SAFETY DATA SHEET

Blonde Life Creme Lightener

Section 1. Identification

Product Name : Blonde Life Creme Lightener

Other means of identification : Not available.

Recommended use : Hair Care Product

Restrictions on use : Use only as directed on the product label.

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

Validation date : 2/11/2019

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 : Solid.

Section 2. Hazards identification

Emergency overview

OSHA/HCS status : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification of the substance or mixture : OXIDIZING SOLIDS - Category 3
COMBUSTIBLE DUSTS

Percentage of the mixture consisting of ingredient(s) of unknown oral toxicity: 21.1%
Percentage of the mixture consisting of ingredient(s) of unknown dermal toxicity: 98.2%
Percentage of the mixture consisting of ingredient(s) of unknown inhalation toxicity: 98.2%

GHS label elements

Hazard pictograms :

Signal word : Warning

Hazard statements : May intensify fire; oxidizer.
May form combustible dust concentrations in air.

Precautionary statements

General : Read label before use. Keep out of reach of children. If medical advice is needed, have product container or label at hand.

Prevention : Wear protective gloves. Wear eye or face protection. Keep away from heat. - No smoking. Keep away from clothing, incompatible materials and combustible materials. Take any precaution to avoid mixing with combustibles and other incompatible materials.

Response : Not applicable.

Storage : Not applicable.

Disposal : Dispose of contents and container in accordance with all local, regional, national and international regulations.

Section 2. Hazards identification

Supplemental label elements : Keep container tightly closed. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Prevent dust accumulation.

Hazards not otherwise classified : None known.

Section 3. Composition/information on ingredients

Substance/mixture : Mixture

Name	%	CAS number
dipotassium peroxodisulphate	18.83	7727-21-1
diammonium peroxodisulphate	12.34	7727-54-0
disodium metasilicate	7.35	6834-92-0
Silicic acid, sodium salt	6.24	1344-09-8
sodium 2-(dodecyloxy)-2-oxoethane-1-sulphonate	1.60	1847-58-1
tetrasodium ethylene diamine tetraacetate	1.08	64-02-8

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

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.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

Eye contact : In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Check for and remove any contact lenses. Get medical attention immediately.

Inhalation : Move affected person to fresh air. Seek immediate medical attention.

Skin contact : Wash contaminated skin with soap and water. If on clothes, remove clothes. Seek medical attention if irritation persists.

Ingestion : Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. Maintain an open airway.

Indication of immediate medical attention and special treatment needed, if necessary

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.

Specific treatments : No specific treatment.

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media : Use dry chemical powder.

Unsuitable extinguishing media : Avoid high pressure media which could cause the formation of a potentially explosible dust-air mixture.

Specific hazards arising from the chemical : Oxidizing material. May intensify fire. May form explosible dust-air mixture if dispersed.

Hazardous thermal decomposition products : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
nitrogen oxides
sulfur oxides
metal oxide/oxides

Special protective actions for fire-fighters : 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. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

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.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

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 and materials for containment and cleaning up

Small spill : Use spark-proof tools and explosion-proof equipment. Vacuum or sweep up material and place in a designated, labeled waste container.

Large spill : Use spark-proof tools and explosion-proof equipment. Vacuum or sweep up material and place in a designated, labeled waste container. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

Protective measures : Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Prevent dust accumulation. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Electrical equipment and lighting should be protected to appropriate standards to prevent dust coming into contact with hot surfaces, sparks or other ignition sources. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Keep away from clothing, incompatible materials and combustible materials. Keep away from heat.

Advice on general occupational hygiene : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Eliminate all ignition sources. Separate from oxidizing materials. Separate from reducing agents and combustible materials.

Section 8. Exposure controls/personal protection

United States

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
dipotassium peroxodisulphate	**ACGIH TLV (United States, 3/2017).** TWA: 0.1 mg/m³, (as persulfate) 8 hours.
diammonium peroxodisulphate	**ACGIH TLV (United States, 3/2017).** TWA: 0.1 mg/m³, (as persulfate) 8 hours.

Appropriate engineering controls : The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

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.

Individual protection measures

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection : None.

Skin protection

Hand protection : Wear suitable gloves.

Body protection : 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.

Section 8. Exposure controls/personal protection

Other skin protection : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Consult local authorities for acceptable exposure limits.

Section 9. Physical and chemical properties

Appearance

Physical state : Solid. [Moist solid. Paste.]

Color : White. Off-white.

Odor : Characteristic.

Aerosol product

Section 10. Stability and reactivity

Reactivity : No specific test data related to reactivity available for this product or its ingredients.

Chemical stability : The product is stable.

