# SAFETY DATA SHEET



#### 1. Identification

Product identifier MATRIX TOTAL RESULTS HIGH AMPLIFY DRY SHAMPOO

Other means of identification

**SDS number** 21-93-0000072

**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 aerosols Category 1

Gases under pressure Liquefied gas

**Health hazards** Serious eye damage/eye irritation Category 2A

OSHA defined hazards Not classified.

Label elements



Signal word Danger

Hazard statement Extremely flammable aerosol. Contains gas under pressure; may explode if heated. Causes

serious eye irritation.

**Precautionary statement** 

Prevention Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not spray on an open

flame or other ignition source. Pressurized container: Do not pierce or burn, even after use.

Wash thoroughly after handling. Wear eye protection/face protection.

Response If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and

easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Storage Protect from sunlight. Store in a well-ventilated place. Do not expose to temperatures exceeding

50°C/122°F.

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

Material name: MATRIX TOTAL RESULTS HIGH AMPLIFY DRY SHAMPOO 88434 MX Version #: 01 Issue date: 09-05-2019

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	%
BUTANE		106-97-8	51.8
ETHANOL		64-17-5	18.55
PROPANE		74-98-6	18.2
ALUMINUM STARCH OCTENYLSUCCINATE		9087-61-0	9.65

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

### 4. First-aid measures

Move to fresh air. Call a physician if symptoms develop or persist. Inhalation

Skin contact Wash off with soap and water. Get medical attention if irritation develops and persists.

Eye contact Immediately flush eves with plenty of water for at least 15 minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Not likely, due to the form of the product. In the unlikely event of swallowing contact a physician or

poison control center. Rinse mouth.

Most important

Ingestion

symptoms/effects, acute and delayed

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred

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

Unsuitable extinguishing

media

Specific hazards arising from the chemical

Special protective equipment and precautions for firefighters

Fire fighting

equipment/instructions

Specific methods

General fire hazards

Water fog. Alcohol resistant foam. Dry chemical powder. Carbon dioxide (CO2).

Do not use water jet as an extinguisher, as this will spread the fire.

Contents under pressure. Pressurized container may explode when exposed to heat or flame.

During fire, gases hazardous to health may be formed.

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

In case of fire: Stop leak if safe to do so. Do not move cargo or vehicle if cargo has been exposed to heat. Move containers from fire area if you can do so without risk. Containers should be cooled with water to prevent vapor pressure build up. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out.

Use standard firefighting procedures and consider the hazards of other involved materials. Move containers from fire area if you can do so without risk. In the event of fire and/or explosion do not

breathe fumes.

Extremely flammable aerosol. Contents under pressure. Pressurized container may explode when

exposed to heat or flame.

## 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Many gases are heavier than air and will spread along ground and collect in low or confined areas (sewers, basements, tanks). Wear appropriate protective equipment and clothing during clean-up. Emergency personnel need self-contained breathing equipment. 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

Refer to attached safety data sheets and/or instructions for use. Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Isolate area until gas has dispersed. Keep combustibles (wood, paper, oil, etc.) away from spilled material. 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. 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

Pressurized container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. All equipment used when handling the product must be grounded. Close valve after each use and when empty. Protect containers from physical damage; do not drag, roll, slide, or drop. When moving containers, even for short distances, use a cart (trolley, hand truck, etc.) designed to transport containers. Suck back of water into the container must be prevented. Do not allow backfeed into the container. Purge air from system before introducing gas. Use only properly specified equipment which is suitable for this product, its supply pressure and temperature. Contact your gas supplier if in doubt. Do not re-use empty containers. Avoid contact with eyes. Avoid prolonged exposure. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

# Conditions for safe storage, including any incompatibilities

Level 3 Aerosol.

Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C/122°F. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. This material can accumulate static charge which may cause spark and become an ignition source. Store in tightly closed container. Store in a well-ventilated place. Stored containers should be periodically checked for general condition and leakage. 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.

Туре	Value				
PEL	1900 mg/m3				
	1000 ppm				
PEL	1800 mg/m3				
	1000 ppm				
Туре	Value	Form			
TWA	1 mg/m3	Respirable fraction.			
STEL	1000 ppm				
STEL	1000 ppm				
US. NIOSH: Pocket Guide to Chemical Hazards					
Туре	Value				
TWA	2 mg/m3				
TWA	1900 mg/m3				
	800 ppm				
TWA	1900 mg/m3				
	1000 ppm				
	PEL PEL Type TWA STEL STEL azards Type TWA TWA	PEL 1900 mg/m3 1000 ppm PEL 1800 mg/m3 1000 ppm  Type Value  TWA 1 mg/m3  STEL 1000 ppm STEL 1000 ppm STEL 1000 ppm Type Value TWA 2 mg/m3  TWA 2 mg/m3  TWA 1900 mg/m3 800 ppm TWA 1900 mg/m3			

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

Components Type Value

TWA

1000 ppm

1800 mg/m3

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

Appropriate engineering

PROPANE (CAS 74-98-6)

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.

