

1. Identification

Product identifier	PULP RIOT DEMI-PERMANENT COLOR - GROUP 3
Other means of identification	
SDS number	30-21-0000290
Recommended use	Personal care product used 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	Flammable liquids	Category 3
Health hazards	Skin corrosion/irritation	Category 2
	Serious eye damage/eye irritation	Category 1
	Sensitization, skin	Category 1
OSHA defined hazards	Not classified.	

Label elements



Signal word Danger

Hazard statement Flammable liquid and vapor. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage.

Precautionary statement

Prevention

Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Wash thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves/eye protection/face protection.

Response	If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. 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 or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. In case of fire: Use appropriate media to extinguish.
Storage	Store in a well-ventilated place. Keep cool.
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.
Hazard(s) not otherwise classified (HNOC)	None known.
Supplemental information	None.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
ETHANOL		64-17-5	8.19
PEG-4 RAPESEEDAMIDE		85536-23-8	8.13
GLYCERYL LAURYL ETHER		9022-75-7	7
DECETH-3		66455-15-0	6.93
LAURETH-5 CARBOXYLIC ACID		27306-90-7	4.5
HEXYLENE GLYCOL		107-41-5	3
OLEYL ALCOHOL		68002-94-8	1.1
4-AMINO-2-HYDROXYTOLUENE		2835-95-2	0.1
P-AMINOPHENOL		123-30-8	0.1

*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 immediately and wash skin with soap and water. In case of eczema or other skin disorders: Seek medical attention and take along these instructions. 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 redness and pain. May cause an allergic skin reaction. Dermatitis. Rash.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Thermal burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim under observation. Symptoms may be delayed.
General information	Take off all contaminated clothing immediately. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse.

5. Fire-fighting measures

Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO ₂).
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	Vapors may form explosive mixtures with air. Vapors may travel considerable distance to a source of ignition and flash back. 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	In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards	Flammable liquid and vapor.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Avoid breathing mist/vapors. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. 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

Keep combustibles (wood, paper, oil, etc.) away from spilled material. Take precautionary measures against static discharge. Use only non-sparking tools.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.

Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

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.

Environmental precautions

7. Handling and storage

Precautions for safe handling

Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. When using do not smoke. Explosion-proof general and local exhaust ventilation. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Do not get this material in contact with eyes. Avoid breathing mist/vapors. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Keep away from heat, sparks and open flame. Store in a cool, dry place out of direct sunlight. Store in tightly closed container. Store in a well-ventilated place. Keep out of the reach of children. Keep in an area equipped with sprinklers. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value
ETHANOL (CAS 64-17-5)	PEL	1900 mg/m3 1000 ppm

US. ACGIH Threshold Limit Values

Components	Type	Value	Form
ETHANOL (CAS 64-17-5)	STEL	1000 ppm	
HEXYLENE GLYCOL (CAS 107-41-5)	STEL	10 mg/m3	Aerosol, inhalable.
		50 ppm	Vapor fraction
	TWA	25 ppm	Vapor fraction

US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value
ETHANOL (CAS 64-17-5)	TWA	1900 mg/m3 1000 ppm
HEXYLENE GLYCOL (CAS 107-41-5)	Ceiling	125 mg/m3 25 ppm

Biological limit values

No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls	Explosion-proof general and local exhaust ventilation. Good general ventilation 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 and safety shower.
Individual protection measures, such as personal protective equipment	
Eye/face protection	Applicable for industrial settings only. Wear safety glasses with side shields (or goggles) and a face shield. Face shield is recommended.
Skin protection	
Hand protection	Applicable for industrial settings only. Wear appropriate chemical resistant gloves.
Other	Applicable for industrial settings only. Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.
Respiratory protection	Applicable for industrial settings only. If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.
General hygiene considerations	When using do not smoke. Always 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. Contaminated work clothing should not be allowed out of the workplace.

9. Physical and chemical properties

Appearance

Physical state	Liquid.
Color	Not available.
Odor	Characteristic.
Odor threshold	Not available.
pH	7.7 - 8.6
Melting point/freezing point	Not available.
Initial boiling point and boiling range	> 95 °F (> 35 °C)
Flash point	118.4 °F (48.0 °C) Closed Cup
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.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	Not available.
Vapor density	Not available.
Relative density	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 information	
Explosive properties	Not explosive.

