SAFETY DATA SHEET



1. Identification

Product identifier	REDKEN NATURAL SCIENCE COLOR EXTEND SHAMPOO	
Other means of identification		
SDS number	00-11-0000244	
Recommended use	Personal care product used on the hair for cosmetic effect.	
Recommended restrictions	None known.	
Manufacturer/Importer/Supplier/Distributor information		
US Address:	L'Oreal USA Products, Inc	
	133 Terminal Avenue	
	Clark, NJ 07066	
	USA	
Canadian Address:	L'Oreal Canada	
	4895 rue Hickmore	
	Ville St-Laurent, H4T 1K5	
	Canada	
Emergency Phone # :	1-800-535-5053 (International: 352-323-3500)	
	In Canada - 1-613-996-6666 (Canutec (*666 Cellular))	
For further Information:	1-732-499-2741	
Poison Control # :	412-390-3326	

2. Hazard(s) identification

Physical hazards	Not classified.	
Health hazards	Health hazards Skin corrosion/irritation	
	Serious eye damage/eye irritation	Category 1
OSHA defined hazards	Not classified.	
Label elements		



Signal word	Danger		
Hazard statement	Causes skin irritation. Causes serious eye damage.		
Precautionary statement			
Prevention	Wash thoroughly after handling. Wear eye protection/face protection. Wear protective gloves.		
Response	If on skin: Wash with plenty of water. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse.		
Storage	Store away from incompatible materials.		
Disposal	Dispose of waste and residues in accordance with local authority requirements.		
Hazard(s) not otherwise classified (HNOC)	None known.		

1.5% of the mixture consists of component(s) of unknown acute oral toxicity. 8.9% of the mixture consists of component(s) of unknown acute dermal toxicity. 11.62% of the mixture consists of component(s) of unknown acute inhalation toxicity.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%	
DECYL GLUCOSIDE		54549-25-6	7.42	
SODIUM COCOYL ISETHIONATE		61789-32-0	4.4	
SODIUM LAUROYL SARCOSINATE		137-16-6	3	
COCO-BETAINE		68424-94-2	2.7	

*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First-aid measures		
Inhalation	Move to fresh air. Call a physician if symptoms develop or persist.	
Skin contact	Remove contaminated clothing. Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse.	
Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.	
Ingestion	Rinse mouth. Get medical attention if symptoms occur.	
Most important symptoms/effects, acute and delayed	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Skin irritation. May cause rednes and pain.	
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.	
General information	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.	
5. Fire-fighting measures		
Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).	
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.	
Specific hazards arising from the chemical	During fire, gases hazardous to health may be formed.	
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.	
Fire fighting equipment/instructions	Move containers from fire area if you can do so without risk.	

Specific methodsUse standard firefighting procedures and consider the hazards of other involved materials.General fire hazardsNo unusual fire or explosion hazards noted.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
Methods and materials for containment and cleaning up	Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.
	Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.
Environmental precautions	Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling	Do not get this material in contact with eyes. Avoid contact with eyes, skin, and clothing. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.
Conditions for safe storage, including any incompatibilities	Store in original tightly closed container. Keep out of the reach of children. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Biological limit values	No biological exposure limits noted for the ingredient(s).	
Appropriate engineering controls	Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station. Eye wash fountain and emergency showers are recommended.	
Individual protection measure	es, such as personal protective equipment	
Eye/face protection	Wear safety glasses with side shields (or goggles) and a face shield.	
Skin protection		
Hand protection	Wear appropriate chemical resistant gloves.	
Other	Wear appropriate chemical resistant clothing.	

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

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene
considerationsAlways observe good personal hygiene measures, such as washing after handling the material
and before eating, drinking, and/or smoking. Routinely wash work clothing and protective
equipment to remove contaminants.

9. Physical and chemical properties

Appearance		
Physical state	Liquid.	
Form	Viscous Liquid	
Color	Clear.	
Odor	Not available.	
Odor threshold	Not available.	
рН	5 - 5.6	
Melting point/freezing point	Not available.	
Initial boiling point and boiling range	> 212 °F (> 100 °C)	
Flash point	> 212.0 °F (> 100.0 °C)	
Evaporation rate	Not available.	
Flammability (solid, gas)	Not applicable.	
Upper/lower flammability or explosive limits		
Flammability limit - lower (%)	Not available.	
Flammability limit - upper (%)	Not available.	
Vapor pressure	Not available.	
Vapor density	Not available.	
Specific gravity	Not available.	
Solubility(ies)		
Solubility (water)	Not available.	
Partition coefficient (n-octanol/water)	Not available.	
Auto-ignition temperature	Not available.	
Decomposition temperature	Not available.	
Viscosity	Not available.	

Other informationExplosive propertiesNot explosive.Oxidizing propertiesNot oxidizing.

10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.	
Chemical stability	Material is stable under normal conditions.	
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.	
Conditions to avoid	Contact with incompatible materials.	
Incompatible materials	Strong oxidizing agents.	
Hazardous decomposition products	No hazardous decomposition products are known.	

