SAFETY DATA SHEET

1. Identification

Product identifier **MATRIX TOTAL RESULTS BIG BLONDE ENERGY CONDITIONER**

Other means of identification

SDS number 00-12-0000785

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 Not classified.

Health hazards

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 1
Specific target organ toxicity, repeated exposure	Category 2

OSHA defined hazards Not classified.

Label elements

Signal word Danger

Hazard statement Causes skin irritation. Causes serious eye damage. May cause damage to organs through prolonged or repeated exposure.

Precautionary statement

Prevention Do not breathe mist/vapors. 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 it before reuse.

Storage Store away from incompatible materials.

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	%
GLYCERIN		56-81-5	5
BEHENTRIMONIUM CHLORIDE		68607-24-9	3.56
BIS-CETEARYL AMODIMETHICONE		1126942-72-0	1.8
CITRIC ACID		77-92-9	1.2
ISOPROPYL ALCOHOL		67-63-0	1.11
DICETYLDIMONIUM CHLORIDE		68391-05-9	1.05

*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 redness and pain. Prolonged exposure may cause chronic effects.
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	If you feel unwell, seek medical advice (show the label where possible). 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 methods	Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards	No 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 breathe mist/vapors. 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.

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 breathe mist/vapors. Do not get this material in contact with eyes. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Store in 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

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	Form
GLYCERIN (CAS 56-81-5)	PEL	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.
ISOPROPYL ALCOHOL (CAS 67-63-0)	PEL	980 mg/m3	
		400 ppm	

US. ACGIH Threshold Limit Values

Components	Type	Value
ISOPROPYL ALCOHOL (CAS 67-63-0)	STEL	400 ppm
	TWA	200 ppm

US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value
ISOPROPYL ALCOHOL (CAS 67-63-0)	STEL	1225 mg/m3
		500 ppm
	TWA	980 mg/m3
		400 ppm

Biological limit values

ACGIH Biological Exposure Indices

Components	Value	Determinant	Specimen	Sampling Time
ISOPROPYL ALCOHOL (CAS 67-63-0)	40 mg/l	Acetone	Urine	*

* - For sampling details, please see the source document.

Appropriate engineering controls

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. Chemical respirator with organic vapor cartridge and full facepiece.

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. Chemical respirator with organic vapor cartridge and full facepiece.
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.
General hygiene considerations	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	White
Odor	Characteristic.
Odor threshold	Not available.
pH	3 - 4
Melting point/freezing point	Not available.
Initial boiling point and boiling range	> 212 °F (> 100 °C)
Flash point	> 212.0 °F (> 100.0 °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	
Density	>= 0.98 g/cm³
Explosive properties	Not explosive.
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. 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.

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.

Product	Species	Test Results
MATRIX TOTAL RESULTS BIG BLONDE ENERGY CONDITIONER		
Acute		
Dermal		
ATEmix		220300 mg/kg
Oral		
ATEmix		36400 mg/kg

Components	Species	Test Results
BEHENTRIMONIUM CHLORIDE (CAS 68607-24-9)		
Acute		
Oral		
LD50	Rat	3190 mg/kg OECD 401
BIS-CETEARYL AMODIMETHICONE (CAS 1126942-72-0)		
Acute		
Dermal		
LD50	Rat	> 2000 mg/kg OECD 402
Oral		
LD50	Rat	> 2000 mg/kg OECD 423
CITRIC ACID (CAS 77-92-9)		
Acute		
Dermal		
LD50	Rat	> 2000 mg/kg bw OECD 402
Oral		
LD50	Mouse	5400 mg/kg bw OECD 401
DICETYLDIMONIUM CHLORIDE (CAS 68391-05-9)		
Acute		
Oral		
LD50	Rat	960 mg/kg
GLYCERIN (CAS 56-81-5)		
Acute		
Dermal		
LD50	Rabbit	> 18700 mg/kg bw
Inhalation		
LC50	Rat	> 570 mg/L air, 1 h
Oral		
LD50	Rat	27200 mg/kg bw

Components	Species	Test Results
ISOPROPYL ALCOHOL (CAS 67-63-0)		
Acute		
Dermal		
LD50	Rabbit	16.4 ml/kg bw OECD 402
Inhalation		
Vapor		
LC50	Rat	> 10000 ppm, 6 Hours OECD 403
Oral		
LD50	Rat	5840 mg/kg OECD 401

Skin corrosion/irritation Causes skin irritation.

