

**1. Identification**

**Product identifier** REDKEN SHADES EQ BONDER INSIDE PERMANENT HAIR COLOR - GROUP 5  
**Other means of identification**  
**SDS number** 30-21-0000296  
**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  
**OSHA defined hazards** Not classified.

**Label elements**



**Signal word** Danger  
**Hazard statement** Flammable liquid and vapor. Causes skin irritation. 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. 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 occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. In case of fire: Use appropriate media to extinguish.

<b>Storage</b>	Store in a well-ventilated place. Keep cool.
<b>Disposal</b>	Dispose of contents/container in accordance with local/regional/national/international regulations.
<b>Hazard(s) not otherwise classified (HNOC)</b>	None known.
<b>Supplemental information</b>	None.

### 3. Composition/information on ingredients

#### Mixtures

Chemical name	Common name and synonyms	CAS number	%
ETHANOL		64-17-5	10
SODIUM C14-16 OLEFIN SULFONATE		68439-57-6	9
DECETH-3		66455-15-0	8.1
COCAMIDE MIPA		68333-82-4	6.5
OLEYL ALCOHOL		68002-94-8	6
LAURYL ALCOHOL		112-53-8	1.73

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

### 4. First-aid measures

<b>Inhalation</b>	Move to fresh air. Call a physician if symptoms develop or persist.
<b>Skin contact</b>	Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse.
<b>Eye contact</b>	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.
<b>Ingestion</b>	Rinse mouth. Get medical attention if symptoms occur.
<b>Most important symptoms/effects, acute and delayed</b>	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.
<b>Indication of immediate medical attention and special treatment needed</b>	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.
<b>General information</b>	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

<b>Suitable extinguishing media</b>	Water fog. Alcohol resistant foam. Dry chemical powder. Carbon dioxide (CO2).
<b>Unsuitable extinguishing media</b>	Do not use water jet as an extinguisher, as this will spread the fire.
<b>Specific hazards arising from the chemical</b>	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.
<b>Special protective equipment and precautions for firefighters</b>	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
<b>Fire fighting equipment/instructions</b>	In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk.
<b>Specific methods</b>	Use standard firefighting procedures and consider the hazards of other involved materials.
<b>General fire hazards</b>	Flammable liquid and vapor.

### 6. Accidental release measures

<b>Personal precautions, protective equipment and emergency procedures</b>	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. 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.
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**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 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
ETHANOL (CAS 64-17-5)	STEL	1000 ppm

**US. NIOSH: Pocket Guide to Chemical Hazards**

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

**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.

**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.

## 9. Physical and chemical properties

### Appearance

**Physical state** Liquid.  
**Form** Cream.  
**Color** Orange.

**Odor** Characteristic.

**Odor threshold** Not available.

**pH** 9.2 - 9.8

**Melting point/freezing point** Not available.

**Initial boiling point and boiling range** > 212 °F (> 100 °C)

**Flash point** 100.4 °F (38.0 °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.

<b>Skin contact</b>	Causes skin irritation.
<b>Eye contact</b>	Causes serious eye damage.
<b>Ingestion</b>	Expected to be a low ingestion hazard.
<b>Symptoms related to the physical, chemical and toxicological characteristics</b>	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.

Product	Species	Test Results
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REDKEN SHADES EQ BONDER INSIDE PERMANENT HAIR COLOR - GROUP 5

**Acute**

**Dermal**

ATEmix 149500 mg/kg

**Oral**

ATEmix 16430 mg/kg

Components	Species	Test Results
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COCAMIDE MIPA (CAS 68333-82-4)

**Acute**

**Dermal**

LD50 Rabbit > 2000 mg/kg OECD 402

**Oral**

LD50 Rat > 2000 mg/kg OECD 401

DECETH-3 (CAS 66455-15-0)

**Acute**

**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)

**Acute**

**Dermal**

LD50 Rabbit > 20000 mg/kg

**Inhalation**

*Vapor*

LC50 Rat 124.7 mg/l, 4 h OECD 403

**Oral**

LD50 Rat 10470 mg/kg OECD 401

LAURYL ALCOHOL (CAS 112-53-8)

**Acute**

**Dermal**

LD50 Rabbit 8000 - 12000 mg/kg OECD 402

**Inhalation**

*Mist*

LC50 Rat > 71 mg/l, 1 h Based on test data for structurally similar materials.