Fire point	< 212.00 °F (< 100.00 °C) ISO 2592
Oxidizing properties	Not 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	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. 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	Prolonged inhalation may be harmful.
Skin contact	Causes skin irritation. May cause an allergic skin reaction.
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. May cause an allergic skin reaction. Dermatitis. Rash.
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Information on toxicological effects

Acute toxicity	Not known.
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Product	Species	Test Results
PULP RIOT DEMI-PERMANENT COLOR - GROUP 3		
<u>Acute</u>		
Dermal		
ATEmix		279800 mg/kg
Oral		
ATEmix		1.333e+006 mg/kg
Components	Species	Test Results
4-AMINO-2-HYDROXYTOLUENE (CAS 2835-95-2)		
<u>Acute</u>		
Oral		
LD50	Rat	3600 mg/kg
DECETH-3 (CAS 66455-15-0)		
<u>Acute</u>		
Dermal		
LD50	Rat	> 2000 mg/kg Based on test data for structurally similar materials.
Oral		
LD50	Rat	> 2000 mg/kg Based on test data for structurally similar materials.
ETHANOL (CAS 64-17-5)		
<u>Acute</u>		
Dermal		
LD50	Rabbit	> 20000 mg/kg
Inhalation		
Vapor		
LC50	Rat	124.7 mg/l, 4 h OECD 403

Components	Species	Test Results
Oral		
LD50	Rat	10470 mg/kg OECD 401
GLYCERYL LAURYL ETHER (CAS 9022-75-7)		
Acute		
Dermal		
LD50	Rat	> 2000 mg/l OECD 402
Oral		
LD50	Rat	> 2000 mg/l OECD 423
HEXYLENE GLYCOL (CAS 107-41-5)		
Acute		
Dermal		
LD50	Rat	> 2000 mg/kg OECD 402
Inhalation		
LC50	Rat	> 60 ml/m3 air, 8 h OECD 403
Oral		
LD50	Rat	> 2000 mg/kg OECD 420
LAURETH-5 CARBOXYLIC ACID (CAS 27306-90-7)		
Acute		
Oral		
LD50	Rat	> 2000 mg/kg OECD 401
OLEYL ALCOHOL (CAS 68002-94-8)		
Acute		
Dermal		
LD50	Rabbit	8000 mg/kg Based on test data for structurally similar materials.
Oral		
LD50	Rat	> 2000 mg/kg OECD 401
P-AMINOPHENOL (CAS 123-30-8)		
Acute		
Dermal		
LD50	Rabbit	> 8000 mg/kg EPA OPTTS 870.1200
Inhalation		
<i>Dust</i>		
LC50	Rat	> 3.42 mg/l, 4 h OECD 403
Oral		
LD50	Rat	671 mg/kg EPA OPPTS 870.1100
PEG-4 RAPESEEDAMIDE (CAS 85536-23-8)		
Acute		
Dermal		
LD50	Rat	> 2000 mg/kg OECD 402
Inhalation		
LC50	Rat	6 mg/L air, 4 h OECD 436
Oral		
LD50	Rat	> 2000 mg/kg OECD 401
Skin corrosion/irritation	Causes skin irritation.	
Irritation Corrosion - Skin		
GLYCERYL LAURYL ETHER		OECD 404 Result: Corrosive Species: Rabbit
PEG-4 RAPESEEDAMIDE		OECD 404 Result: Irritating Species: Rabbit

Irritation Corrosion - Skin

ETHANOL

OECD 404

Result: Not Irritating

Species: Rabbit

LAURETH-5 CARBOXYLIC ACID

OECD 404

Result: Slightly Irritating

Species: Rabbit

DECETH-3

OECD 404, Based on test data for structurally similar materials.

