

AD SURFACE CLEANER

Infosafe No.: LQAIY
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ISSUED by: AVERY DENNISON

1. IDENTIFICATION

GHS Product Identifier

AD SURFACE CLEANER

Company Name

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Emergency phone number

National Poisons Centre NZ: 0800 764 766

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 Hazardous Substances (Minimum Degrees of Hazard) Notice 2017, New Zealand.

Classified as Dangerous Goods for transport according to the New Zealand Standard NZS 5433:2012 Transport of Dangerous Goods on Land.

3.1B Flammable liquid: high hazard

6.1E (Oral) - Substance that is acutely toxic

6.3A Substance that is irritating to the skin

6.4A Substance that is irritating to the eyes

6.5B Substance that is a contact sensitiser

6.9B (narcotic effects) Specific target organ toxicity (single exposure) Category 3 - Substances that are harmful to human target organs or systems

9.1B Substance that is ecotoxic in the aquatic environment

9.2C Substance that is harmful in the soil environment

Signal Word (s)

DANGER

Hazard Statement (s)

H225 Highly flammable liquid and vapour.

H303 May be harmful if swallowed.

H315 Causes skin irritation.
 H317 May cause an allergic skin reaction.
 H319 Causes serious eye irritation.
 H336 May cause drowsiness or dizziness.
 H411 Toxic to aquatic life with long lasting effects.
 H423 Harmful to the soil environment.

Pictogram (s)

Flame, Exclamation mark, Environment



Precautionary statement – Prevention

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 P233 Keep container tightly closed.
 P240 Ground and bond container and receiving equipment.
 P241 Use explosion-proof equipment.
 P242 Use non-sparking tools.
 P243 Take action to prevent static discharges.
 P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
 P264 Wash 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

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
 P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
 P362+P364 Take off contaminated clothing and wash it before reuse.
 P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 P312 Call a POISON CENTER/doctor if you feel unwell.
 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.
 P370+P378 In case of fire: Use carbon dioxide (CO2). Alcohol resistant foam. Dry chemical. Water fog to extinguish.
 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
Propan-2-ol	67-63-0	50-75 %
d-Limonene	5989-27-5	1-5 %
2-butoxyethanol	111-76-2	1-5 %
Aliphatic hydrocarbon		<5 %
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 thoroughly with water. 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 or a doctor at once. (0800 764 766)

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

Highly 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

•3YE

Decomposition Temperature

Not available

Precautions in connection with Fire

Fire fighters should wear full protective clothing and self-contained breathing apparatus (SCBA) operated in positive pressure mode. In case of fire the product may be violently or explosively reactive. Use water spray to disperse vapours. This product should be prevented from entering drains and watercourses.

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

Wear appropriate personal protective equipment and clothing to prevent exposure. Handle and use the material in a well-ventilated area, away from sparks, flames and other ignition sources. Have emergency equipment (for fires, spills, leaks, etc.) readily available. Work from suitable, labelled, fire-resistant containers. Open containers carefully as they may be under pressure. Keep containers tightly closed. Flameproof equipment is necessary in areas where the product is being used. Take precautionary measures against static discharges. Earth or bond all equipment. 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, foodstuffs, clothing and incompatible materials such as oxidising agents. 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. Protect from freezing.

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.

Storage Temperatures

<35°C

Unsuitable Materials

Steel (except stainless steel).

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:

Propan-2-ol

TWA: 400 ppm, 983 mg/m³

STEL: 500 ppm, 1230 mg/m³

2-Butoxyethanol

TWA: 25 ppm, 121 mg/m³

Note: Skin

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.

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

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.

Source: Workplace Exposure Standards and Biological Exposure Indices.

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. \pm 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	Green	Odour	Characeristic odour
Decomposition Temperature	Not available	Melting Point	< -20 °C
Boiling Point	82°C	Solubility in Water	Soluble
Specific Gravity	0.88 (20°C)	pH	11
Vapour Pressure	Not available	Vapour Density (Air=1)	Not available
Evaporation Rate	Not available	Odour Threshold	Not available
Viscosity	<7 mm ² /s (40°C)	Partition Coefficient: n-octanol/water	Not available
Flash Point	22°C (PMcc)	Flammability	Highly flammable
Auto-Ignition Temperature	>230°C	Flammable Limits - Lower	0.7% (d-Limonene)
Flammable Limits - Upper	12% Propan-2-ol		

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: > 5000 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: 5 %. ATE: > 5 mg/l.

Acute Toxicity - Dermal

Calculated LD50: > 5000 mg/kg.bw. Ingredients of unknown toxicity: 1 %. ATE: > 2000 mg/kg.bw.

Ingestion

May be harmful if swallowed. Ingestion of this product may cause irritation to the mouth, throat, oesophagus 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.

