SAFETY DATA SHEET

37A. HAIR MOUSSE – ISOBUTANE/ DIMETHYL ETHER – AEROSOL – UN1950

Date of Issue: 9 May 2022
Supersedes: N/A

1. Identification of Material and Supplier

Product Identifier: 37A. HAIR MOUSSE – ISOBUTANE/ DIMETHYL ETHER – AEROSOL – UN1950

Other Means of Identification:
Aerosols Class 2.1
Recommended Use/Product Type:
Cosmetic Aerosol Mousses.

AUSTRALIA
Suppliers Details: L'Oréal Australia Pty Ltd.
Address: 564 St Kilda Road.
Melbourne VIC 3004 Australia.
Telephone Number: (03) 8680 0000 (8am–6pm Mon to Fri).
Fax Number: 61 3 8680 0009.
Emergency Telephone Number (Must be a 24 Hour Number):
(03) 8680 0800 (8am–6pm Mon to Fri).
(03) 8680 0866 (9am–5pm Mon to Fri).
0411 077 273 (After Hours).
Australian Poisons Information Centre:
13 1126.
Email Address of the Person Responsible for this SDS:
sandor.berta@loreal.com.

NEW ZEALAND
Suppliers Details: L'Oréal New Zealand.
Address: Building 8, 9 Manu Street,
Othahuhu, Auckland 2024 New Zealand.
Telephone Number: +64 21 962 098 or +64 9583 4160 (8am–6pm Mon to Fri)
Fax Number: +64 9583 4188.
Emergency Telephone Number (Must be a 24 Hour Number):
+64 21 962 098 or +64 21245 1758 (8am–6pm Mon to Fri)
+64 21 962 098 (After Hours).
New Zealand Poisons Information Centre:
0800 764766.
Email Address of the Person Responsible for this SDS:
Miu.TUALA@loreal.com Or Pieter.duplooy@loreal.com

2. Hazard Identification

Hazard Classification: This product is classified as Hazardous according to the criteria of Safe Work Australia. Also classified as Dangerous Goods

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Class 2.1 Flammable Gases according to the criteria of ADG Code 7.7 Edition.

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Hazard Classification: This material is classified as a dangerous good according to criteria in New Zealand Standard 5433:2012 Transport of Dangerous Goods on Land.
This material is classified as hazardous according to criteria in the Hazardous Substances (Hazard Classification) Notice 2020.

NZ HSNO Classification*:* Category 2.1.2A Flammable Aerosol.
Category 6.1D Acute Toxicity- Oral.
Category 6.4- Eye Irritant.
Category 9.1D Ecotoxic to aquatic environment.

BOTH COUNTRIES

GHS Classification of the substance or mixture:
Flammable Aerosol - Category 1.
Acute Toxicity- Category 4.
Serious Eye Damage/Eye Irritation- Category 2A.
Specific Target Organ Toxicity- Repeated Exposure Category 3.
Acute Aquatic Toxicity- Category 3.
Chronic Aquatic Toxicity- Category 3.

Allocation of Label Elements:

Pictograms:



GHS Signal word: **DANGER**

GHS Hazard statements: H222: Extreme flammable aerosol.
H280: Contains gas under pressure, may explode if heated.
H302: Harmful if swallowed.
H319: Causes serious eye irritation.
H336: May cause drowsiness and dizziness.
H402: Harmful to aquatic life.
H412: Harmful to aquatic life with long lasting effects.

Precautionary statement(s):

General
P101: If medical advice is needed, have product container or label on hand.
P102: Keep out of reach of children.
P103: Read label before use.
P104: Read Safety Data Sheet before use.

Prevention
P210: Keep away from heat/sparks/open flames/hot surfaces – No smoking.

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	P211: Do not spray on an open flame or other ignition source P240: Ground/bond container and receiving equipment. P241: Use explosion-proof electrical/ ventilating/ lighting/equipment. P242: Use only non-sparking tools. P243: Take precautionary measures against static discharge. P251: Do not pierce or burn, even after use. P260: Do not breathe dust /fumes /gas /mist /vapours /spray. P264: Wash hands thoroughly after use. P270: Do not eat drink, or smoke when using this product. P273: Avoid release to the environment. P280: Wear eye and face protection
Response	P301 + P312: IF SWALLOWED: Call a POISON CENTRE or Doctor if you feel unwell. P305 + P351 + P338: IF IN EYES. Rinse cautiously with water for several minutes. Remove contact lenses, if easy to do. Continue rinsing. P330: If in mouth rinse with water. P337 + P313: If eye irritation persists: Get medical advice/ attention.
Storage	P410 + P412: Protect from sunlight. Do not expose temperatures exceeding 50°C.
Disposal	P501: Dispose of contents/ container to an approved waste disposal plant in accordance with Local/ regional/ national/ international regulations
Other Hazards	Not Specified.