Individual protection measures, such as personal protective equipment

Eye/face protection Applicable for industrial settings only. Wear safety glasses with side shields (or goggles).

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 permissible levels are exceeded use NIOSH mechanical

filter / organic vapor cartridge or an air-supplied respirator.

**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 stateLiquid.FormAerosol.ColorWhite.

Odor Characteristic.
Odor threshold Not available.
pH Not available.
Melting point/freezing point Not available.

Initial boiling point and boiling

range

> 95 °F (> 35 °C) Liquid.

Flash point > 55.4 °F (> 13.0 °C) Closed Cup Liquid.

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 densityNot available.Relative densityNot available.

Solubility(ies)

Solubility (water) Not available.

Partition coefficient Not available.

(n-octanol/water)

Auto-ignition temperature Not available.

Decomposition temperature Not available.

Viscosity Not available.

Other information

**Explosive properties** Not explosive. **Heat of combustion (NFPA** > 35.12 kJ/g

30B)

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. Chlorine. Fluorine. Nitrates.

Hazardous decomposition No hazardous decomposition products are known.

products

products

11. Toxicological information

Information on likely routes of exposure
Inhalation Prolonged inhalation may be harmful.

**Skin contact** No adverse effects due to skin contact are expected.

**Eye contact** Causes serious eye irritation.

**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.

Information on toxicological effects

Acute toxicity Not known.

Product Species Test Results

MATRIX TOTAL RESULTS HIGH AMPLIFY DRY SHAMPOO

<u>Acute</u> Dermal

ATEmix 681800 mg/kg

Components Species Test Results

ALUMINUM STARCH OCTENYLSUCCINATE (CAS 9087-61-0)

**Acute** 

Inhalation

LD50 Rat > 200 mg/L air, 1 h

Oral

LD50 Rat > 3000 mg/kg bw

**BUTANE (CAS 106-97-8)** 

Acute

Gas

Inhalation

LC50 Mouse

1237 mg/l, 2 Hours

ETHANOL (CAS 64-17-5)

**Acute** 

Dermal

LD50 Rabbit > 20000 mg/kg

Inhalation

Vapor

LC50 Rat 124.7 mg/l, 4 h OECD 403

Material name: MATRIX TOTAL RESULTS HIGH AMPLIFY DRY SHAMPOO 88434 MX Version #: 01 Issue date: 09-05-2019

Components **Species Test Results** 

Oral

10470 mg/kg OECD 401 LD50 Rat

Skin corrosion/irritation Due to partial or complete lack of data the classification is not possible. No adverse effects due to

skin contact are expected.

Irritation Corrosion - Skin

**ETHANOL OECD 404** 

Result: Not Irritating Species: Rabbit

**BUTANE** Result: Contact with liquid form may cause frostbite.

Serious eye damage/eye

irritation

Causes serious eye irritation.

**Irritation Corrosion - Eye** 

ALUMINUM STARCH OCTENYLSUCCINATE **Draize Test** 

Result: Not Irritating Species: Rabbit **OECD 405** 

Result: Irritating Species: Rabbit

**BUTANE** Result: Contact with liquid form may cause frostbite.

Respiratory or skin sensitization

**ETHANOL** 

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

ALUMINUM STARCH OCTENYLSUCCINATE **GPMT** 

> Result: Not Sensitizing Species: Guinea pig

**ETHANOL** OECD 406

> Result: Not Sensitizing Species: Guinea pig

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

Mutagenicity

**BUTANE** Result: In vitro and in vivo tests did not show mutagenic

**ETHANOL** Result: In vitro and in vivo tests did not show mutagenic

effects.

Not classifiable as to carcinogenicity to humans. Due to partial or complete lack of data the Carcinogenicity

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.

