

AD ADHESIVE REMOVER

Infosafe No.: LQAIB
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ISSUED by: AVERY DENNISON

1. IDENTIFICATION

GHS Product Identifier

AD ADHESIVE REMOVER

Company Name

AVERY DENNISON (ABN 9200 7706 934)

Address

1124 Centre Rd Oakleigh South
VIC 3167 AUSTRALIA

Telephone/Fax Number

Tel: 03 9271 0300

Emergency phone number

Poisons Information Centre 131 126

E-mail Address

safety@ap.averydennison.com

Recommended use of the chemical and restrictions on use

Professional use. For industrial or institutional use. Cleaning agent.

Disclaimer

Disclaimer: Although the information and recommendations set forth in this SDS are presented in good faith and are believed to be correct as of the date of this SDS, Avery Dennison Materials Pty Ltd, makes no representations as to the completeness or accuracy thereof. Information is supplied on the conditions that the persons receiving and using it will make their own determination as to the suitability for their purpose prior to use. In no event will Avery Dennison Materials Pty Ltd or any affiliate thereof be responsible for damages of any nature whatsoever resulting from the use or reliance on the information set forth in the SDS.

2. HAZARD IDENTIFICATION

GHS classification of the substance/mixture

Classified as Hazardous according to the Globally Harmonised System of Classification and Labelling of Chemicals (GHS) including Work, Health and Safety Regulations, Australia.

Classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. (7th edition)

Aspiration Hazard: Category 1

Eye Damage/Irritation: Category 2A

Flammable Liquids: Category 3

Hazardous to the Aquatic Environment - Acute Hazard: Category 1

Hazardous to the Aquatic Environment - Long-Term Hazard: Category 1

Sensitization - Skin: Category 1

Skin Corrosion/Irritation: Category 2

STOT Single Exposure: Category 3 (narcotic)

Signal Word (s)

DANGER

Hazard Statement (s)

H226 Flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.
H410 Very toxic to aquatic life with long lasting effects.

Pictogram (s)

Health hazard, Exclamation mark, Flame, Environment



Precautionary statement – Prevention

P210 Keep away from heat/sparks/open flames/hot surfaces. – No smoking.
P233 Keep container tightly closed.
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.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P264 Wash contaminated skin thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P272 Contaminated work clothing should not be allowed out of the workplace.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary statement – Response

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P331 Do NOT induce vomiting.
P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P362 Take off contaminated clothing and wash before reuse.
P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313 If eye irritation persists: Get medical advice/attention.
P312 Call a POISON CENTER or doctor/physician if you feel unwell.
P370+P378 In case of fire: Use Carbondioxide (CO2). Alcohol resistant foam. Dry chemical. Water fog for extinction.
P391 Collect spillage.

Precautionary statement – Storage

P403+P233 Store in a well-ventilated place. Keep container tightly closed.
P403+P235 Store in a well-ventilated place. Keep cool.
P405 Store locked up.

Precautionary statement – Disposal

P501 Dispose of contents/container to an approved waste disposal plant.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients

Name	CAS	Proportion
d-Limonene	5989-27-5	50-75 %
Aliphatic hydrocarbon		>25 %
1-methoxy-2-propanol	107-98-2	10-<20 %
Propan-2-ol	67-63-0	10-<20 %
2-butoxyethanol	111-76-2	1-<5 %
Myrcene	123-35-3	1-<5 %
Bicyclo[3.1.1]hept-2-ene, 2,6,6-trimethyl-	80-56-8	0.1-<1 %
Linalool	78-70-6	0-<1 %
Ingredients determined not to be hazardous		Balance

4. FIRST-AID MEASURES

Inhalation

If inhaled, remove from contaminated area. Apply artificial respiration if not breathing. Seek medical attention.

Ingestion

Do NOT induce vomiting. Wash out mouth and lips with water. Where vomiting occurs naturally have affected person place head below hip level in order to reduce risk of aspiration. Seek immediate medical attention.

Skin

Remove all contaminated clothing immediately. Wash affected area thoroughly with soap and water. Wash contaminated clothing before reuse or discard. Seek medical attention.