3. Composition/Information on Ingredients

Component/Substance	CAS Number	% by Weight	Hazardous Substance Classification
Isobutane	75-28-5	<3	H220, H280
Dimethyl Ether	115-10-6	12	H220, H280
Other ingredients determined not to be hazardous		To 100	Not classified

4. First Aid Measures

General Advice:	If poisoning occurs contact a doctor or Poisons Information Centre. Phone 131126 from anywhere in Australia.
Eye:	Rinse abundantly under flowing water for at least 15 minutes. If irritation develops seek medical attention. Splashes in the

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	eye may cause immediate stinging and tears. Transient redness of the eye may also occur.
Skin:	In case of skin contact, if irritation develops immediately wash off with plenty of water for at least 15 minutes. If irritation persists seek medical attention immediately.
Inhalation:	If symptoms are experienced, remove source of contamination and move victim to fresh air immediately. If symptoms persist, seek medical attention. At relatively high vapour concentrations ethyl alcohol is an irritant to the nose and throat and may cause central nervous system depression.
Ingestion:	Rinse mouth with water. If swallowed do not induce vomiting. Give one or two glasses of water or milk to drink. Seek medical attention immediately. May cause irritation of the gastrointestinal tract. Depression of the central nervous system may result in headache or dizziness.
Advice to Doctor:	Treat symptomatically. If in eyes recheck after one week.

5. Fire Fighting Measures

Suitable Extinguishing Media:

Highly Flammable. In case of fire, all extinguishing media are. suitable. For safety reasons do not use strong water jets.

Hazards from Combustion Products:

May produce toxic fumes of carbon oxides.

Precautions for Fire Fighters and Special Protective Equipment:

If in the event of fire wear self-contained breathing apparatus. Use personal protective equipment. Keep containers cool with water spray. Closed containers may rupture when exposed to temperatures greater than 50°C. Vapour is heavier than air, distant ignition sources possible.

Hazchem Code: 2YE.

6. Accidental Release Measures

Emergency Procedures: UN 1950. Wear appropriate protective equipment. Spills will be slippery and highly flammable.

Methods and Materials for Containment and Clean Up Procedures:

Remove possible leaking containers. Remove all sources and ventilate area. Dilute small spills with water. For larger spills, wear protective equipment, dilute with water and absorb in inert material (sand or vermiculate). Shovel material into a suitable container and seal it. Wash the spill area with mild detergent to remove residue. Dispose of material in compliance with federal state and local regulations. Do not allow the material to enter drains or waterways.

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7. Handling and Storage

Precautions for Safe Handling:

This product is a Class 2.1 Flammable Gases and should be transported and stored according to Dangerous Goods Regulations, Codes and Standards. Gloves (vinyl, rubber, plastic) may be worn when handling this material. Keep away from heat, flames or ignition source. Do not eat, drink or smoke in handling areas. Remove contaminated clothing and wash hands before eating.

Conditions for Safe Storage:

Store product upright in a cool place and out of direct sunlight. Store away from alkalis, corrosive and oxidising products. Use good personal hygiene practices. Store in accordance with Dangerous Goods Regulations and transport in accordance with ADG Code for Dangerous Goods Class 2.1.

8. Exposure Controls/Personal Protection

National Exposure Standards[1,2,3]:

Chemical Name	*CAS No.*	*TWA (ppm)*	*TWA (mg/m^3)*	*STEL (ppm)*	*STEL (mg/m^3)*
Isobutane[1,2,3]	75-28-5	800	1900	-	-
Dimethyl Ether[1,2]	115-10-6	400	760	500	950

TWA = Time-weighted average exposure standard.
STEL = Short term exposure limit standard.

