SAFETY DATA SHEET

46B. HYDROGEN PEROXIDE SOLUTIONS 8-15% - OXIDISING SUBSTANCES - UN2984

Date of Issue: 1st May 2022
Supersedes: N/A

1. Identification of Material and Supplier

Product Identifier: 46B. HYDROGEN PEROXIDE SOLUTIONS 8-15% - OXIDISING SUBSTANCES - UN2984.

Other Means of Identification: Dangerous Goods Hazard Class 5.1.
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Recommended Use/Product Type:
Cosmetic Hair Products containing hydrogen peroxide 8-12%.

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 Class 3 Flammable Liquid 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 6.1D Acute Toxicity: Oral
Category 8.3A Eye Corrosive
Category 9.1D Ecotoxic to aquatic environment.

BOTH COUNTRIES

GHS Classification of the substance or mixture:
Acute Toxicity: Oral- Category 4.
Eye Damage/Eye Irritation- Category 1.
Acute Aquatic Toxicity- Category 3.
Chronic Aquatic Toxicity- Category 3.

Allocation of Label Elements:
Pictograms:



GHS Signal word: **DANGER**

GHS Hazard statements: H302: Harmful if swallowed.
H318: Causes serious eye damage.
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
P264: Wash hands and face thoroughly after use.
P270: Do not eat drink or smoke when using this product.
P273: Avoid release to the environment.
P280: Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response
P301 + P312: Is swallowed immediately call a POISON CENTRE or a doctor.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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P312: Call a POISON CENTRE or doctor if you fell unwell.
P330: Rinse Mouth.
P337 + P313: If eye irritation persists: Get medical advice.

Storage: P403 + P233: Store in a well-ventilated place. Keep container tightly closed.

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
Hydrogen Peroxide	7722-84-1	8-15	H271, H302, H332, H314, H335.
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 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.

Advice to Doctor: Treat symptomatically. If in eyes recheck after one week.

5. Fire Fighting Measures

Suitable Extinguishing Media:

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

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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: 2R.

6. Accidental Release Measures

Emergency Procedures: UN 2984. Wear appropriate protective equipment. Spills will be slippery.
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.

7. Handling and Storage

Precautions for Safe Handling:
This product is a Class 5.1 Oxidising Substances 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 5.1.

8. Exposure Controls/Personal Protection

National Exposure Standards[1,2,3]:

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Chemical Name	*CAS No.*	*TWA (ppm)*	*TWA (mg/m^3)*	*STEL (ppm)*	*STEL (mg/m^3)*
Hydrogen Peroxide[1,2,3]	7722-84-1	1	1.4	-	-

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.
Flammable symbol or warning.



Personal Protective Equipment:
If ventilation is insufficient, a suitable respirator should be worn. When handling bulk quantities gloves (vinyl, plastic or 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:	Clear colourless liquid.
Odour:	No odour.
pH:	2-4.
Boiling Point (ºC):	Not determined.
Vapour Pressure:	Not determined. kPa @ 25°C.
Specific Gravity:	1030 to 1050 kg/m^3 @ 25°C.
Flashpoint (ºC):	Not determined.
Flammability Limits:	Not determined.
Solubility in Water:	Not determined.

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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:	Hazardous decomposition products formed under fire conditions. Decomposition not known to occur under recommended storage conditions.
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:	Causes serious eye irritation.
Ingestion:	May cause discomfort if swallowed. However, ingestion is not likely to be a primary route of occupational exposure.
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.

Information on toxicological effects

Components	Species	Test Results
Acute Toxicity		
PRODUCT	Not known	
Acute Inhalation-Vapor:	ATEmix	101,4 mg/l
Acute Oral:	ATEmix	7708 mg/kg
HYDROGEN PEROXIDE (CAS 7722-84-1)		
Acute Dermal:	OECD 402 Rabbit	LD50 > 2000 mg/kg
Inhalation-Vapor:	OECD 403 Rat	LC0 170 mg/m³, 4 h
Oral:	OECD 401 Rat	LD50 693.7 mg/kg
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.	
HYDROGEN PEROXIDE (CAS 7722-84-1)		
Irritation corrosion- skin:		
	OECD 404 Rabbit 35% ≥ C < 50%	Irritating
	OECD 404 Rabbit C ≥ 50%	Corrosive

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Serious eye damage/eye irritation:

PRODUCT Causes serious eye irritation.

HYDROGEN PEROXIDE (CAS 7722-84-1)

Irritation Corrosion – Eye:

OECD 405 Rabbit 5% ≥ C < 8%	Irritating
OECD 405 Rabbit C ≥ 8%	Corrosive

Respiratory or skin sensitization:

PRODUCT

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

Skin sensitization Skin sensitization:

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

HYDROGEN PEROXIDE (CAS 7722-84-1)

Skin sensitization:	Guinea pig	Not Sensitizing

Mutagenicity

PRODUCT

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

HYDROGEN PEROXIDE (CAS 7722-84-1)

Mutagenicity: In vitro tests showed mutagenic effects which were not observed with in vivo test.