Eye contact

If in eyes, hold eyelids apart and flush the eyes continuously with running water. Remove contact lenses. Continue flushing for several minutes until all contaminants are washed out completely. Seek medical attention.

First Aid Facilities

Eyewash, safety shower and normal washroom facilities.

Advice to Doctor

Treat symptomatically.

Other Information

For advice in an emergency, contact a Poisons Information Centre (Phone 131 126 in Australia) or a doctor at once.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Carbondioxide (CO₂). Alcohol resistant foam. Dry chemical. Water fog.

Unsuitable Extinguishing Media

Do not use water jet.

Hazards from Combustion Products

Under fire conditions this product may emit toxic and/or irritating fumes including oxides of nitrogen, carbon monoxide and carbon dioxide.

Specific Hazards Arising From The Chemical

Flammable liquid and vapour. Vapour/air mixtures may ignite explosively. Flashback along the vapour trail may occur. Runoff to sewer may create fire or explosion hazard.

Hazchem Code

•3Y

Decomposition Temperature

Not available

Precautions in connection with Fire

Fire fighters should wear Self-Contained Breathing Apparatus (SCBA) and full protective clothing to prevent exposure to vapours, fumes or products of combustion. Water spray may be used to cool down heat-exposed material. If safe to do so, remove containers from path of fire. Do not allow run-off from fire fighting to enter drains or water courses.

6. ACCIDENTAL RELEASE MEASURES

Emergency Procedures

Wear appropriate personal protective equipment and clothing to prevent exposure. Extinguish or remove all sources of ignition and stop leak if safe to do so. Increase ventilation. Evacuate all unprotected personnel. If possible contain the spill. Place inert absorbent, non-combustible material onto spillage. Use clean non-sparking tools to collect the material and place into suitable labelled containers for subsequent recycling or disposal. Dispose of waste according to the applicable local and national regulations. If contamination of sewers or waterways occurs inform the local water and waste management authorities in accordance with local regulations.

7. HANDLING AND STORAGE

Precautions for Safe Handling

Avoid contact with skin and eyes. Wear overalls, impervious gloves and safety glasses. Use in designated areas with local exhaust ventilation, away from sparks, flames and other ignition sources. Use approved flammable liquid storage containers in the work area. Prevent release of vapours and mists into workplace air. Keep containers tightly closed. Take precautionary measures against static discharges. Do not empty into drains. Ensure a high level of personal hygiene is maintained when using this product, that is, always wash hands before eating, drinking, smoking or using the toilet facilities.

Conditions for safe storage, including any incompatibilities

Store in a cool, dry, well-ventilated area away from sources of ignition, oxidising agents, strong acids, foodstuffs, and clothing. Keep containers closed when not in use, securely sealed and protected against physical damage. Inspect regularly for deficiencies such as damage or leaks. Have appropriate fire extinguishers available in and near the storage area. Take precautions against static electricity discharges. Use proper grounding procedures. Ensure that storage conditions comply with applicable local and national regulations. For information on the design of the storeroom, reference should be made to Australian Standard AS1940 - The storage and handling of flammable and combustible liquids. Reference should also be made to all applicable state and federal regulations.

Storage Temperatures

<35°C

Unsuitable Materials

Steel (except stainless steel). PE and PP.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure limit values

No exposure standards have been established for this material. However, the available exposure limits for ingredients are listed below:

1-Methoxy-2-propanol:

TWA: 100 ppm, 369 mg/m³

STEL: 150 ppm, 553 mg/m³

Propan-2-ol

TWA: 400 ppm, 983 mg/m³

STEL: 500 ppm, 1230 mg/m³

2-Butoxyethanol

TWA: 20 ppm, 96.9 mg/m³

STEL: 50 ppm, 242 mg/m³

Notice: Sk

Refined mineral oil mist

TWA: 5 mg/m³

TWA (Time Weighted Average): The average airborne concentration of a particular substance when calculated over a normal eight-hour working day, for a five-day week.

STEL (Short Term Exposure Limit): The average airborne concentration over a 15 minute period which should not be exceeded at any time during a normal eight-hour workday.

'Sk' Notice: Absorption through the skin may be a significant source of exposure. The exposure standard is invalidated if such contact should occur.

Source: Safe Work Australia.