Result: Slightly Irritating

Species: Rabbit

HEXYLENE GLYCOL

OECD 405

Result: Slightly irritating

Species: Rabbit

4-AMINO-2-HYDROXYTOLUENE

OECD 439

Result: Not Irritating

Species: RhE

OLEYL ALCOHOL

Result: Slightly Irritating

Species: Rabbit

P-AMINOPHENOL

Result: Slightly Irritating

Species: Rabbit

Serious eye damage/eye irritation

Causes serious eye damage.

Irritation Corrosion - Eye

P-AMINOPHENOL

EPA OPPTS 870.2400

Result: Slightly Irritating

Species: Rabbit

LAURETH-5 CARBOXYLIC ACID

OECD 405

Result: Corrosive

Species: Rabbit

ETHANOL

OECD 405

Result: Irritating

Species: Rabbit

HEXYLENE GLYCOL

OECD 405

Result: Slightly irritating

Species: Rabbit

PEG-4 RAPESEEDAMIDE

OECD 405

Result: Slightly Irritating

Species: Rabbit

4-AMINO-2-HYDROXYTOLUENE

OECD 492

Result: Not Irritating

Species: RhCE

GLYCERYL LAURYL ETHER

Result: Corrosive

DECETH-3

Result: Corrosive

Species: Rabbit

HEXYLENE GLYCOL

Result: Irritating

Species: Human

OLEYL ALCOHOL

Result: Not Irritating

Species: Rabbit

Respiratory or skin sensitization**Respiratory sensitization**

Due to partial or complete lack of data the classification is not possible.

Skin sensitization

May cause an allergic skin reaction.

Skin sensitization

ETHANOL

OECD 406

Result: Not Sensitizing

Species: Guinea pig

GLYCERYL LAURYL ETHER

OECD 406

Result: Not Sensitizing

Species: Guinea pig

HEXYLENE GLYCOL

OECD 406

Result: Not Sensitizing

Species: Guinea pig

LAURETH-5 CARBOXYLIC ACID

OECD 406

Result: Not Sensitizing

Species: Guinea pig

Skin sensitization

PEG-4 RAPESEEDAMIDE

OECD 406

Result: Not Sensitizing

Species: Guinea pig

P-AMINOPHENOL

OECD 406

Result: Sensitizing

Species: Guinea pig

DECETH-3

OECD 406, Based on test data for structurally similar materials.

Result: Not Sensitizing

Species: Guinea pig

4-AMINO-2-HYDROXYTOLUENE

OECD 429

Result: Sensitizing

Species: Mouse

OLEYL ALCOHOL

Result: Not Sensitizing

Species: Rabbit

Germ cell mutagenicity

Due to partial or complete lack of data the classification is not possible.

Mutagenicity

ETHANOL

Result: In vitro and in vivo tests did not show mutagenic effects.

OLEYL ALCOHOL

Result: In vitro and in vivo tests did not show mutagenic effects.

PEG-4 RAPESEEDAMIDE

Result: In vitro and in vivo tests did not show mutagenic effects.

DECETH-3

Result: In vitro tests did not show mutagenic effects

GLYCERYL LAURYL ETHER

Result: In vitro tests did not show mutagenic effects

HEXYLENE GLYCOL

Result: In vitro tests did not show mutagenic effects

LAURETH-5 CARBOXYLIC ACID

Result: In vitro tests did not show mutagenic effects

4-AMINO-2-HYDROXYTOLUENE

Result: In vitro tests showed mutagenic effects which were not observed with in vivo tests.

P-AMINOPHENOL

Result: In vivo tests showed mutagenic effects

Carcinogenicity

Not classifiable as to carcinogenicity to humans. Due to partial or complete lack of data the classification is not possible.

IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not regulated.

US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

Reproductive toxicity

Possible reproductive hazard.