Irritation Corrosion - Skin

DICETYLDIMONIUM CHLORIDE	OECD 404 Result: Corrosive Species: Rabbit
BIS-CETEARYL AMODIMETHICONE	OECD 404 Result: Irritating Species: Rabbit
CITRIC ACID	OECD 404 Result: Slightly Irritating Species: Rabbit
BEHENTRIMONIUM CHLORIDE	OECD 405 Result: Irritating Species: Rabbit
GLYCERIN	Result: Not Irritating Species: Rabbit
ISOPROPYL ALCOHOL	Result: Not Irritating Species: Rabbit

Serious eye damage/eye irritation Causes serious eye damage.

Irritation Corrosion - Eye

BEHENTRIMONIUM CHLORIDE	OECD 404 Result: Corrosive Species: Rabbit
DICETYLDIMONIUM CHLORIDE	OECD 405 Result: Corrosive Species: Rabbit
BIS-CETEARYL AMODIMETHICONE	OECD 405 Result: Irritating Species: Rabbit
CITRIC ACID	OECD 405 Result: Irritating Species: Rabbit
ISOPROPYL ALCOHOL	OECD 405 Result: Severely Irritating Species: Rabbit
GLYCERIN	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

GLYCERIN	167 mg/m3 air OECD 413, Inhalation Result: NOAEL Species: Rat Test Duration: 90 d
BEHENTRIMONIUM CHLORIDE	OECD 406 Result: Not Sensitizing Species: Guinea pig
BIS-CETEARYL AMODIMETHICONE	OECD 406 Result: Not Sensitizing Species: Guinea pig

Skin sensitization

DICETYLDIMONIUM CHLORIDE	OECD 406 Result: Not Sensitizing Species: Guinea pig
ISOPROPYL ALCOHOL	OECD 406 Result: Not Sensitizing Species: Guinea pig
CITRIC ACID	OECD 406 Result: Not Sensiziting Species: Guinea pig
GLYCERIN	Result: Not Sensitizing Species: Guinea pig

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

Mutagenicity

CITRIC ACID	Result: In vitro and in vivo tests did not show mutagenic effects.
GLYCERIN	Result: In vitro and in vivo tests did not show mutagenic effects.
ISOPROPYL ALCOHOL	Result: In vitro and in vivo tests did not show mutagenic effects.
BEHENTRIMONIUM CHLORIDE	Result: In vitro tests did not show mutagenic effects
DICETYLDIMONIUM CHLORIDE	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 Due to partial or complete lack of data the classification is not possible.

Developmental effects

CITRIC ACID	> 295 mg/kg bw/d, No effects on development Result: NOAEL Species: Rat
DICETYLDIMONIUM CHLORIDE	12 mg/kg bw/d OECD 414 Result: NOAEL Species: Rat
GLYCERIN	1310 mg/kg bw/d, No effects on development Result: NOAEL Species: Rat
ISOPROPYL ALCOHOL	400 mg/kg bw/d OECD 414, No effects on development Result: NOAEL Species: Rabbit

Reproductivity

ISOPROPYL ALCOHOL	1000 mg/kg bw/d OECD 416, No effects on fertility Result: NOAEL Species: Rat
GLYCERIN	2000 mg/kg bw/d, No effects on fertility Result: NOAEL Species: Rat
CITRIC ACID	2500 mg/kg bw/d, No effects on fertility Result: NOAEL Species: Rat
DICETYLDIMONIUM CHLORIDE	56.3 mg/kg bw/d OECD 416 Result: NOAEL Species: Rat
BEHENTRIMONIUM CHLORIDE	75 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 May cause damage to organs through prolonged or repeated exposure.

Specific target organ toxicity - repeated exposure

BEHENTRIMONIUM CHLORIDE	10 mg/kg bw/d OECD 407, Oral Result: NOAEL Species: Rat Test Duration: 28 d
CITRIC ACID	4000 mg/kg bw/d, Oral Result: NOAEL Species: Rat Test Duration: 10 d
DICETYLDIMONIUM CHLORIDE	42 - 49 mg/kg bw/d OECD 408, Oral Result: NOAEL Species: Rat Test Duration: 93 d
ISOPROPYL ALCOHOL	5000 ppm OECD 413, Inhalation Result: NOALE Species: Rat Test Duration: 90 d
GLYCERIN	8000 mg/kg bw/d, Oral Result: NOAEL Species: Rat Test Duration: 2 yr

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

Chronic effects May cause damage to organs through prolonged or repeated exposure.