1. Safe Work Australia. Exposure Standards for Atmospheric Contaminants (2019). See: https://www.safeworkaustralia.gov.au/doc/workplace-exposure-standards-airborne-contaminants-2019
2. Worksafe New Zealand. Workplace Exposure Standards and Biological Exposure Indices. (2022). See: https://www.worksafe.govt.nz/topic-and-industry/monitoring/exposure-standards-and-biological-exposure-indices/
3. US. NIOSH: Pocket Guide to Chemical Hazards Components See: https://www.cdc.gov/niosh/npg/default.html

Biological Limit Values: No Biological limit allocated.

Engineering Controls: Use in a well-ventilated area. Maintain air concentrations below exposure standards.
New Zealand: Hazard indication 2 is required but other signage recommended:



Personal Protective Equipment:

If ventilation is insufficient, a suitable respirator should be worn. When handling bulk quantities gloves (vinyl, plastic or

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rubber) shoud be worn when handling this product. It is recommended that protective clothing is worn e.g. aprons (vinyl, plastic or rubber) and safety shoes. Eye protection in the form of tightly fitting safety goggles and/or face shield should be worn.



9. Physical and Chemical Properties

Appearance:	Yellow or colourless liquid and propellant gas in an aerosol container
Odour:	Characteristic odour.
pH:	5.5 - 5.9 (liquid)
Boiling Point (ºC):	> 100 °C (liquid)
Vapour Pressure:	Not determined
Specific Gravity:	Not determined.
Flashpoint (ºC):	> 100.0 °C Closed Cup (liquid)
Flammability Limits:	Highly flammable.
Solubility in Water:	Miscible.

10. Stability and Reactivity

Chemical Stability:	Stable under normal conditions of handling, use and transportation.
Conditions to Avoid:	Avoid heat and sources of ignition.
Incompatible Materials:	Keep away from alkalis and corrosive substances.
Hazardous Decomposition Products:	Decomposition not known to occur.
Hazardous Reactions:	None known.

11. Toxicological Information

Inhalation:	Prolonged inhalation may be harmful.
Skin contact:	No adverse effects due to skin contact are expected.
Eye contact:	No adverse effects due to eye contact are expected.
Ingestion:	Expected to be a low ingestion hazard.

Symptoms related to the physical, chemical and toxicological characteristics:
Not available.

Information on toxicological effects

Components	Species	Test Results

Acute Toxicity:

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PRODUCT Not known
Acute Dermal: ATEmix 4.478e+006 mg/kg

DIMETHYL ETHER (CAS 115-10-6)
Inhalation-Gas: Rat LC50 164000 ppm, 4 h

Skin corrosion/irritation:
PRODUCT Due to partial or complete lack of data the classification is not possible. No adverse effects due to skin contact are expected.
DIMETHYL ETHER (CAS 115-10-6)
Irritation corrosion- skin: Contact with liquid form may cause frostbite

Serious eye damage/eye irritation:
PRODUCT Due to partial or complete lack of data the classification is not possible. No adverse effects due to eye contact are expected.

DIMETHYL ETHER (CAS 115-10-6)
Irritation Corrosion – Eye: Contact with liquid form may cause frostbite.

Respiratory or skin sensitization:
PRODUCT
Respiratory sensitization: Due to partial or complete lack of data the classification is not possible.
Skin sensitization:
PRODUCT Due to partial or complete lack of data the classification is not possible.

Mutagenicity
PRODUCT
Germ cell mutagenicity: Due to partial or complete lack of data the classification is not possible.
DIMETHYL ETHER (CAS 115-10-6)
Mutagenicity: In vitro and in vivo tests did not show mutagenic effects.

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

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DIMETHYL ETHER (CAS 115-10-6)

Developmental effects:	OECD 414 Rat	NOAEL 40000 ppm

DIMETHYL ETHER (CAS 115-10-6)

Reproductivity:	OECD 452 Rat	NOAEL 2.5 % No effects on fertility

Specific target organ toxicity - single exposure

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

Specific target organ toxicity - repeated exposure

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

DIMETHYL ETHER (CAS 115-10-6)

Repeated Dose Oral Toxicity:

Inhalation:	OECD 452 Rat	NOAEC 47106 mg/m3 air Test Duration: 2 yr

Aspiration hazard:

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

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:

PRODUCT 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
DIMETHYL ETHER (CAS 115-10-6)		
Aquatic Toxicity:		
Acute		
Algae:	QSAR Green algae	EC50 154.917 mg/l, 96 h
Crustacea:	Daphnia magna	EC50 > 4400 mg/l, 48 h
Fish:	Poecilia reticulata	LC50 > 4100 mg/l, 96 h
Other:	Pseudomonas putida	EC10 > 1600 mg/l

Persistence and degradability:

Biodegradability:

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Percent degradation (Aerobic biodegradation)

DIMETHYL ETHER		
	OECD 301 D	5 % Not Readily Biodegradable Test Duration: 28 d

Bioaccumulative potential:

Partition coefficient n-octanol / water (log Kow)

DIMETHYL ETHER	0.1
ISOBUTANE	2.76

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 Methods: Recover if possible and dispose of in accordance with local, State and Federal government regulations.

