

1. Identification

Product identifier REDKEN BLONDE IDOL BASE BREAKER - CLEAR/COOL

Other means of identification

SDS number 38-21-0000055

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 1B
Serious eye damage/eye irritation Category 1

OSHA defined hazards Not classified.

Label elements



Signal word Danger

Hazard statement Flammable liquid and vapor. Causes severe skin burns and eye damage. 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. Do not breathe mist/vapors. Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection.

Response	If swallowed: Rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If inhaled: Remove person to fresh air and keep comfortable for breathing. 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. Wash contaminated clothing before reuse. In case of fire: Use appropriate media to extinguish.
Storage	Store in a well-ventilated place. Keep cool. Store locked up.
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
ETHANOLAMINE		141-43-5	3.66
HEXYLENE GLYCOL		107-41-5	3
AMMONIUM HYDROXIDE		1336-21-6	1.23
OLEYL ALCOHOL		68002-94-8	1.1

*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	Take off immediately all contaminated clothing. Rinse skin with water/shower. Call a physician or poison control center immediately. Chemical burns must be treated by a physician. 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. Call a physician or poison control center immediately.
Ingestion	Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.
Most important symptoms/effects, acute and delayed	Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.
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. Chemical 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 (CO2).
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. Do not breathe 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.

Environmental precautions

Avoid discharge into drains, water courses or onto the ground.

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 breathe mist/vapors. Do not get in eyes, on skin, or on clothing. Avoid prolonged exposure. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Store locked up. 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
AMMONIUM HYDROXIDE (CAS 1336-21-6)	PEL	35 mg/m3
		50 ppm
ETHANOL (CAS 64-17-5)	PEL	1900 mg/m3
		1000 ppm
ETHANOLAMINE (CAS 141-43-5)	PEL	6 mg/m3
		3 ppm

US. ACGIH Threshold Limit Values

Components	Type	Value	Form
AMMONIUM HYDROXIDE (CAS 1336-21-6)	STEL	35 ppm	
	TWA	25 ppm	
ETHANOL (CAS 64-17-5)	STEL	1000 ppm	
ETHANOLAMINE (CAS 141-43-5)	STEL	6 ppm	
	TWA	3 ppm	
HEXYLENE GLYCOL (CAS 107-41-5)	STEL	10 mg/m3	Aerosol, inhalable.

US. ACGIH Threshold Limit Values

Components	Type	Value	Form
		50 ppm	Vapor fraction
	TWA	25 ppm	Vapor fraction

US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value
AMMONIUM HYDROXIDE (CAS 1336-21-6)	STEL	27 mg/m3
		35 ppm
	TWA	18 mg/m3
		25 ppm
ETHANOL (CAS 64-17-5)	TWA	1900 mg/m3
		1000 ppm
ETHANOLAMINE (CAS 141-43-5)	STEL	15 mg/m3
		6 ppm
	TWA	8 mg/m3
		3 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. Eye wash facilities and emergency shower must be available when handling this product.

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.

Color

Not available.

Odor

Characteristic.

Odor threshold

Not available.

pH

Not available.

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	May cause irritation to the respiratory system. Prolonged inhalation may be harmful.
Skin contact	Causes severe skin burns.

Prolonged or repeated exposure may cause liver and kidney damage. These effects have not been observed in humans.

Eye contact	Causes serious eye damage.
Ingestion	Causes digestive tract burns.

Symptoms related to the physical, chemical and toxicological characteristics Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.

Information on toxicological effects

Acute toxicity	Not known.
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Product	Species	Test Results
REDKEN BLONDE IDOL BASE BREAKER - CLEAR/COOL		
Acute		
Dermal		
ATEmix		57700 mg/kg
Oral		
ATEmix		16640 mg/kg
Components	Species	Test Results
AMMONIUM HYDROXIDE (CAS 1336-21-6)		
Acute		
Inhalation		
LC50	Rat	11590 mg/l, 1 h
Oral		
LD50	Rat	350 mg/kg bw 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		
<i>Vapor</i>		
LC50	Rat	124.7 mg/l, 4 h OECD 403
Oral		
LD50	Rat	10470 mg/kg OECD 401
ETHANOLAMINE (CAS 141-43-5)		
Acute		
Dermal		
LD50	Rabbit	2504 mg/kg OECD 402
Inhalation		
<i>Vapor</i>		
LC50	Rat	> 1.3 mg/l, 6 h
Oral		
LD50	Rat	1515 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

Components	Species	Test Results
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
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 severe skin burns and eye damage.	
Irritation Corrosion - Skin		
ETHANOLAMINE		OECD 404 Result: Corrosive Species: Rabbit
GLYCERYL LAURYL ETHER		OECD 404 Result: Corrosive Species: Rabbit
AMMONIUM HYDROXIDE		OECD 404 Result: Corrosive Species: Rat
PEG-4 RAPESEEDAMIDE		OECD 404 Result: Irritating Species: Rabbit
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
OLEYL ALCOHOL		OECD 405 Result: Slightly Irritating Species: Rabbit
Serious eye damage/eye irritation	Causes serious eye damage.	
Irritation Corrosion - Eye		
ETHANOLAMINE		OECD 405 Result: Corrosive Species: Rabbit
LAURETH-5 CARBOXYLIC ACID		OECD 405 Result: Corrosive Species: Rabbit

Irritation Corrosion - Eye

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
AMMONIUM HYDROXIDE	Result: Corrosive
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 Due to partial or complete lack of data the classification is not possible.