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
BEHENTRIMONIUM CHLORIDE (CAS 68607-24-9)			
Aquatic			
Acute			
Algae	EC50	Desmodesmus subspicatus	3.48 mg/l, 72 h OECD 201
Crustacea	EC50	Daphnia magna	1.39 mg/l, 48 h OECD 202
Fish	LC50	Danio rerio	0.5 - 1 mg/l, 96 h OECD 203
Other	EC50	Activated sludge of a predominantly domestic sewage	43 mg/l, 3 h OECD 209
Chronic			
Crustacea	NOEC	Daphnia magna	0.128 mg/l, 21 d OECD 211
Fish	NOEC	Danio rerio	0.24 mg/l, 9 d OECD 212
CITRIC ACID (CAS 77-92-9)			
Aquatic			
Algae	EC50	Microcystis aeruginosa	80 mg/l, 7 d
Crustacea	LC50	Daphnia magna	1535 mg/l, 24 h
Fish	LC50	Leuciscus idus	440 - 760 mg/l, 96 h OECD 203
Other	EC50	Pseudomonas putida	4235 mg/l, 18 h OECD 209
DICETYLDIMONIUM CHLORIDE (CAS 68391-05-9)			
Aquatic			
Acute			
Algae	EC50	Pseudokirchneriella subcapitata	0.386 mg/l, 72 h OECD 201
Crustacea	EC50	Acartia tonsa	0.295 mg/l, 48 h ISO 14669
Fish	LC50	Danio rerio	0.26 mg/l, 96 h OECD 203
Other	EC50	Activated sludge of a predominantly domestic sewage	68 mg/l, 3 h OECD 209

Components		Species	Test Results
Chronic			
Algae	NOEC	Pseudokirchneriella subcapitata	0.06 mg/l, 72 h OECD 201
Crustacea	NOEC	Daphnia magna	0.5 mg/l, 21 d OECD 202
Fish	NOEC	Pimephales promelas	0.23 mg/l, 35 d EPA-66013-75-00
GLYCERIN (CAS 56-81-5)			
Aquatic			
Acute			
Algae	EC0	Scenedesmus quadricauda	> 10000 mg/l, 192 h
Crustacea	EC50	Daphnia magna	1955 mg/l, 48 h
Fish	LC50	Oncorhynchus mykiss	54000 mg/l, 96 h
Other	NOEC	Pseudomonas putida	> 10000 mg/l, 16 h
ISOPROPYL ALCOHOL (CAS 67-63-0)			
Aquatic			
Acute			
Algae	EC50	Scenedesmus quadricauda	> 1000 mg/l, 72 h
Crustacea	EC50	Daphnia magna	9714 mg/l, 24 h OECD 202
Fish	LC50	Pimephales promelas	9640 mg/l, 96 h OECD 203
Other	TD	Pseudomonas putida	1050 mg/l, 16 DIN 38412, Pt. 8

Persistence and degradability

Biodegradability

Percent degradation (Aerobic biodegradation)

BEHENTRIMONIUM CHLORIDE	80 % OECD 301 Result: Readily Biodegradable Test Duration: 28 d
CITRIC ACID	97 % OECD 301 B Test Duration: 28 d
DICETYLDIMONIUM CHLORIDE	61 % OECD 301 B Result: Readily Biodegradable Test Duration: 28 d
GLYCERIN	OECD 301 Result: Readily Biodegradable
ISOPROPYL ALCOHOL	95 % OECD 301 E Result: Readily Biodegradable Test Duration: 21 d

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

DICETYLDIMONIUM CHLORIDE	4.7 - 4.9 OECD 123
GLYCERIN	-1.76
ISOPROPYL ALCOHOL	0.05

Bioaccumulation

ISOPROPYL ALCOHOL	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.

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.

IATA

FINISHED GOODS

Not regulated as dangerous goods.

BULK

Not regulated as dangerous goods.

IMDG

FINISHED GOODS

Not regulated as dangerous goods.

BULK

Not regulated as dangerous goods.

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)

ISOPROPYL ALCOHOL (CAS 67-63-0) 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.
ISOPROPYL ALCOHOL	67-63-0	1.11

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

GLYCERIN (CAS 56-81-5) Other Flavoring Substances with OSHA PEL's
ISOPROPYL ALCOHOL (CAS 67-63-0) Low priority

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

Issue date 12-16-2020

Version # 01

NFPA ratings Health: 3
Flammability: 1
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.