11. Toxicological information

Information on likely routes of exposure

Inhalation	No adverse effects due to inhalation are expected.	
Skin contact	Causes skin irritation.	
Eye contact	Causes serious eye damage.	
Ingestion	Expected to be a low ingestion hazard.	
Symptoms related to the physical, chemical and toxicological characteristics	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Skin irritation. May cause redness and pain.	

Information on toxicological effects

Acute toxicity	Not known.	
Components	Species	Test Results
COCO-BETAINE (CAS 684	124-94-2)	
<u>Acute</u>		
Dermal		
LC50	Rat	> 620 mg/kg OECD 402
Oral		
LD50	Mouse	2640 mg/kg OECD 401
DECYL GLUCOSIDE (CAS	6 54549-25-6)	
Acute		
Dermal		
LD50	Rabbit	> 2000 mg/kg OECD 402
Oral		
LD50	Rat	> 5000 mg/kg OECD 401
SODIUM COCOYL ISETHI	ONATE (CAS 61789-32-0)	
<u>Acute</u>		
Oral		
LD50	Rat	> 2000 mg/kg OECD 201
SODIUM LAUROYL SARC	OSINATE (CAS 137-16-6)	
Acute		
Inhalation		
Aerosol	Det	
LC50	Rat	1 - 5 mg/l, 4 h OECD 403
Oral	D. (
LD50	Rat	> 5000 mg/kg OECD 401
* Estimates for product	may be based on additional comp	anant data nat ahawn

* Estimates for product may be based on additional component data not shown. **Skin corrosion/irritation** Causes skin irritation.

Irritation Corro		
COCO-BETAINE		OECD 404
		Result: Irritating Species: Rabbit
DECYL GL	UCOSIDE	OECD 404
		Result: Irritating
		Species: Rabbit
SODIUM C	COCOYL ISETHIONATE	OECD 404
		Result: Slightly Irritating Species: Rabbit
SODIUM LAUROYL SARCOSINATE		OECD 404, 30% Sol.
		Result: Slightly Irritating
		Species: Rabbit
Serious eye damage/ey irritation	/e Causes serious eye c	lamage.
Irritation Corro		
DECYL GL	UCOSIDE	OECD 405
		Result: Corrosive Species: Rabbit
SODIUM C	OCOYL ISETHIONATE	OECD 405
		Result: Irritating
		Species: Rabbit
COCO-BE	TAINE	OECD 405, > 16% Result: Corrosive
		Species: Rabbit
		OECD 405, ≤ 16%
		Result: Irritating
000		Species: Rabbit
SODIUML	AUROYL SARCOSINATE	OECD 405, 30% Sol. Result: Irritating
		Species: Rabbit
Respiratory or skin ser	nsitization	
Respiratory sensit	ization Not a respiratory sense	sitizer.
Respiratory sensiti		
Skin sensitization	This product is not ex	sitizer. pected to cause skin sensitization.
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Skin sensitization Skin sensitizati SODIUM L COCO-BE DECYL GL SODIUM C Germ cell mutagenicity Mutagenicity	This product is not ex tion AUROYL SARCOSINATE TAINE UCOSIDE COCOYL ISETHIONATE No data available to i mutagenic or genotox	EU B.6 Result: Not Sensitizing Species: Guinea pig OECD 406 Result: Not Sensitizing Species: Guinea pig ndicate product or any components present at greater than 0.1% are side.
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Developmental effects		
SODIUM LAUROYL S	SARCOSINATE	>= 250 mg/kg bw/d OECD 414 Result: NOAEL
COCO-BETAINE		Species: Rat 1000 mg/kg bw/d OECD 414 Result: NOEL
SODIUM COCOYL IS	ETHIONATE	Species: Rat 1000 mg/kg bw/d OECD 414, Based on test data for structurally similar materials. Result: NOEL Species: Rat
DECYL GLUCOSIDE		1000 mg/kg bw/d OECD 414, No effects on development Species: Rat
Reproductivity		·
SODIUM COCOYL IS	ETHIONATE	1000 mg/kg bw/d OECD 421, Based on test data for structurally similar materials. Result: NOAEL Species: Rat
DECYL GLUCOSIDE		1000 mg/kg bw/d OECD 421, No effects on fertility Result: NOAEL Species: Rat
COCO-BETAINE		150 mg/kg bw/d OECD 422 Result: NOEL Species: Rat
Specific target organ toxicity - single exposure	Not classified.	
Specific target organ toxicity - repeated exposure	Not classified.	
SODIUM COCOYL ISETHION	ATE	>= 1000 mg/kg bw/d OECD 407, Oral Result: NOAEL Species: Rat Test Duration: 28 d
COCO-BETAINE		>= 145 mg/kg bw/d OECD 408 Result: NOAEL Species: Rat Test Duration: 90 d
SODIUM COCOYL ISETHIONATE		>= 2070 mg/kg bw/d OECD 410, Dermal Result: NOAEL Species: Rat Test Duration: 28 d
DECYL GLUCOSIDE		1000 mg/kg bw/d EU B.26, Oral Result: NOAEL Species: Rat Test Duration: 90 d
SODIUM LAUROYL SARCOSI	INATE	250 mg/kg bw/d OECD 408, Oral Result: NOAEL Species: Rat Test Duration: 90 d
Aspiration hazard	Not an aspiration hazard.	