**Oral**

LD50 Rat > 2000 mg/kg OECD 401

Components	Species	Test Results
OLEYL ALCOHOL (CAS 68002-94-8)		
<b>Acute</b>		
<b>Dermal</b>		
LD50	Rabbit	8000 mg/kg Based on test data for structurally similar materials.
<b>Oral</b>		
LD50	Rat	> 2000 mg/kg OECD 401
SODIUM C14-16 OLEFIN SULFONATE (CAS 68439-57-6)		
<b>Acute</b>		
<b>Dermal</b>		
LD50	Rabbit	6300 mg/kg OECD 402
<b>Inhalation</b>		
<i>Aerosol</i>		
LC50	Rat	> 52 mg/l, 4 h OECD 403
<b>Oral</b>		
LD50	Rat	2079 mg/kg OECD 401
<b>Skin corrosion/irritation</b>	Causes skin irritation. No adverse effects due to skin contact are expected.	
<b>Irritation Corrosion - Skin</b>		
SODIUM C14-16 OLEFIN SULFONATE		OECD 404 Result: Irritating Species: Rabbit
ETHANOL		OECD 404 Result: Not Irritating Species: Rabbit
LAURYL ALCOHOL		OECD 404 Result: Not Irritating Species: Rabbit
COCAMIDE MIPA		OECD 404, Based on test data for structurally similar materials. Result: Irritating Species: Rabbit
DECETH-3		OECD 404, Based on test data for structurally similar materials. Result: Slightly Irritating Species: Rabbit
OLEYL ALCOHOL		Result: Slightly Irritating Species: Rabbit
<b>Serious eye damage/eye irritation</b>	Causes serious eye damage.	
<b>Irritation Corrosion - Eye</b>		
ETHANOL		OECD 405 Result: Irritating Species: Rabbit
LAURYL ALCOHOL		OECD 405 Result: Irritating Species: Rabbit
SODIUM C14-16 OLEFIN SULFONATE		OECD 405, 5% < C ≤ 38% Result: Irritating Species: Rabbit
COCAMIDE MIPA		OECD 405, Based on test data for structurally similar materials. Result: Corrosive Species: Rabbit
SODIUM C14-16 OLEFIN SULFONATE		OECD 405, C >38% Result: Corrosive Species: Rabbit
DECETH-3		Result: Corrosive Species: Rabbit
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** Due to partial or complete lack of data the classification is not possible.

### Skin sensitization

COCAMIDE MIPA	OECD 406 Result: Not Sensitizing Species: Guinea pig
ETHANOL	OECD 406 Result: Not Sensitizing Species: Guinea pig
LAURYL ALCOHOL	OECD 406 Result: Not Sensitizing Species: Guinea pig
SODIUM C14-16 OLEFIN SULFONATE	OECD 406 Result: Not Sensitizing Species: Guinea pig
DECETH-3	OECD 406, Based on test data for structurally similar materials. Result: Not Sensitizing Species: Guinea pig
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.
LAURYL ALCOHOL	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.
COCAMIDE MIPA	Result: In vitro tests did not show mutagenic effects
DECETH-3	Result: In vitro tests did not show mutagenic effects
SODIUM C14-16 OLEFIN SULFONATE	Result: In vitro tests did not show 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

COCAMIDE MIPA	> 1000 mg/kg bw/d OECD 414, Based on test data for structurally similar materials. Result: NOAEL Species: Rat
ETHANOL	> 20000 ppm OECD 414, No effects on development Result: NOAEL Species: Rat
SODIUM C14-16 OLEFIN SULFONATE	>= 600 mg/kg bw/d OECD 414 Result: NOAEL Species: Rat
OLEYL ALCOHOL	2000 mg/kg bw/d OECD 422 Result: NOAEL Species: Rat
LAURYL ALCOHOL	2000 mg/kg bw/d OECD 422 Species: Rat

### Reproductivity

LAURYL ALCOHOL	2000 mg/kg bw/d OECD 422 Result: NOAEL Species: Rat
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**Reproductivity**