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

HYDROGEN PEROXIDE (CAS 7722-84-1):

3 Not classifiable as to carcinogenicity to humans.

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.

Specific target organ toxicity - single exposure

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

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HYDROGEN PEROXIDE (CAS 7722-84-1)
Specific target organ toxicity - single exposure:

	0, C ≥ 35%	Irritating

Specific target organ toxicity - repeated exposure

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

HYDROGEN PEROXIDE (CAS 7722-84-1)
Repeated Dose 28 Day Oral Toxicity:

Inhalation:	OECD 412 Rat	NOAEL 2.9 mg/L air

Repeated Dose 90 Day Oral Toxicity:

Oral:	OECD 408 Mouse	NOAEL 26 mg/kg bw/d

Aspiration hazard:

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

12. Ecological Information

Ecotoxicity:

PRODUCT	Based on available data, the classification criteria are not met for hazardous to the aquatic environment.

Components	Species	Test Results
HYDROGEN PEROXIDE (CAS 7722-84-1)		
Aquatic Toxicity:		
Acute		
Algae:	OECD 201 Chlorella vulgaris	EC50 2.5 mg/l, 72 h
Crustacea:	Daphnia pulex	EC50 2.4 mg/l, 48 h
Fish:	Pimephales promelas	LC50 16.4 mg/l, 96 h
Other:	OECD 209 Activated sludge of a predominantly domestic sewage	EC50 2.5 mg/l, 30min
Chronic		
Crustacea:	ASTM E 1193-97 Daphnia magna	NOEC 0.63 mg/l, 21 d

Persistence and degradability:
Biodegradability:
Percent degradation (Aerobic biodegradation)

HYDROGEN PEROXIDE		
	OECD 209	99 % Readily Biodegradable

Mobility in soil: No data available.

Results of PBT and vPvB

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Assessment:	Not 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:	2984.
UN Proper Shipping Name:	HYDROGEN PEROXIDE, AQUEOUS SOLUTION.
Class & Subsidiary Risk:	Class 5.1 (Australia). 5.1.3C (New Zealand).
Packaging Group:	III.
Special Precautions:	SP65, P504, IBC02, B5, T4, TP1, TP6, TP24.
Hazchem Code:	1R.

NEW ZEALAND

Relevant Information. Hazard Class 5.1.1C





IMDG

UN/ID No.:	UN2984.
Proper shipping name:	HYDROGEN PEROXIDE, AQUEOUS SOLUTION.
Hazard class:	5.1.
Packing group:	III.
Special Precautions:	E1, P504, IBC02, B5, T4, TP1, TP6, TP24.

ICAO/IATA

UN/ID No.:	UN2984.
Proper shipping name:	HYDROGEN PEROXIDE, AQUEOUS SOLUTION.
Hazard class:	5.1

15. Regulatory Information

AUSTRALIA

SUSMP:	SCHEDULE 6.

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FIRST AID (SUSMP): A For advice contact a Poisons Information Centre phone 131126 or a doctor at once.

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.*

NEW ZEALAND

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)
- N: Dangerous to the Environment.
- Xi: Irritant.
- O: Oxidising.
- R8: Contact with combustible material may cause fire.
- R22: Harmful if swallowed.
- R41: Risk of serious eye damage.
- R52: Harmful to aquatic life
- R53: Harmful to aquatic life with long lasting effects.

Or combination risk phases as appropriate.

S-phrase(s)
- S2: Keep out of reach of children.
- S13: Keep away from food, drink and animal feeding stuffs.
- S17: Keep away from combustible material.
- S24: Avoid contact with skin.
- S25: Avoid contact with eyes.
- S26: In case of contact with eyes, rinse immediately with plenty of water and contact a doctor or Poisons Information Centre.
- S36: Wear suitable protective clothing.
- S46: If swallowed, seek medical advice immediately and show container or label.

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.

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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.
Additional Information:	Mixtures of bleach powders and solutions containing hydrogen peroxide (6, 9 and 12% may produce heat when applied to hair. This may be further enhanced by the presence of metallic impurities (i.e. aluminium as in glitter sprays or other forms). Should a reaction occur, remove mixture from the hair by rinsing at the basin! Do not mix with perm lotions. Skin sensitivity test: follow manufacturer's instructions.

16. Other Information

Date of Issue:	1st May 2022
Supersedes:	N/A
Version Number:	*1*
Disclaimer:	The information contained in this SDS was compiled using the latest and most reliable information available. The information is provided without any warranty, expressed or implied, regarding its correctness or accuracy. Similarly, no warranty, expressed or implied, shall be created by or inferred from any statement or omission from this SDS nor will L'Oréal assume any liability for any loss or damage arising out of the use of this information. It is solely the responsibility of the user to determine safe conditions for use of this product.

END OF SDS

C1 - Internal use