Developmental effects

ETHANOL

> 20000 ppm OECD 414, No effects on development

Result: NOAEL

Species: Rat

P-AMINOPHENOL

100 mg/kg bw/d OECD 421

Result: NOAEL

Species: Rat

4-AMINO-2-HYDROXYTOLUENE

180 mg/kg bw/d OECD 414

Result: NOAEL

Species: Rat

OLEYL ALCOHOL

2000 mg/kg bw/d OECD 422

Result: NOAEL

Species: Rat

HEXYLENE GLYCOL

300 mg/kg bw/d OECD 414

Result: NOAEL

Species: Rat

PEG-4 RAPESEEDAMIDE

500 mg/kg bw/d OECD 421, No effects on development

Result: NOEL

Species: Rat

GLYCERYL LAURYL ETHER

600 mg/kg bw/d OECD 421

Result: NOAEL

Species: Rat

Reproductivity

P-AMINOPHENOL	100 mg/kg bw/d OECD 421 Result: NOAEL Species: Rat
HEXYLENE GLYCOL	1000 mg/kg bw/d OECD 421 Result: NOEL Species: Rat
4-AMINO-2-HYDROXYTOLUENE	200 mg/kg bw/d OECD 415 Result: NOAEL Species: Rat
OLEYL ALCOHOL	2000 mg/kg bw/d OECD 422 Result: NOAEL Species: Rat
ETHANOL	20700 mg/kg bw/d OECD 416, No effects on fertility Result: NOAEL Species: Rat
PEG-4 RAPESEEDAMIDE	500 mg/kg bw/d OECD 421, No effects on fertility Result: NOEL Species: Rat
GLYCERYL LAURYL ETHER	600 mg/kg bw/d OECD 421 Result: NOAEL Species: Rat

Specific target organ toxicity - single exposure Due to partial or complete lack of data the classification is not possible.

Specific target organ toxicity - repeated exposure Due to partial or complete lack of data the classification is not possible.

P-AMINOPHENOL	10 mg/kg bw/d OECD 408 Result: NOAEL Species: Rat Test Duration: 90 d
DECETH-3	100 mg/kg bw/d OECD 407, Based on test data for structurally similar materials. Result: NOAEL Species: Rat Test Duration: 28 d
GLYCERYL LAURYL ETHER	150 mg/kg bw/d OECD 407 Result: NOAEL Species: Rat Test Duration: 28 d
PEG-4 RAPESEEDAMIDE	150 mg/kg bw/d OECD 407, Oral Result: NOAEL Species: Rat
ETHANOL	1730 mg/kg bw/d OECD 408, Oral Result: NOAEL Species: Rat
4-AMINO-2-HYDROXYTOLUENE	180 mg/kg bw/d OECD 408, Oral Result: NOAEL Species: Rat Test Duration: 90 d
HEXYLENE GLYCOL	450 mg/kg bw/d OECD 408, Oral Result: NOAEL Species: Rat

Aspiration hazard Due to partial or complete lack of data the classification is not possible.

Further information The reference to any animal testing for individual constituents mentioned in this document is based on public, third-party data.

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
4-AMINO-2-HYDROXYTOLUENE (CAS 2835-95-2)		
Aquatic		
<i>Acute</i>		
Algae	EC50	Pseudokirchneriella subcapitata
		41 mg/l, 72 h OECD 201