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

**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.

COCAMIDE MIPA

&gt; 750 mg/kg bw/d OECD 407, Oral

Result: NOAEL

Species: Rat

Test Duration: 28 d

SODIUM C14-16 OLEFIN SULFONATE

&gt;= 259 mg/kg bw/d

Result: NOAEL

Species: Rat

Test Duration: 104 wk

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

LAURYL ALCOHOL

1127 mg/kg bw/d

Result: NOAEL

Species: Rat

Test Duration: 90 d

ETHANOL

1730 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
<b>COCAMIDE MIPA (CAS 68333-82-4)</b>			
<b>Aquatic</b>			
<i>Acute</i>			
Algae	EC50	Pseudokirchneriella subcapitata	> 9.4 mg/l, 72 h OECD 201
Crustacea	LC50	Daphnia magna	3.7 mg/l, 48 h OECD 202
Fish	LC50	Fish	2.7 mg/l, 96 h QSAR
Other	EC50	Activated sludge of a predominantly domestic sewage	> 1000 mg/l, 3 h OECD 209
<i>Chronic</i>			
Algae	NOEC	Pseudokirchneriella subcapitata	1 mg/l, 72 h OECD 201
Crustacea	NOEC	Daphnia magna	0.07 mg/l, 21 d OECD 211
Fish	NOEC	Oncorhynchus mykiss	0.32 mg/l, 28 d OECD 204
<b>DECETH-3 (CAS 66455-15-0)</b>			
<b>Aquatic</b>			
<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



Components		Species	Test Results
<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)			
<b>Aquatic</b>			
<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
LAURYL ALCOHOL (CAS 112-53-8)			
<i>Acute</i>			
Other	EC50	Tetrahymena pyriformis	1.58 mg/l, 48 h
<b>Aquatic</b>			
<i>Acute</i>			
Algae	EC50	Desmodesmus subspicatus	0.66 mg/l, 72 h
Crustacea	EC50	Daphnia magna	0.765 mg/l, 48 h
Fish	LC50	Pimephales promelas	1.01 mg/l, 96 h
<i>Chronic</i>			
Algae	NOEC	Desmodesmus subspicatus	0.085 mg/l, 72 h
Crustacea	NOEC	Daphnia magna	0.014 mg/l, 21 d
OLEYL ALCOHOL (CAS 68002-94-8)			
<b>Aquatic</b>			
<i>Acute</i>			
Algae	EC50	Algae	250 mg/l OECD 201
Fish	LC50	Fish	> 1000 mg/l OECD 203
SODIUM C14-16 OLEFIN SULFONATE (CAS 68439-57-6)			
<b>Aquatic</b>			
Crustacea	EC50	Water flea (Ceriodaphnia dubia)	4.14 - 4.95 mg/l, 48 hours
<i>Acute</i>			
Algae	EC50	Skeletonema costatum	5.2 mg/l, 72 h ISO 10253
Crustacea	EC50	Acartia tonsa	230 mg/l, 3 h OECD 209
		Ceriodaphnia dubia	4.53 mg/l, 48 h OECD 202
Fish	LC50	Danio rerio	4.2 mg/l, 96 h OECD 203
<i>Chronic</i>			
Crustacea	NOEC	Daphnia magna	6.3 mg/l, 21 d OECD 211

## Persistence and degradability

### Biodegradability

#### Percent degradation (Aerobic biodegradation)

COCAMIDE MIPA

74 % ISO 14593  
Result: 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

## Biodegradability

### Percent degradation (Aerobic biodegradation)

LAURYL ALCOHOL

79 % OECD 301 D

Result: Readily Biodegradable

Test Duration: 28 d

OLEYL ALCOHOL

87 % OECD 301 D

Result: Not Readily Biodegradable

Test Duration: 28 d

SODIUM C14-16 OLEFIN SULFONATE

80 % OECD 301 B

Result: Readily Biodegradable

Test Duration: 28 d

## Bioaccumulative potential

### Partition coefficient n-octanol / water (log Kow)

COCAMIDE MIPA

3.77

ETHANOL

-0.31

LAURYL ALCOHOL

5.4 OECD 117

SODIUM C14-16 OLEFIN SULFONATE

-1.3 EU A.8

### Bioconcentration factor (BCF)

COCAMIDE MIPA

143

### Bioaccumulation

COCAMIDE MIPA

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. 16 fl. oz.	192 fl. oz.	65 lbs.	None Contains Ethyl Alcohol
Liquids (non-glass)	16 fl. oz. 1 gallon	192 fl. oz.	65 lbs.	None 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.

### FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace

ETHANOL (CAS 64-17-5)

Low priority

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

**Issue date**                     03-04-2021

**Version #**                        01

**NFPA ratings**                  Health: 3  
Flammability: 2  
Instability: 0

### Disclaimer

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