Possibility of hazardous reactions : Hazardous reactions or instability may occur under certain conditions of storage or use.
Conditions may include the following:
contact with combustible materials
Reactions may include the following:
risk of causing or intensifying fire

Conditions to avoid : Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Prevent dust accumulation.

Incompatible materials : Reactive or incompatible with the following materials:
oxidizing materials
combustible materials
reducing materials

Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

United States

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
dipotassium peroxodisulphate	LD50 Oral	Rat	802 mg/kg	-
diammonium peroxodisulphate	LD50 Oral	Rat	689 mg/kg	-
disodium metasilicate	LD50 Oral	Rat	1153 mg/kg	-
Silicic acid, sodium salt	LD50 Oral	Rat	1960 mg/kg	-
sodium 2-(dodecyloxy) -2-oxoethane-1-sulphonate	LD50 Oral	Rat	700 mg/kg	-
tetrasodium ethylene diamine tetraacetate	LD50 Oral	Rat	10 g/kg	-

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
disodium metasilicate	Skin - Moderate irritant	Guinea pig	-	24 hours 250 milligrams	-
	Skin - Severe irritant	Human	-	24 hours 250 milligrams	-
	Skin - Severe irritant	Rabbit	-	24 hours 250 milligrams	-
Silicic acid, sodium salt	Eyes - Severe irritant	Rabbit	-	24 hours 10 milligrams	-
	Skin - Severe irritant	Rabbit	-	24 hours 500 milligrams	-
sodium 2-(dodecyloxy) -2-oxoethane-1-sulphonate	Eyes - Mild irritant	Rabbit	-	35 milligrams	-
	Skin - Moderate irritant	Rabbit	-	0.5 Grams	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500 milligrams	-
tetrasodium ethylene diamine tetraacetate	Eyes - Moderate irritant	Rabbit	-	24 hours 100 milligrams	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500 milligrams	-

Sensitization

Not available.

Mutagenicity

Not available.

Carcinogenicity

Not available.

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Section 11. Toxicological information

Not available.

Aspiration hazard

Not available.

Information on the likely routes of exposure : Not available.

Potential acute health effects

Eye contact : No known significant effects or critical hazards.

Inhalation : No known significant effects or critical hazards.

Skin contact : No known significant effects or critical hazards.

Ingestion : No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : No specific data.

Inhalation : No specific data.

Skin contact : No specific data.

Ingestion : No specific data.

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Potential chronic health effects

Not available.

General : No known significant effects or critical hazards.

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.

Numerical measures of toxicity

Acute toxicity estimates

Not available.

Section 12. Ecological information

United States

Toxicity

Section 12. Ecological information

Product/ingredient name	Result	Species	Exposure
dipotassium peroxodisulphate	Acute EC50 2.88 mg/dm3 Fresh water	Algae - Pseudokirchneriella subcapitata	72 hours
	Acute LC50 1175000 µg/l	Crustaceans - Cyclops strenuus	48 hours
	Acute LC50 92000 µg/l	Daphnia - Daphnia magna	48 hours
diammonium peroxodisulphate	Acute LC50 170000 µg/l	Crustaceans - Cyclops strenuus	48 hours
	Acute LC50 87000 µg/l	Daphnia - Daphnia pulicaria	48 hours
disodium metasilicate	Acute EC50 33.53 mg/l Fresh water	Crustaceans - Ceriodaphnia dubia - Neonate	48 hours
	Acute LC50 2320 ppm Fresh water	Fish - Gambusia affinis - Adult	96 hours
Silicic acid, sodium salt	Acute EC50 0.4 mg/l Fresh water	Crustaceans - Ceriodaphnia dubia - Neonate	48 hours
	Acute LC50 494000 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
tetrasodium ethylene diamine tetraacetate	Acute LC50 486000 µg/l Fresh water	Fish - Lepomis macrochirus	96 hours

Persistence and degradability

Not available.

Bioaccumulative potential

Product/ingredient name	$LogP_{ow}$	BCF	Potential
tetrasodium ethylene diamine tetraacetate	5.01	1.8	low

Mobility in soil

Soil/water partition coefficient (K_{OC}) : Not available.

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

Section 13. Disposal considerations

Disposal methods : Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Care should be taken when handling emptied containers that have not been cleaned or rinsed out.