Components		Species	Test Results
Crustacea	EC50	Daphnia magna	2.3 mg/l, 48 h OECD 202
Fish	LC50	Danio rerio	25 mg/l, 96 h OECD 236
Other	EC50	Activated sludge of a predominantly domestic sewage	> 150 mg/l, 3 h OECD 209
<i>Chronic</i>			
Crustacea	NOEC	Daphnia magna	0.24 mg/l, 21 d OECD 211
DECETH-3 (CAS 66455-15-0)			
Aquatic			
<i>Acute</i>			
Algae	EC50	Desmodesmus subspicatus	1.8 mg/l, 72 h 92/69/EWG
Crustacea	EC50	Daphnia magna	0.39 mg/l, 48 h 92/69/EWG
Fish	LC50	Cyprinus carpio	1.2 mg/l, 96 h EU C.1
Other	EC0	Activated sludge of a predominantly domestic sewage	140 mg/l, 3 h 88/302/EG
<i>Chronic</i>			
Crustacea	NOEC	Daphnia magna	<= 1 mg/l, 21 d
Fish	NOEC	Lepomis macrochirus	0.16 mg/l, 10 d
ETHANOL (CAS 64-17-5)			
Aquatic			
<i>Acute</i>			
Algae	EC50	Pseudokirchneriella subcapitata	22200 mg/l, 96 h
Crustacea	EC50	Ceriodaphnia dubia	5012 mg/l, 48 h
Fish	LC50	Pimephales promelas	15300 mg/l, 96 h
Other	IC50	Activated sludge of a predominantly domestic sewage	> 1000 mg/l, 3 h
<i>Chronic</i>			
Crustacea	NOEC	Daphnia magna	9.6 mg/l, 9 d
Fish	NOEC	Danio rerio	250 mg/l, 120 h OECD 212
GLYCERYL LAURYL ETHER (CAS 9022-75-7)			
Aquatic			
<i>Acute</i>			
Algae	EC50	Pseudokirchneriella subcapitata	1.11 mg/l, 72 h OECD 201
Crustacea	EC50	Daphnia magna	0.875 mg/l, 48 h OECD 202
Fish	LC50	Danio rerio	1.61 mg/l, 96 h OECD 203
Other	EC50	Activated sludge of a predominantly domestic sewage	31.6 mg/l, 3 h OECD 209
<i>Chronic</i>			
Crustacea	NOEC	Daphnia magna	0.036 mg/l, 21 d OECD 211
Fish	NOEC	Danio rerio	0.086 mg/l, 30 d OECD 210
HEXYLENE GLYCOL (CAS 107-41-5)			
Aquatic			
<i>Acute</i>			
Algae	EC50	Pseudokirchneriella subcapitata	> 429 mg/l, 72 hours OECD 201
Crustacea	EC50	Daphnia magna	5410 mg/l, 48 hours OECD 202
Fish	LC50	Pimephales promelas	10700 mg/l, 96 hours OECD 203
Other	NOEC	Pseudomonas aeruginosa	200 mg/l, 10 days
LAURETH-5 CARBOXYLIC ACID (CAS 27306-90-7)			
Aquatic			
<i>Acute</i>			
Fish	LC50	Oncorhynchus mykiss	7.5 mg/l, 96 h

Components		Species	Test Results
OLEYL ALCOHOL (CAS 68002-94-8)			
Aquatic			
<i>Acute</i>			
Algae	EC50	Algae	250 mg/l OECD 201
Fish	LC50	Fish	> 1000 mg/l OECD 203
P-AMINOPHENOL (CAS 123-30-8)			
Aquatic			
<i>Acute</i>			
Algae	EC50	Pseudokirchneriella subcapitata	> 0.253 mg/l, 72 h OECD 201
Crustacea	EC50	Daphnia magna	0.182 mg/l, 48 h OECD 202
Fish	LC50	Oryzias latipes	0.82 mg/l, 96 h OECD 203
Other	EC50	Activated sludge of a predominantly domestic sewage	29.9 mg/l, 3 h OECD 209
PEG-4 RAPESEEDAMIDE (CAS 85536-23-8)			
Aquatic			
<i>Acute</i>			
Algae	EC50	Desmodesmus subspicatus	410 mg/l, 72 h OECD 201
Crustacea	EC50	Daphnia magna	3.8 mg/l, 48 h OECD 202
Fish	LC50	Oncorhynchus mykiss	2.9 mg/l, 96 h OECD 203
Other	EC50	Activated sludge of a predominantly domestic sewage	> 1000 mg/l, 3 h OECD 209
<i>Chronic</i>			
Crustacea	NOEC	Daphnia magna	0.39 mg/l, 21 d OECD 211
Persistence and degradability			
Biodegradability			
Percent degradation (Aerobic biodegradation)			
4-AMINO-2-HYDROXYTOLUENE			0 % OECD 301 B Result: Not Readily Biodegradable Test Duration: 28 d
DECETH-3			78 % OECD 301 B Result: Readily Biodegradable Test Duration: 28 d
ETHANOL			84 % Result: Readily Biodegradable Test Duration: 20 d
GLYCERYL LAURYL ETHER			88 % OECD 301 B Result: Readily Biodegradable
HEXYLENE GLYCOL			81 % OECD 301 F Result: Readily biodegradable Test Duration: 28 d
LAURETH-5 CARBOXYLIC ACID			78 % OECD 301 B Result: Readily Biodegradable Test Duration: 28 d
OLEYL ALCOHOL			87 % OECD 301 D Result: Not Readily Biodegradable Test Duration: 28 d
PEG-4 RAPESEEDAMIDE			96 % OECD 203 Result: Readily Biodegradable Test Duration: 28 d
Bioaccumulative potential			
Partition coefficient n-octanol / water (log Kow)			
4-AMINO-2-HYDROXYTOLUENE			-0.53 EU A.8 0.53 OECD 117
ETHANOL			-0.31
GLYCERYL LAURYL ETHER			3.79 - 4.25
P-AMINOPHENOL			0.25
PEG-4 RAPESEEDAMIDE			5