Biological Limit Values

Name: Propan-2-ol

Determinant: Acetone

Specimen: urine

Sampling time: End of shift at end of work week.

Value: 40 mg/L

Notation: Ns, B

Name: 2-butoxyethanol

Determinant: Butoxyacetic acid (BAA) in urine*

Value: 200mg/g creatinine

Sampling time: end of shift.

*with hydrolysis

Source: American Conference of Industrial Hygienists (ACGIH)

Appropriate Engineering Controls

This substance is hazardous and should be used with a local exhaust ventilation system, drawing vapours away from workers' breathing zone. A flame-proof exhaust ventilation system is required. If the engineering controls are not sufficient to maintain concentrations of vapours/mists below the exposure standards, suitable respiratory protection must be worn. Refer to relevant regulations for further information concerning ventilation requirements. Refer to AS 1940 - The storage and handling of flammable and combustible liquids and AS/NZS 60079.10.1 Explosive atmospheres - Classification of areas - Explosive gas atmospheres, for further information concerning ventilation requirements.

Respiratory Protection

If engineering controls are not effective in controlling airborne exposure then an approved respirator with a replaceable organic vapour filter should be used. Reference should be made to Australian/New Zealand Standards AS/NZS 1715, Selection, Use and Maintenance of Respiratory Protective Devices; and AS/NZS 1716, Respiratory Protective Devices, in order to make any necessary changes for individual circumstances.

Eye Protection

Safety glasses with side shields or chemical goggles should be worn. Final choice of appropriate eye/face protection will vary according to individual circumstances. Eye protection devices should conform with Australian/New Zealand Standard AS/NZS 1337 (series) - Eye Protectors for Industrial Applications.

Hand Protection

Wear impervious gloves such as nitril. ± 0.5 mm. Final choice of appropriate gloves will vary according to individual circumstances i. e. methods of handling or according to risk assessments undertaken. Reference should be made to AS/NZS 2161.1: Occupational protective gloves - Selection, use and maintenance.

Body Protection

Suitable protective workwear, e.g. cotton overalls buttoned at neck and wrist. When large quantities are handled the use of plastic aprons and rubber boots is recommended.

9. PHYSICAL AND CHEMICAL PROPERTIES

Properties	Description	Properties	Description
Form	Liquid	Appearance	Liquid
Colour	Colourless	Odour	Characeristic odour
Decomposition Temperature	Not available	Melting Point	< 0 °C
Boiling Point	82°C	Solubility in Water	Soluble
Specific Gravity	0.8 (20°C)	pH	Not applicable. Almost waterfree product.
Vapour Pressure	>2300 Pa (20°C)	Vapour Density (Air=1)	>1 (20°C)
Evaporation Rate	<1 (n-butyl acetate = 1)	Odour Threshold	Not available
Viscosity	<20 mm ² /s (40°C) 1 mm ² /s (20°C)	Partition Coefficient: n-octanol/water	Not available
Flash Point	45°C (PMcc)	Flammability	Flammable liquid
Auto-Ignition Temperature	>230°C	Flammable Limits - Lower	0.9% (d-Limonene)
Flammable Limits - Upper	12% Propan-2-ol	Explosion Properties	Does not contain explosives.

10. STABILITY AND REACTIVITY

Reactivity

React with incompatible materials.

Chemical Stability

Stable under normal storage conditions of storage and handling.

Conditions to Avoid

Heat, direct sunlight, open flames or other sources of ignition.

Incompatible materials

Oxidising agents.

Hazardous Decomposition Products

Under fire conditions this product may emit toxic and/or irritating fumes including oxides of nitrogen, carbon monoxide and carbon dioxide.

Possibility of hazardous reactions

Not available

Hazardous Polymerization

Not available

11. TOXICOLOGICAL INFORMATION

Toxicology Information

The available toxicity data for material given below.

Acute Toxicity - Oral

Calculated LD50: > 4228 mg/kg.bw. Ingredients of unknown toxicity: < 1 %. ATE: > 2000 mg/kg.bw

Acute Toxicity - Inhalation

Calculated LC50: > 10 mg/l. Ingredients of unknown toxicity: 68 %. ATE: > 5 mg/l.

