

# SAFETY DATA SHEET

## 1. Identification

**Product identifier** MATRIX TOTAL RESULTS FAUX REAL SHAMPOO

**Other means of identification**

**SDS number** 00-11-0000326

**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 2A

**OSHA defined hazards** Not classified.

### Label elements



**Signal word** Warning

**Hazard statement** Causes skin irritation. Causes serious eye irritation.

**Precautionary statement**

**Prevention** Wash thoroughly after handling. Wear eye protection/face protection. Wear protective gloves.

**Response** If on skin: Wash with plenty of water. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If skin irritation occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash before reuse.

**Storage** Store away from incompatible materials.

**Disposal** Dispose of waste and residues in accordance with local authority requirements.

**Hazard(s) not otherwise classified (HNOC)** None known.

Supplemental information None.

### 3. Composition/information on ingredients

#### Mixtures

Chemical name	Common name and synonyms	CAS number	%
SODIUM C14-16 OLEFIN SULFONATE		68439-57-6	10
COCAMIDE MEA		68140-00-1	2
GLYCERIN		56-81-5	2
SODIUM LAUROYL SARCOSINATE		137-16-6	1.47
HEXYLENE GLYCOL		107-41-5	1

\*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>	Remove contaminated clothing. Wash with plenty of soap and water. 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 if irritation develops and persists.
<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. 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. Keep victim under observation. Symptoms may be delayed.
<b>General information</b>	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

### 5. Fire-fighting measures

<b>Suitable extinguishing media</b>	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO <sub>2</sub> ).
<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>	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>	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>	No unusual fire or explosion hazards noted.

### 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. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
<b>Methods and materials for containment and cleaning up</b>	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.
<b>Environmental precautions</b>	Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Avoid discharge into drains, water courses or onto the ground.

## 7. Handling and storage

**Precautions for safe handling** 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 original tightly closed container. Keep out of the reach of children. Store away from incompatible materials (see Section 10 of the SDS).

## 8. Exposure controls/personal protection

### 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/m <sup>3</sup> 15 mg/m <sup>3</sup>	Respirable fraction. Total dust.

#### US. ACGIH Threshold Limit Values

Components	Type	Value
HEXYLENE GLYCOL (CAS 107-41-5)	Ceiling	25 ppm

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

Components	Type	Value
HEXYLENE GLYCOL (CAS 107-41-5)	Ceiling	125 mg/m <sup>3</sup>  25 ppm

**Biological limit values** No biological exposure limits noted for the ingredient(s).

**Appropriate engineering controls** Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station. Eye wash fountain and emergency showers are recommended.

### Individual protection measures, such as personal protective equipment

**Eye/face protection** Face shield is recommended. Wear safety glasses with side shields (or goggles).

#### Skin protection

**Hand protection** Wear appropriate chemical resistant gloves.

**Other** Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.

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

**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** Viscous Liquid

**Color** Pink.

**Odor** Characteristic.

**Odor threshold** Not available.

**pH** 5.3 - 5.7

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

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

**Flash point** > 212.0 °F (> 100.0 °C)

**Evaporation rate** Not available.

<b>Flammability (solid, gas)</b>	Not applicable.
<b>Upper/lower flammability or explosive limits</b>	
<b>Flammability limit - lower (%)</b>	Not available.
<b>Flammability limit - upper (%)</b>	Not available.
<b>Vapor pressure</b>	Not available.
<b>Vapor density</b>	Not available.
<b>Specific gravity</b>	Not available.
<b>Solubility(ies)</b>	
<b>Solubility (water)</b>	Not available.
<b>Partition coefficient (n-octanol/water)</b>	Not available.
<b>Auto-ignition temperature</b>	Not available.
<b>Decomposition temperature</b>	Not available.
<b>Viscosity</b>	Not available.
<b>Other information</b>	
<b>Explosive properties</b>	Not explosive.
<b>Oxidizing properties</b>	Not oxidizing.

## 10. Stability and reactivity

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

## 11. Toxicological information

### Information on likely routes of exposure

<b>Inhalation</b>	Prolonged inhalation may be harmful.
<b>Skin contact</b>	Causes skin irritation.
<b>Eye contact</b>	Causes serious eye irritation.
<b>Ingestion</b>	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. Skin irritation. May cause redness and pain.