Propan-2-ol

Rabbit: Slightly irritant (OECD 404)

2-Butoxyethanol

Rabbit: irritant (OECD 404)

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)

Propan-2-ol

Rabbit: irritant (OECD 405)

2-Butoxyethanol

Rabbit: irritant (OECD 405)

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)

Propan-2-ol

Guinea pig: Not sensitizing (OECD 406)

2-Butoxyethanol

Guinea pig: Not sensitizing (OECD 406)

Germ cell mutagenicity

Not considered to be a mutagenic hazard.

d-Limonene

Mouse: 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)

Carcinogenicity

Not considered to be a carcinogenic hazard.

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

Not expected to be an aspiration hazard.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Toxic to aquatic life with long lasting effects. Contains <1 % of components with unknown hazards to the aquatic environment.

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): 15 mg/l. (Calculated)

Acute Toxicity - Daphnia

EC50 (waterflea): 7 mg/l. (Calculated)

13. DISPOSAL CONSIDERATIONS

Disposal considerations

Product Disposal:

Product wastes are controlled wastes and should be disposed of in accordance with all applicable local and national regulations. This product can be disposed through a licensed commercial waste collection service. In this specific case the product is a flammable substance and therefore can be sent to an approved high temperature incineration plant for disposal.

Personal protective clothing and equipment as specified in Section 8 of this SDS must be worn during handling and disposal of this product. The ventilation requirements as specified in the same section must also be followed, and the precautions given in Section 7 of this SDS regarding handling must also be followed.

Do not dispose into the sewerage system. Do not discharge into drains or watercourses or dispose where ground or surface waters may be affected.

In New Zealand, the disposal agency or contractor must comply with the New Zealand Hazardous Substances (Disposal) Notice 2017. Further details regarding disposal can be obtained on the EPA New Zealand website under specific group standards.

Container Disposal:

The container or packaging must be cleaned and rendered incapable of holding any substance. It can then be disposed of in a manner consistent with that of the substance it contained. In this instance the packaging can be disposed through a commercial waste collection service.

Alternatively, the container or packaging can be recycled if the hazardous residues have been thoroughly cleaned or rendered non-hazardous.

In New Zealand, the packaging (that may or may not hold any residual substance) that is lawfully disposed of by householders or other consumers through a public or commercial waste collection service is a means of compliance with regulations.

14. TRANSPORT INFORMATION

Transport Information

This material is classified as Dangerous Goods Class 3 - Flammable Liquid

Must not be loaded in the same freight container or on the same vehicle with:

- Class 1: Explosives
- Division 2.1: Flammable gases
- Division 2.3: Toxic gases
- Division 4.2: Spontaneously combustible substances
- Division 5.1: Oxidising substances
- Division 5.2: Organic peroxides or
- Class 7: Radioactive materials unless specifically exempted.

Must not be loaded with in the same freight container; and on the same vehicle must be separated horizontally by at least 3 metres unless all but one are packed in separate freight containers with:

- Division 4.3: Dangerous when wet substances

Goods of packing group II or III may be loaded in the same freight container or on the same vehicle if transported in segregation devices with:

- Division 4.2: Spontaneously combustible substances
- Division 4.3: Dangerous when wet substances
- Division 5.1: Oxidising substances
- Division 5.2: Organic peroxides

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: II

EMS No.: F-E, S-E

Special provisions: 274

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: II

Packaging Instructions (passenger & cargo): 353

Packaging Instructions (cargo only): 364

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

II

Hazchem Code

•3YE

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 Hazardous Substances (Minimum Degrees of Hazard) Notice (2017), New Zealand.

Group Standard: Surface Coatings and Colourants (Flammable) Group Standard 2017.

Tolerable exposure limit

Not available

Environmental exposure limit

Not available

Certified handler

Not available

Tracking

Not available

Controlled substance licence requirements

Not available

Montreal Protocol

Not Listed

Stockholm Convention

Not Listed

Rotterdam Convention
Not Listed

Agricultural Compounds, including Veterinary Medicines (ACVM): Not available

HSNO Approval Number
HSR002662

16. OTHER INFORMATION

Date of preparation or last revision of SDS

SDS created: February 2021

References

Hazardous Substances and New Organisms Act.

Health and Safety at Work (Hazardous Substances) Regulations.

Workplace Exposure Standards and Biological Exposure Indices.

Agricultural Compounds and Veterinary Medicines Act 1997.

Montreal Protocol on Substances that Deplete the Ozone Layer.

Stockholm Convention on Persistent Organic Pollutants (POPs).

Rotterdam Convention on the Prior Informed Consent Procedure for Certain Hazardous Chemicals and Pesticides in International Trade.

Transport of Dangerous goods on land NZS 5433.

Preparation of Safety Data Sheets - Approved Code of Practice Under the HSNO Act 1996 (HSNO CoP 8-1 09-06).

Assigning a hazardous substance to a group standard.

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

END OF SDS

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