Acute Toxicity - Dermal

Calculated LD50: > 2156 mg/kg.bw. Ingredients of unknown toxicity: < 1 %. ATE: > 2000 mg/kg.bw.

Ingestion

May be fatal if swallowed and enters airways. Small amounts of liquid aspirated into the respiratory system during ingestion or from vomiting may cause severe pulmonary injury that may lead to death. May cause irritation to the mouth, throat, esophagus and stomach with symptoms of nausea, abdominal discomfort, vomiting and diarrhoea.

Inhalation

May cause irritation to the mucous membrane and upper airways, especially where vapours or mists are generated. Symptoms include sneezing, coughing, wheezing, shortness of breath, headache, dizziness, drowsiness nausea and vomiting.

Skin

Causes skin irritation. Skin contact will cause redness, itching and swelling. Repeated exposure may cause skin dryness and cracking and may lead to dermatitis. May cause an allergic skin reaction.

1-Methoxy-2-propanol

Rabbit: Not Irritating (OECD 404)

Propan-2-ol

Rabbit: Slightly irritant (OECD 404)

2-Butoxyethanol

Rabbit: irritant (OECD 404)

Bicyclo[3.1.1]hept-2-ene, 2,6,6-trimethyl-

Rabbit: Moderately irritant

Human: Non Irritant

Eye

Causes serious eye irritation. On eye contact this product will cause tearing, stinging, blurred vision, and redness.

d-Limonene

Rabbit: Not irritating (OECD 405)

1-Methoxy-2-propanol

Rabbit: Mildly irritant (OECD 405)

Propan-2-ol

Rabbit: irritant (OECD 405)

2-Butoxyethanol

Rabbit: irritant (OECD 405)

Bicyclo[3.1.1]hept-2-ene, 2,6,6-trimethyl-

Rabbit: Moderately irritant, Read across

Respiratory sensitisation

Not expected to be a respiratory sensitiser.

Skin Sensitisation

May cause an allergic skin reaction.

d-Limonene

Mouse: 10075 ug/cm² (OECD 429)

1-Methoxy-2-propanol

Guinea pig: Not sensitizing

Propan-2-ol

Guinea pig: Not sensitizing (OECD 406)

2-Butoxyethanol

Guinea pig: Not sensitizing (OECD 406)

Bicyclo[3.1.1]hept-2-ene, 2,6,6-trimethyl-

Guinea pig: sensitizing

Germ cell mutagenicity

Not considered to be a mutagenic hazard.

d-Limonene

Mouse: Negative (Mutagenicity)(OECD 471)

1-Methoxy-2-propanol

Not genotoxic (Genotoxicity - in vitro)(OECD 473)

Salmonella typhimurium: Negative (Mutagenicity)(OECD 471)

Propan-2-ol

Not genotoxic (Genotoxicity - in vitro)(OECD 476)

Mouse: Not genotoxic (Genotoxicity - in vivo)(OECD 474)

Negative (Mutagenicity)(OECD 471)

2-Butoxyethanol

Mouse: Not genotoxic (Genotoxicity - in vivo)(OECD 474)

Salmonella typhimurium: Negative (Mutagenicity)(OECD 471)

Myrcene

Salmonella typhimurium: Negative (Mutagenicity)(OECD 471)

Mouse: Negative (Genotoxicity - in vivo)(OECD 474)

Not genotoxic (Genotoxicity - in vitro)(OECD 473)

Bicyclo[3.1.1]hept-2-ene, 2,6,6-trimethyl-

Not genotoxic (Read across)

Carcinogenicity

Not considered to be a carcinogenic hazard.

Myrcene is listed as a Group 2B: Possibly carcinogenic to humans according to International Agency for Research on Cancer (IARC).

d-Limonene, Propan-2-ol and 2-Butoxyethanol are listed as a Group 3: Not classifiable as to carcinogenicity to humans according to International Agency for Research on Cancer (IARC).

Reproductive Toxicity

Not considered to be toxic to reproduction.

STOT-single exposure

May cause drowsiness or dizziness.

STOT-repeated exposure

Not expected to cause toxicity to a specific target organ.