### Information on toxicological effects

**Acute toxicity** Not known.

<b>Components</b>	<b>Species</b>	<b>Test Results</b>
COCAMIDE MEA (CAS 68140-00-1)		
<b>Acute</b>		
<b>Dermal</b>		
LD50	Rabbit	> 2000 mg/kg bw
<b>Oral</b>		
LD50	Rat	> 3000 mg/kg bw OECD 401
GLYCERIN (CAS 56-81-5)		
<b>Acute</b>		
<b>Dermal</b>		
LD50	Rabbit	> 18700 mg/kg bw

Components	Species	Test Results
<b>Inhalation</b>		
LC50	Rat	> 570 mg/L air, 1 h
<b>Oral</b>		
LD50	Rat	27200 mg/kg bw
HEXYLENE GLYCOL (CAS 107-41-5)		
<b>Acute</b>		
<b>Dermal</b>		
LD50	Rat	> 2000 mg/kg OECD 402
<b>Inhalation</b>		
LC50	Rat	> 60 ml/m <sup>3</sup> air, 8 h OECD 403
<b>Oral</b>		
LD50	Rat	> 2000 mg/kg OECD 420
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
SODIUM LAUROYL SARCOSINATE (CAS 137-16-6)		
<b>Acute</b>		
<b>Inhalation</b>		
<i>Aerosol</i>		
LC50	Rat	1 - 5 mg/l, 4 h OECD 403
<b>Oral</b>		
LD50	Rat	> 5000 mg/kg OECD 401

\* Estimates for product may be based on additional component data not shown.

**Skin corrosion/irritation** Causes skin irritation.

**Irritation Corrosion - Skin**

COCAMIDE MEA	OECD 404 Result: Irritating Species: Rabbit
SODIUM C14-16 OLEFIN SULFONATE	OECD 404 Result: Irritating Species: Rabbit
SODIUM LAUROYL SARCOSINATE	OECD 404, 30% Sol. Result: Slightly Irritating Species: Rabbit
HEXYLENE GLYCOL	OECD 405 Result: Slightly irritating Species: Rabbit
GLYCERIN	Result: Not Irritating Species: Rabbit

**Serious eye damage/eye irritation** Causes serious eye irritation.

**Irritation Corrosion - Eye**

COCAMIDE MEA	OECD 405 Result: Corrosive Species: Rabbit
HEXYLENE GLYCOL	OECD 405 Result: Slightly irritating Species: Rabbit

**Irritation Corrosion - Eye**

SODIUM LAUROYL SARCOSINATE	OECD 405, 30% Sol. Result: Irritating Species: Rabbit
SODIUM C14-16 OLEFIN SULFONATE	OECD 405, 5% < C ≤ 38% Result: Irritating Species: Rabbit OECD 405, C >38% Result: Corrosive Species: Rabbit
HEXYLENE GLYCOL	Result: Irritating Species: Human
GLYCERIN	Result: Not Irritating Species: Rabbit

**Respiratory or skin sensitization**

<b>Respiratory sensitization</b>	Not a respiratory sensitizer.
<b>Skin sensitization</b>	This product is not expected to cause skin sensitization.

**Skin sensitization**

GLYCERIN	167 mg/m <sup>3</sup> air OECD 413, Inhalation Result: NOAEL Species: Rat Test Duration: 90 d
SODIUM LAUROYL SARCOSINATE	EU B.6 Result: Not Sensitizing Species: Guinea pig
COCAMIDE MEA	OECD 406 Result: Not Sensitizing Species: Guinea pig
HEXYLENE GLYCOL	OECD 406 Result: Not Sensitizing Species: Guinea pig
SODIUM C14-16 OLEFIN SULFONATE	OECD 406 Result: Not Sensitizing Species: Guinea pig
GLYCERIN	Result: Not Sensitizing Species: Guinea pig

<b>Germ cell mutagenicity</b>	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
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**Mutagenicity**

GLYCERIN	Result: In vitro and in vivo tests did not show mutagenic effects.
COCAMIDE MEA	Result: In vitro tests did not show mutagenic effects
HEXYLENE GLYCOL	Result: In vitro tests did not show mutagenic effects
SODIUM C14-16 OLEFIN SULFONATE	Result: In vitro tests did not show mutagenic effects
SODIUM LAUROYL SARCOSINATE	Result: In vitro tests did not show mutagenic effects

<b>Carcinogenicity</b>	Not classifiable as to carcinogenicity to humans.
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**IARC Monographs. Overall Evaluation of Carcinogenicity**

Not listed.

**OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)**

Not regulated.

**US. National Toxicology Program (NTP) Report on Carcinogens**

Not listed.