12. Ecological information

Ecotoxicity

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Components		Species	Test Results
COCO-BETAINE (CAS	S 68424-94-2)		
Aquatic			
Acute			
Algae	EC50	Pseudokirchneriella subcapitata	1.7 mg/l, 72 h OECD 201
Crustacea	EC50	Daphnia magna	7.76 mg/l, 48 h OECD 202
Fish	LC50	Danio rerio	4.44 mg/l, 96 h OECD 203
Other	EC50	Activated sludge of a predominantly domestic sewage	> 2000 mg/l, 16 h DIN 38412, Pt. 8S

		Species	Test Results
Chronic			
Algae	NOEC	Pseudokirchneriella subcapitata	0.38 mg/l, 72 h OECD 201
Crustacea	NOEC	Daphnia magna	2.99 mg/l, 21 d OECD 211
DECYL GLUCOSIDE (CAS 54549-25-6)		
Aquatic			
Acute			
Algae	EC50	Desmodesmus subspicatus	19 mg/l, 72 h DIN 38412 PT 9
Crustacea	EC50	Daphnia magna	7 mg/l, 48 h OECD 202
	NOEC	Daphnia magna	2 mg/l, 21 d OECD 202
Fish	LC50	Danio rerio	2.95 mg/l, 96 h OECD 203
Other	EC0	Pseudomonas putida	1000 mg/l, 0.5 h DIN 38412 PT
Chronic			
Fish	NOEC	Danio rerio	1.8 mg/l, 28 d OECD 204
SODIUM COCOYL ISE	THIONATE (CAS	61789-32-0)	
Aquatic			
Acute			
Algae	EC50	Pseudokirchneriella subcapitata	>= 7.9 mg/l, 72 h OECD 201
Crustacea	EC50	Daphnia magna	> 32 mg/l, 48 h OECD 202
Fish	LC50	Oncorhynchus mykiss	> 25 mg/l, 96 h OECD 203
Other	EC50	Activated sludge of a predominantly domestic sewage	> 1000 mg/l, 3 h OECD 209
SODIUM LAUROYL SA	ARCOSINATE (CA	S 137-16-6)	
Aquatic			
Acute			
Algae	EC50	Desmodesmus subspicatus	23.7 mg/l, 72 h OECD 201
Crustacea	EC50	Daphnia magna	8.91 mg/l, 48 h OECD 202
Fish	LC50	Danio rerio	32.1 mg/l, 96 h OECD 203
Other	EC50	Activated sludge of a predominantly domestic sewage	> 1000 mg/l, 3 h OECD 209
* Estimates for product	may be based on	additional component data not shown.	
* Estimates for product sistence and degradal		additional component data not shown.	
sistence and degradal Biodegradability	bility		
sistence and degradal Biodegradability Percent degradat		egradation)	
sistence and degradal Biodegradability	bility	egradation) 79 % OECD 301 B	radable
sistence and degradal Biodegradability Percent degradat COCO-BETAINE	bility tion (Aerobic biod	egradation) 79 % OECD 301 B Result: Readily Biodeg Test Duration: 28 d	ıradable
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Partition coefficient n-octan	ol / water (log Kow)	
COCO-BETAINE		-0.4 EU A.8
SODIUM COCOYL ISETHION	NATE	-0.41
Mobility in soil	No data available.	
Other adverse effects	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.	

13. Disposal considerations

Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.
Local disposal regulations	Dispose in accordance with all applicable regulations.
Hazardous waste code	Not regulated.
Waste from residues / unused products	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport information

DOT

FINISHED GOODS

Not regulated as dangerous goods.

BULK

Not regulated as dangerous goods.

Read safety instructions, SDS and emergency procedures before handling.

ΙΑΤΑ

FINISHED GOODS

Not regulated as dangerous goods.

BULK

Not regulated as dangerous goods.

Read safety instructions, SDS and emergency procedures before handling.

IMDG

FINISHED GOODS

Not regulated as dangerous goods.

BULK

Not regulated as dangerous goods. Read safety instructions, SDS and emergency procedures before handling.

15. Regulatory information

US federal regulations This pro

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

Hazard categories

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Immediate Hazard - Yes Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous Yes chemical

chemical

SARA 313 (TRI reporting) Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List
Not regulated.
Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)
Not regulated.
Safe Drinking Water Act Not regulated.
(SDWA)

16. Other information, including date of preparation or last revision

Issue date Version # NFPA ratings	06-26-2018 01 Health: 3 Flammability: 1 Instability: 0
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