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
PEG-4 RAPESEEDAMIDE	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
ETHANOLAMINE	Result: Not Sensitizing Species: Guinea pig
OLEYL ALCOHOL	Result: Not Sensitizing Species: Rabbit
AMMONIUM HYDROXIDE	Result: Not Sensitizing Species: Guinea pig

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.
ETHANOLAMINE	Result: In vitro and in vivo tests did show mutagenic effects
AMMONIUM HYDROXIDE	Result: In vitro 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

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
ETHANOLAMINE	>= 450 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

HEXYLENE GLYCOL	1000 mg/kg bw/d OECD 421 Result: NOEL 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
ETHANOLAMINE	300 mg/kg bw/d OECD 416 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.

AMMONIUM HYDROXIDE	Result: Highly Irritating
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Specific target organ toxicity - repeated exposure Due to partial or complete lack of data the classification is not possible.

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
ETHANOLAMINE	150 mg/m3 air OECD 412, Inhalation Result: NOAEC Species: Rat Test Duration: 28 d

Specific target organ toxicity - repeated exposure

ETHANOL	1730 mg/kg bw/d OECD 408, Oral Result: NOAEL Species: Rat
ETHANOLAMINE	300 mg/kg bw/d OECD 416, Oral Result: NOAEL Species: Rat
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.

Chronic effects May be harmful if absorbed through skin.

Prolonged or repeated exposure may cause liver and kidney damage. These effects have not been observed in humans.

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
AMMONIUM HYDROXIDE (CAS 1336-21-6)		
Aquatic		
<i>Acute</i>		
Algae	EC50	Chlorella vulgaris 2700 mg/l, 18 d
Crustacea	EC50	Daphnia magna 101 mg/l, 48 h ASTM E729-80
Fish	LC50	Oncorhynchus mykiss 0.89 mg/l, 96 h
<i>Chronic</i>		
Crustacea	NOEC	Daphnia magna 0.79 mg/l, 21 d
Fish	NOEC	Oncorhynchus mykiss 1.2 mg/l, 61 d OECD 210
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

Components	Species		Test Results
ETHANOLAMINE (CAS 141-43-5)			
Aquatic			
<i>Acute</i>			
Algae	EC50	Pseudokirchneriella subcapitata	2.8 mg/l, 72 h OECD 201
Crustacea	EC50	Daphnia magna	65 mg/l, 48 h EU C.2
Fish	LC50	Cyprinus carpio	349 mg/l, 96 h EU C.1
Other	EC10	Activated sludge of a predominantly domestic sewage	> 1000 mg/l, 30 min OECD 209
<i>Chronic</i>			
Crustacea	NOEC	Daphnia magna	0.85 mg/l, 21 d OECD 211
Fish	NOEC	Oryzias latipes	1.24 mg/l, 41 d OECD 210
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
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
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)

DECETH-3	78 % OECD 301 B Result: Readily Biodegradable Test Duration: 28 d
ETHANOL	84 % Result: Readily Biodegradable Test Duration: 20 d
ETHANOLAMINE	> 90 % OECD 301 A Result: Readily Biodegradable Test Duration: 21 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)

ETHANOL	-0.31
ETHANOLAMINE	-2.3 OECD 107
GLYCERYL LAURYL ETHER	3.79 - 4.25
PEG-4 RAPESEEDAMIDE	5

Bioaccumulation

ETHANOLAMINE	Result: Bioaccumulation is unlikely.
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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	
FINISHED GOODS	
UN number	UN1760
UN proper shipping name	CORROSIVE LIQUID, N.O.S. (AMMONIUM HYDROXIDE, ETHANOLAMINE), Limited Quantity
Class	8
Packing group	II
Transport hazard class(es)	
Label(s)	Limited Quantity
Packaging exceptions	154
LTD QTY Net Inner Capacity	1.0 L
BULK	
UN number	UN1760

UN proper shipping name CORROSIVE LIQUID, N.O.S. (AMMONIUM HYDROXIDE, ETHANOLAMINE)
Class 8
Packing group II
Transport hazard class(es)
Label(s) 8
Special provisions B2, IB2, T11, TP2, TP27
Packaging non bulk 202

IATA

FINISHED GOODS

UN number UN1760
UN proper shipping name CORROSIVE LIQUID, N.O.S. (AMMONIUM HYDROXIDE, ETHANOLAMINE)
Class 8
Packing group II
Transport hazard class(es)
Label(s) Class 8, Limited Quantity
ERG Number 8L
LTD QTY Net Inner Capacity 0.1 L

BULK

UN number UN1760
UN proper shipping name CORROSIVE LIQUID, N.O.S. (AMMONIUM HYDROXIDE, ETHANOLAMINE)
Class 8
Packing group II
ERG Number 8L

IMDG

FINISHED GOODS

UN number UN1760
UN proper shipping name CORROSIVE LIQUID, N.O.S. (AMMONIUM HYDROXIDE, ETHANOLAMINE), Limited Quantity
Class 8
Packing group II
Environmental Hazards
Marine pollutant No.
Transport hazard class(es)
Label(s) Limited Quantity
EmS F-A, S-B
LTD QTY Net Inner Capacity 1.0 L

BULK

UN number UN1760
UN proper shipping name CORROSIVE LIQUID, N.O.S. (AMMONIUM HYDROXIDE, ETHANOLAMINE)
Class 8
Packing group II
Environmental hazards
Marine pollutant No.
EmS F-A, S-B

General information

In accordance with international transport regulations products associated with this document have been determined to have a flash point greater than 35°C and fire point greater than 100°C, therefore these materials are exempt from flammable liquid transport regulations.

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)

AMMONIUM HYDROXIDE (CAS 1336-21-6) Listed.
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)**

Chemical name	CAS number	% by wt.
AMMONIUM HYDROXIDE	1336-21-6	1.23

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** 01-24-2020**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.