Special Requirements for Landfill or Incineration:
Empty containers should be disposed of to landfill in domestic garbage collection. The local waste authority should be consulted prior to disposal of bulk quantities.

14. Transport Information

AUSTRALIA- ADG

UN Number: 1950.
UN Proper Shipping Name: AEROSOLS.
Class & Subsidiary Risk: Class 2.1 (Australia). 2.1B (New Zealand).
Packaging Group: -
Special Precautions: SP63, SP190, SP277, SP327, P003, LP-2, PP17, PP87, L2.
Hazchem Code: 2YE.

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Relevant Information. Hazard Class 2,
Display UN Classes 6 and 9 in documentation
Comply with land transport maximum package quantities.
Label outer packaging with UN Classes and product identification. Label risks toxic and eco-toxic.



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UN/ID No.:	UN1950.
Proper shipping name:	AEROSOLS.
Hazard class:	2.1.
Packing group:	-
Special Precautions:	SP63, SP190, SP277, SP327, SP959, E0, P003, LP02, PP17, PP87, L2.

ICAO/IATA

UN/ID No.:	UN1950.
Proper shipping name:	AEROSOLS.
Hazard class:	2.1
Packing group:	-
Special Precautions:	Check code.

15. Regulatory Information

AUSTRALIA

SUSMP: Not Scheduled.

Competition and Consumer Act:
Cosmetic ingredients must be labelled.

Industrial Chemicals Act: Ingredients are in the Australian Inventory of Industrial Chemicals (AIIC) and/or in compliance with the *Industrial Chemicals Act 2019* and the *Industrial Chemicals (General) Rules 2019.*

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Dangerous Goods Regulations:
Symbols are required for bulk storage and containers only and not on small packaged goods for consumers.



Risk phases are required for bulk storage and containers only.

Risk-phrase(s)

F+: Extremely Flammable.
N: Dangerous for the Environment.
Xn: Harmful.
Xi: Irritant.
R12: Extremely Flammable.
R22: Harmful if swallowed.
R36: Irritating to eyes.
R67: Vapours may cause drowsiness and dizziness.
Or combination risk phases as appropriate.

S-phrase(s)

S2: Keep out of the reach of children.
S7: Keep container tightly closed.
S9: Keep aerosol in a well ventilated area.
S16: Keep away from sources of ignition – no smoking.

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S33: Take precautionary measures against ignition- No Smoking.
S46: If swallowed, seek medical advice immediately and show container or label.
S47: Keep at temperatures not exceeding 50°C.

Health & Safety at Work (Hazardous Substances) Regulations 2017:

HSNO Regulations: The HSNO Approval Number for this Group Standard is HSR002552 (Cosmetic Products Group Standard). Substances must comply with the Standard.

Identification and labelling Regulations:
Hazardous Substances (Hazard Classification) Notice 2020.
Consolidated Hazardous Substances (Labelling) Notice 2017.

Storage and handling: Consolidated Hazardous Substances (Hazardous Property Controls) Notice 2017.

Packaging Regulations: Consolidated Hazardous Substances (Packaging) Notice 2017.
Disposal Regulations: Consolidated Hazardous Substances (Disposal) Notice 2017.

Other Regulations or Notices:
Hazardous Substances (Forms and Information) Notice 2017
Consolidated Hazardous Substances (Safety Data Sheets) Notice 2017.
Consolidated Hazardous Substances (Importers and Manufacturers) Notice 2015.
Hazardous Substances (Amendments and Revocations) Notice 2020.
Hazardous Substances (Enforcement Officer Qualifications) Notice 2015.

Tracking: Not required under Consolidated Hazardous Substances (Hazardous Property Controls) Notice 2017.

Certified Handlers: Required under Health and Safety at Work (Hazardous Substances) Regulations 2017.

16. Other Information

Date of Issue: 09th May 2022
Supersedes: N/A
Version Number: 1
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END OF SDS

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