Section 14. Transport information

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label	Additional information
DOT Classification	UN1479	Oxidizing solid, n.o.s.	5.1	III		**Limited quantity** Yes. **Packaging instruction** Exceptions: 152. Non-bulk: 213. Bulk: 240. **Quantity limitation** Passenger aircraft/rail: 25 kg. Cargo aircraft: 100 kg. **Special provisions** 62, IB8, IP3, T1, TP33

Section 14. Transport information

TDG Classification	UN1479	OXIDIZING SOLID, N.O.S.. Marine pollutant (dipotassium peroxodisulphate, Silicic acid, sodium salt)	5.1	III		Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.23-2.25 (Class 5), 2.7 (Marine pollutant mark). The marine pollutant mark is not required when transported by road or rail. **Explosive Limit and Limited Quantity Index** 5 **Passenger Carrying Road or Rail Index** 25 **Special provisions** 16
Mexico Classification	UN1479	SOLIDO COMBURENTE, N. E.P.	5.1	III		**Special provisions** 223, 274
ADR/RID Class	UN1479	OXIDIZING SOLID, N.O.S.	5.1	III		**Hazard identification number** 50 **Limited quantity** LQ12 **Special provisions** 274 **Tunnel code** (E)
IMDG Class	UN1479	OXIDIZING SOLID, N.O.S.. Marine pollutant (dipotassium peroxodisulphate, Silicic acid, sodium salt)	5.1	III		The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg. **Emergency schedules** F-A, S-Q **Special provisions** 223, 274, 900
IATA-DGR Class	UN1479	Oxidizing solid, n.o.s.	5.1	III		The environmentally hazardous substance mark may appear if required by other transportation regulations. **Quantity limitation** Passenger and Cargo Aircraft: 25 kg. Packaging instructions: 516. Cargo Aircraft Only: 100 kg. Packaging instructions: 518. Limited Quantities - Passenger Aircraft: 10 kg. Packaging instructions: Y516. **Special provisions** A3

PG* : Packing group

Section 15. Regulatory information

U.S. Federal regulations : **TSCA 8(a) CDR Exempt/Partial exemption**: Not determined

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

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

SARA 302/304

Composition/information on ingredients

No products were found.

SARA 304 RQ : Not applicable.

SARA 311/312

Classification : Fire hazard

Composition/information on ingredients

Name	%	Fire hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
dipotassium peroxodisulphate	18.83	No.	No.	No.	Yes.	No.
diammonium peroxodisulphate	12.34	No.	No.	No.	Yes.	No.
disodium metasilicate	7.35	No.	No.	No.	Yes.	No.
Silicic acid, sodium salt	6.24	No.	No.	No.	Yes.	No.
sodium 2-(dodecyloxy)-2-oxoethane-1-sulphonate	1.60	No.	No.	No.	Yes.	No.
tetrasodium ethylene diamine tetraacetate	1.08	Yes.	No.	No.	Yes.	No.

SARA 313

	Product name	CAS number	%
Form R - Reporting requirements	diammonium peroxodisulphate	7727-54-0	12.34
Supplier notification	diammonium peroxodisulphate	7727-54-0	12.34

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

State regulations

Massachusetts : The following components are listed: POTASSIUM PERSULFATE; OIL MIST, MINERAL

New York : None of the components are listed.

Section 15. Regulatory information

New Jersey : The following components are listed: AMMONIUM PERSULFATE; PEROXYDISULFURIC ACID ([(HO)S(O)2]2O2), DIAMMONIUM SALT; POTASSIUM PERSULFATE; PEROXYDISULFURIC ACID, ([(HO)S(O)2]2O2), DIPOTASSIUM SALT; MINERAL OIL (UNTREATED and MILDLY TREATED); MINERAL OIL (UNTREATED and MILDLY TREATED)

Pennsylvania : The following components are listed: PEROXYDISULFURIC ACID, DIPOTASSIUM SALT; MINERAL OIL MIST

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.

Not available.

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol (Annexes A, B, C, E)

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Canada

WHMIS (Canada) : Class C: Oxidizing material.
Class D-2A: Material causing other toxic effects (Very toxic).
Class D-2B: Material causing other toxic effects (Toxic).
Class E: Corrosive material

Canadian lists

Canadian NPRI : The following components are listed: Ammonia (total); White mineral oil; White mineral oil

CEPA Toxic substances : None of the components are listed.

Canada inventory : Not determined.

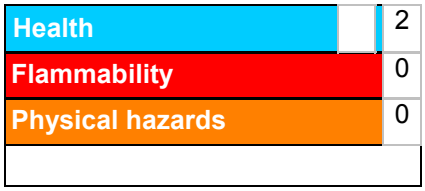
This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

Mexico

Classification :

Section 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 and the associated label are not required on SDSs or products leaving a facility 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 trademark and service mark of the American Coatings Association, Inc.

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

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

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History

Date of printing	:	2/11/2019
Date of issue/Date of revision	:	2/11/2019
Date of previous issue	:	No previous validation
Version	:	1
References	:	Not available.

Indicates information that has changed from previously issued version.

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