<b>Reproductive toxicity</b>	This product is not expected to cause reproductive or developmental effects.
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**Developmental effects**

COCAMIDE MEA	> 1000 mg/kg bw/d OECD 414, No effects on development Result: NOEL Species: Rat
SODIUM LAUROYL SARCOSINATE	>= 250 mg/kg bw/d OECD 414 Result: NOAEL Species: Rat
SODIUM C14-16 OLEFIN SULFONATE	>= 600 mg/kg bw/d OECD 414 Result: NOAEL Species: Rat

**Developmental effects**

GLYCERIN

1310 mg/kg bw/d, No effects on development

Result: NOAEL

Species: Rat

HEXYLENE GLYCOL

300 mg/kg bw/d OECD 414

Result: NOAEL

Species: Rat

**Reproductivity**

HEXYLENE GLYCOL

1000 mg/kg bw/d OECD 421

Result: NOEL

Species: Rat

GLYCERIN

2000 mg/kg bw/d, No effects on fertility

Result: NOAEL

Species: Rat

**Specific target organ toxicity - single exposure** Not classified.**Specific target organ toxicity - repeated exposure** Not classified.

COCAMIDE MEA

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

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

SODIUM LAUROYL SARCOSINATE

250 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

GLYCERIN

8000 mg/kg bw/d, Oral

Result: NOAEL

Species: Rat

Test Duration: 2 yr

**Aspiration hazard** Not an aspiration hazard.**12. Ecological information****Ecotoxicity**

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

Components		Species	Test Results
COCAMIDE MEA (CAS 68140-00-1)			
<b>Aquatic</b>			
<i>Acute</i>			
Algae	EC50	Desmodesmus subspicatus	3.9 mg/l, 72 h OECD 201
Crustacea	EC50	Daphnia magna	3 mg/l, 48 h OECD 202
Fish	LC50	Oncorhynchus mykiss	> 3 mg/l, 96 h OECD 203
Other	EC50	Pseudomonas putida	6000 mg/l, 16 h DIN 38412, Pt. 8
GLYCERIN (CAS 56-81-5)			
<b>Aquatic</b>			
<i>Acute</i>			
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

Components	Species	Test Results
<b>HEXYLENE GLYCOL (CAS 107-41-5)</b>		
<b>Aquatic</b>		
<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
<b>SODIUM C14-16 OLEFIN SULFONATE (CAS 68439-57-6)</b>		
<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
<b>SODIUM LAUROYL SARCOSINATE (CAS 137-16-6)</b>		
<b>Aquatic</b>		
<i>Acute</i>		
Algae	EC50	Desmodesmus subspicatus 23.7 mg/l, 72 h OECD 201
Crustacea	EC50	Daphnia magna 8.91 mg/l, 48 h OECD 202
Fish	LC50	Danio rerio 32.1 mg/l, 96 h OECD 203
Other	EC50	Activated sludge of a predominantly domestic sewage > 1000 mg/l, 3 h OECD 209

\* Estimates for product may be based on additional component data not shown.

#### Persistence and degradability

##### Biodegradability

###### Percent degradation (Aerobic biodegradation)

COCAMIDE MEA	99 % OECD 301 B Result: Readily Biodegradable Test Duration: 28 d
GLYCERIN	OECD 301 Result: Readily Biodegradable
HEXYLENE GLYCOL	81 % OECD 301 F Result: Readily biodegradable Test Duration: 28 d
SODIUM C14-16 OLEFIN SULFONATE	80 % OECD 301 B Result: Readily Biodegradable Test Duration: 28 d
SODIUM LAUROYL SARCOSINATE	82 % ISO 14593 Result: Readily Biodegradable Test Duration: 28 d

##### Bioaccumulative potential

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

GLYCERIN	-1.76
SODIUM C14-16 OLEFIN SULFONATE	-1.3 EU A.8

###### Bioaccumulation

COCAMIDE MEA	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

<b>Disposal instructions</b>	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.
<b>Local disposal regulations</b>	Dispose in accordance with all applicable regulations.
<b>Hazardous waste code</b>	Not regulated.
<b>Waste from residues / unused products</b>	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).
<b>Contaminated packaging</b>	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.

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

Not regulated.

#### CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

#### SARA 304 Emergency release notification

Not regulated.

#### OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

#### Superfund Amendments and Reauthorization Act of 1986 (SARA)

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

#### SARA 302 Extremely hazardous substance

Not listed.

**SARA 311/312 Hazardous chemical** No

#### 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**

GLYCERIN (CAS 56-81-5)

Other Flavoring Substances with OSHA PEL's

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

**Issue date** 11-19-2018

**Version #** 01

**NFPA ratings** Health: 2  
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.