Bioconcentration factor (BCF)

P-AMINOPHENOL

10 - 46 OECD 305 C

Bioaccumulation

P-AMINOPHENOL

Result: Bioaccumulation is unlikely.

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

This product is ignitable (D001) RCRA hazardous wastes when intended for disposal.

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**

Materials associated with this document meet the criteria for US Department of Transportation exemption found at 49 CFR 173.150(g).

Packages containing limited quantities of retail products in volumes in accordance with the tables listed below maybe offered under the conditions of the exemption.

US Domestic Transportation

Per 49 CFR 173.150(g) exemptions:

>70% Ethyl Alcohol (v/v) (w/w)				
	Inner Packaging	Net Contents	Gross Weight	Marking
Liquids	8 fl. oz.	192 fl. oz.	65 lbs.	None
≤70% Ethyl Alcohol (v/v) (w/w)				
Liquids (glass)	8 fl. oz.	192 fl. oz.	65 lbs.	None
	16 fl. oz.	192 fl. oz.	65 lbs.	Contains Ethyl Alcohol
Liquids (non-glass)	16 fl. oz.	192 fl. oz.	65 lbs.	None
	1 gallon	192 fl. oz.	65 lbs.	Contains Ethyl Alcohol
General Conditions				
Inner packagings must be secured and cushioned within the outer package to prevent breakage, leakage and movement.				

DOT**FINISHED GOODS**

UN number UN1170
UN proper shipping name ETHANOL SOLUTION, Limited Quantity
Class 3
Packing group III
Transport hazard class(es)
Label(s) Limited Quantity
Packaging exceptions 4b, 150
LTD QTY Net Inner Capacity 5.0 L

BULK

UN number UN1170
UN proper shipping name ETHANOL SOLUTION
Class 3
Packing group III
Transport hazard class(es)
Label(s) 3
Special provisions 24, B1, IB3, T2, TP1
Packaging non bulk 203

IATA**FINISHED GOODS**

UN number ID8000
UN proper shipping name CONSUMER COMMODITY
Class 9
Packing group Not applicable.

Transport hazard class(es)	
Label(s)	Class 9, Limited Quantity
ERG Number	9L
LTD QTY Net Inner Capacity	0.5 L

BULK

UN number	UN1170
UN proper shipping name	ETHANOL SOLUTION
Class	3
Packing group	III
ERG Number	3L

IMDG

FINISHED GOODS

UN number	UN1170
UN proper shipping name	ETHANOL SOLUTION, Limited Quantity
Class	3
Packing group	III
Environmental Hazards	
Marine pollutant	No.
Transport hazard class(es)	
Label(s)	Limited Quantity
EmS	F-E, S-D
LTD QTY Net Inner Capacity	5.0 L

BULK

UN number	UN1170
UN proper shipping name	ETHANOL SOLUTION
Class	3
Packing group	III
Environmental hazards	
Marine pollutant	No.
EmS	F-E, S-D

15. Regulatory information

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

Toxic Substances Control Act (TSCA)

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

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

ETHANOL (CAS 64-17-5) Listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous chemical No (Exempt)

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 (SDWA) Not regulated.

16. Other information, including date of preparation or last revision**Issue date** 05-18-2020**Version #** 01**NFPA ratings** Health: 3
Flammability: 2
Instability: 0

Disclaimer The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.