Aspiration Hazard

May be fatal if swallowed and enters airways.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Very toxic to aquatic life with long lasting effects. Contains 0 % of components with unknown hazards to the aquatic environment. May form an oil film on the water surface causing a decline in oxygen content with possible adverse effects for aquatic organisms.

Persistence and degradability

Not available

Mobility

If product enters soil, it will be highly mobile and may contaminate groundwater.

Bioaccumulative Potential

Not available

Other Adverse Effects

Not available

Environmental Protection

Do not discharge this material into waterways, drains and sewers.

Acute Toxicity - Fish

LC50 (fish): 1 mg/l. (Calculated)

Acute Toxicity - Daphnia

EC50 (waterflea): < 1 mg/l.

13. DISPOSAL CONSIDERATIONS

Disposal considerations

Dispose of waste according to applicable local and national regulations. Labels should not be removed from containers until they have been cleaned. Advise flammable nature. Empty containers may contain flammable residues. Do not cut, puncture or weld on or near containers. Contaminated containers must not be treated as household waste. Containers should be cleaned by appropriate methods and then re-used or disposed of by landfill or incineration as appropriate. Do not incinerate closed containers.

Wastes including emptied containers are controlled wastes and should be disposed of in accordance with all applicable local and national regulations. Do not allow into drains or watercourses or dispose of where ground or surface waters may be affected.

14. TRANSPORT INFORMATION

Transport Information

Road and Rail (ADG):

This material is a Class 3 - Flammable Liquid according to The Australian Code for the Transport of Dangerous Goods by Road and Rail. (7th edition)

Class 3 - Flammable Liquids are incompatible in a placard load with any of the following:

- Class 1: Explosives

- Division 2.1: Flammable Gases.

(Division 2.1 and Class 3 are incompatible in transport if both are in tanks or other receptacles with a capacity individually exceeding 500 L)

- Division 2.3: Toxic Gases

- Division 4.2: Spontaneously Combustible Substances

- Division 5.1: Oxidising substances

- Division 5.2: Organic Peroxides

- Class 6: Toxic or Infectious Substances

(where the flammable liquid is nitromethane)

- Class 7: Radioactive materials unless specifically exempted.

Marine Transport (IMO/IMDG):

Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

UN No.: 1993

Proper Shipping Name: FLAMMABLE LIQUID, N.O.S. (Contains d-Limonene & Propan-2-ol)- (d-Limonene) (Marine pollutant)

DG Class: 3

Packaging Group: III

EMS No.: F-E, S-E

Special provisions: 223, 274, 955

Air Transport (ICAO/IATA):

Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

UN No: 1993

Proper Shipping Name: : Flammable liquid, n.o.s. (Contains d-Limonene & Propan-2-ol)

Class: 3

Packing Group: III

Packaging Instructions (passenger & cargo): 355

Packaging Instructions (cargo only): 366

Hazard Label: Flammable liquid

Special Provisions: A3

U.N. Number

1993

UN proper shipping name

FLAMMABLE LIQUID, N.O.S.(Contains d-Limonene & Propan-2-ol)

Transport hazard class(es)

3

Packing Group

III

Hazchem Code

•3Y

IERG Number

14

IMDG Marine pollutant

Yes

Transport in Bulk

Not available

Special Precautions for User

Not available

15. REGULATORY INFORMATION

Regulatory information

Classified as Hazardous according to the Globally Harmonised System of Classification and Labelling of Chemicals (GHS) including Work, Health and Safety Regulations, Australia.

Classified as a Scheduled Poison according to the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP).

Poisons Schedule

S5

16. OTHER INFORMATION

Date of preparation or last revision of SDS

SDS created: January 2021

References

Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice.

Standard for the Uniform Scheduling of Medicines and Poisons.

Australian Code for the Transport of Dangerous Goods by Road & Rail.

Model Work Health and Safety Regulations, Schedule 10: Prohibited carcinogens, restricted carcinogens and restricted hazardous chemicals.

Workplace exposure standards for airborne contaminants.

Adopted biological exposure determinants, American Conference of Industrial Hygienists (ACGIH).

Globally Harmonised System of Classification and Labelling of Chemicals.

Code of Practice: Managing Noise and Preventing Hearing Loss at Work.

END OF SDS

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