-2001, Identification of the Hazards of Materials for Emergency Response Copyright ©1997, National Fire Protection Association, Quincy, MA 02269. This reprinted material is not the complete and official position of the National Fire Protection Association, on the referenced subject which is represented only by the standard in its entirety.

Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

Date of printing : 9/3/2013.

Date of issue : 9/12/2012.

Date of previous issue : No previous validation.

Version : 0.02

Prepared by : Regulatory Affairs Group

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.

4124A **8/8**