

SAFETY DATA SHEET

1. Identification

Product identifier MATRIX TOTAL RESULTS SO SILVER CONDITIONER

Other means of identification

SDS number 00-12-0000419

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

OSHA defined hazards Not classified.

Label elements



Signal word Danger

Hazard statement Causes skin irritation. Causes serious eye damage.

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. 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 waste and residues in accordance with local authority requirements.

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

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
CETRIMONIUM CHLORIDE		112-02-7	1
DICETYLDIMONIUM CHLORIDE		68391-05-9	1

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

4. First-aid measures

Inhalation	Move to fresh air. Call a physician if symptoms develop or persist.
Skin contact	Remove contaminated clothing. 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.
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	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 (CO ₂).
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	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 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 get this material in contact with eyes. Avoid contact with eyes, skin, and clothing. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.
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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).
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8. Exposure controls/personal protection

Biological limit values	No biological exposure limits noted for the ingredient(s).
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. 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. 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.
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9. Physical and chemical properties

Appearance

Physical state	Liquid.
Form	Cream.
Color	White

Odor	Characteristic.
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Odor threshold	Not available.
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pH	3 - 4
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Melting point/freezing point	Not available.
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Initial boiling point and boiling range	> 212 °F (> 100 °C)
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Flash point	> 212.0 °F (> 100.0 °C) Closed Cup
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Evaporation rate	Not available.
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Flammability (solid, gas)	Not applicable.
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Upper/lower flammability or explosive limits

Flammability limit - lower (%)	Not available.
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Flammability limit - upper (%)	Not available.
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Explosive limit - lower (%)	Not available.
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Explosive limit - upper (%)	Not available.
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Vapor pressure	Not available.
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Vapor density	Not available.
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Relative density	Not available.
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Solubility(ies)

Solubility (water)	Not available.
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Partition coefficient (n-octanol/water)	Not available.
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Auto-ignition temperature	Not available.
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Decomposition temperature	Not available.
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Viscosity	Not available.
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Other information

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	No adverse effects due to inhalation are expected.
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.
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Information on toxicological effects

Acute toxicity	Not known.
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Product	Species	Test Results
MATRIX TOTAL RESULTS SO SILVER CONDITIONER		

Acute

Dermal

ATEmix	48310 mg/kg
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Oral

ATEmix	35970 mg/kg
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Components	Species	Test Results
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CETRIMONIUM CHLORIDE (CAS 112-02-7)

Acute

Dermal

LD50	Rabbit	528 mg/kg OECD 402
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Oral

LD50	Rat	699 mg/kg OECD 401
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DICETYLDIMONIUM CHLORIDE (CAS 68391-05-9)

Acute

Oral

LD50	Rat	960 mg/kg
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Skin corrosion/irritation	Causes skin irritation.
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Irritation Corrosion - Skin

CETRIMONIUM CHLORIDE

OECD 404
Result: Corrosive
Species: Rabbit
OECD 404
Result: Corrosive
Species: Rabbit

DICETYLDIMONIUM CHLORIDE

Serious eye damage/eye irritation	Causes serious eye damage.
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Irritation Corrosion - Eye

CETRIMONIUM CHLORIDE

OECD 405

Result: Corrosive

Species: Rabbit

DICETYLDIMONIUM CHLORIDE

OECD 405

Result: Corrosive

Species: Rabbit

Respiratory or skin sensitization**Respiratory sensitization** Not a respiratory sensitizer.**Skin sensitization** This product is not expected to cause skin sensitization.**Skin sensitization**

CETRIMONIUM CHLORIDE

OECD 406

Result: Not Sensitizing

Species: Guinea pig

DICETYLDIMONIUM CHLORIDE

OECD 406

Result: Not Sensitizing

Species: Guinea pig

Germ cell mutagenicity

No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Mutagenicity

CETRIMONIUM 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.

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

This product is not expected to cause reproductive or developmental effects.

Developmental effects

DICETYLDIMONIUM CHLORIDE

12 mg/kg bw/d OECD 414

Result: NOAEL

Species: Rat

Reproductivity

DICETYLDIMONIUM CHLORIDE

56.3 mg/kg bw/d OECD 416

Result: NOAEL

Species: Rat

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

CETRIMONIUM CHLORIDE

100 mg/kg bw/d OECD 407

Result: NOAEL

Species: Rat

Test Duration: 28 d

DICETYLDIMONIUM CHLORIDE

42 - 49 mg/kg bw/d OECD 408, Oral

Result: NOAEL

Species: Rat

Test Duration: 93 d

Aspiration hazard

Not an aspiration hazard.

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
CETRIMONIUM CHLORIDE (CAS 112-02-7)			
Aquatic			
Acute			
Algae	EC50	Pseudokirchneriella subcapitata	0.08 mg/l, 72 hours OECD 201
Crustacea	EC50	Daphnia magna	0.09 mg/l, 48 hours OECD 202
Fish	LC50	Danio rerio	0.19 - 0.29 mg/l, 96 hours OECD 203
Other	EC50	Pseudomonas putida	0.96 mg/l, 16 hours DIN 38412; Pt. 8
Chronic			
Algae	NOEC	Pseudokirchneriella subcapitata	0.04 mg/l, 72 hours OECD 201
Crustacea	NOEC	Daphnia magna	0.0068 mg/l, 21 day OECD 211
Fish	NOEC	Pimephales promelas	0.032 mg/l, 28 day US FIFRA 72-4(a)
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
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

Persistence and degradability

Biodegradability

Percent degradation (Aerobic biodegradation)

CETRIMONIUM CHLORIDE

93.5 % OECD 301 B
Result: Readily Biodegradable
Test Duration: 28 d

DICETYL DIMONIUM CHLORIDE

61 % OECD 301 B
Result: Readily Biodegradable
Test Duration: 28 d

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

CETRIMONIUM CHLORIDE

3.23

DICETYL DIMONIUM CHLORIDE

4.7 - 4.9 OECD 123

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)

Not listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous chemical

No (Exempt)

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act (SDWA)

Not regulated.

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

Issue date 03-10-2022

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.