Possible reproductive hazard. Reproductive toxicity

**Developmental effects** 

**ETHANOL** > 20000 ppm OECD 414, No effects on development

Result: NOAEL Species: Rat

19678 mg/m³ OECD 422 BUTANE

Result: NOAEC Species: Rat

Reproductivity

**ETHANOL** 20700 mg/kg bw/d OECD 416, No effects on fertility

Result: NOAEL Species: Rat

**BUTANE** 7131 mg/m<sup>3</sup> OECD 422

> Result: NOAEC Species: Rat

Due to partial or complete lack of data the classification is not possible. Specific target organ toxicity single exposure

Material name: MATRIX TOTAL RESULTS HIGH AMPLIFY DRY SHAMPOO

Specific target organ toxicity -

repeated exposure **ETHANOL** 

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

1730 mg/kg bw/d OECD 408, Oral Result: NOAEL Species: Rat

7214 mg/m3 OECD 422 **BUTANE** 

> Result: NOAEC Species: Rat Test Duration: 28 d

Due to partial or complete lack of data the classification is not possible. **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	
ETHANOL (CAS 64-1	7-5)			
Aquatic				
Acute				
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	
Chronic				
Crustacea	NOEC	Daphnia magna	9.6 mg/l, 9 d	
Fish	NOEC	Danio rerio	250 mg/l, 120 h OECD 212	

#### Persistence and degradability

Biodegradability

Percent degradation (Aerobic biodegradation)

**BUTANE** 100 %

> Result: Readily Biodegradable Test Duration: 385.5 Hours

84 % **ETHANOL** 

Result: Readily Biodegradable

Test Duration: 20 d

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

2.89 BUTANE **ETHANOL** -0.31**PROPANE** 2.36

No data available. Mobility in soil

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. Contents

under pressure. Do not puncture, incinerate or crush. Dispose of contents/container in accordance

with local/regional/national/international regulations.

Local disposal regulations Dispose in accordance with all applicable regulations.

This product is ignitable (D001) RCRA hazardous wastes when intended for disposal. Hazardous waste code

Waste from residues / unused

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: products

Disposal instructions).

Since emptied containers may retain product residue, follow label warnings even after container is Contaminated packaging

emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal. Do not re-use empty containers.

# 14. Transport information

#### DOT

#### **FINISHED GOODS**

**UN** number UN1950

**UN proper shipping name** AEROSOLS, FLAMMABLE, Limited Quantity

Class

Packing group Not applicable.

Transport hazard class(es)

Limited Quantity Label(s)

Packaging exceptions 306

**BULK** 

**UN** number UN1170

**ETHANOL SOLUTION UN** proper shipping name

**Class** 3 Ш Packing group Transport hazard class(es) Label(s) 3

Special provisions 24, IB2, T4, TP1

Packaging non bulk 202

IATA

#### **FINISHED GOODS**

ID8000 **UN number** 

CONSUMER COMMODITY **UN** proper shipping name

9 - Class 9 Class Not applicable. **Packing group** 

Transport hazard class(es)

Class 9, Limited Quantity Label(s)

**ERG Number** LTD QTY Net Inner Capacity 0.5 L

**BULK** 

**UN** number UN1170

**UN** proper shipping name **ETHANOL SOLUTION** 

3 **Class** Ш Packing group **ERG Number** 3L

**IMDG** 

## **FINISHED GOODS**

UN1950 **UN** number

AEROSOLS, FLAMMABLE, Limited Quantity UN proper shipping name

Class

**Packing group** Not applicable.

**Environmental Hazards** 

Marine pollutant No. Transport hazard class(es)

Limited Quantity Label(s) F-D, S-U **EmS** 

**BULK** 

UN1170 **UN** number

**ETHANOL SOLUTION UN proper shipping name** 

Class П Packing group **Environmental hazards** 

Marine pollutant No. **FmS** F-E. S-D

**General information** 

Avoid transport on vehicles where the load space is not separated from the driver's compartment. Ensure vehicle driver is aware of the potential hazards of the load and knows what to do in the event of an accident or an emergency. Before transporting product containers: Ensure that containers are firmly secured. Ensure cylinder valve is closed and not leaking. Ensure valve outlet cap nut or plug (where provided) is correctly fitted. Ensure valve protection device (where provided) is correctly fitted. Ensure adequate ventilation. Ensure compliance with applicable

regulations.

## 15. Regulatory information

US federal regulations This product is a

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)** 

 BUTANE (CAS 106-97-8)
 Listed.

 ETHANOL (CAS 64-17-5)
 Listed.

 PROPANE (CAS 74-98-6)
 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

No (Exempt)

chemical

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)

BUTANE (CAS 106-97-8) PROPANE (CAS 74-98-6)

Safe Drinking Water Act

Not regulated.

(SDWA)

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** 09-05-2019

Version # 01

NFPA ratings Health: 2

Flammability: 4 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.

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