



MATERIAL SAFETY DATA SHEET

According to Regulation (EC) 1907/2006

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY

Product name : AVERY ADHESIVE REMOVER
Product code : XD8392
MSDS number : A-8888
Application : Cleaning agent. Professional use.

Supplier : Avery Dennison Graphics and Reflective Products Division
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2 HAZARDS IDENTIFICATION

Classification : Flammable, harmful, irritant, sensitising and dangerous to the environment.

Human health hazards : Harmful: may cause lung damage if swallowed. Irritating to skin. May cause sensitisation by skin contact. Vapours may cause drowsiness and dizziness. See also section 11.

Physical/chemical hazards : Flammable.

Environmental hazards : Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. See also section 12.

Other information : Keep out of the reach of children.
Avoid contact with skin. Wear suitable gloves.
Do not breathe spray. Use only in well-ventilated areas.

3 COMPOSITION / INFORMATION ON INGREDIENTS *

Product description : Preparation.

Information on hazardous substances:

EC-name	Concentration (w/w) (%)	CAS-number	EC-number	Symbol	R-phrases
Limonene	50 – 75	5989-27-5	227-813-5	Xn, N	10-38-43-50/53
1-Methoxy-2-propanol	10 – 15	107-98-2	203-539-1	-	10
Propan-2-ol	10 – 15	67-63-0	200-661-7	F, Xi	11-36-67
2-Butoxyethanol	1 – 5	111-76-2	203-905-0	Xn	20/21/22-36/38
Ammonia 25 %	0,1 – 1	1336-21-6	215-647-6	C, N	34-50

Reference is made to chapter 16 for full text of each relevant R phrase. Occupational exposure limit(s), if relevant, are listed in section 8.

4 FIRST-AID MEASURES

Effects and symptoms

Inhalation : May cause headache, drowsiness, dizziness and a feeling of sickness. May cause stinging to respiratory airways and cause coughing.

Skin contact : Irritant. May cause redness, irritation and sensitisation. Repeated exposure may cause skin dryness or cracking.

Eye contact : May cause stinging of eyes and redness.

Ingestion : May cause lung damage, sore throat, stomachache, vomiting, diarrhoea, a feeling of sickness and lack of breathe.

First aid measures

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- Inhalation : Move victim into fresh air. Seek medical advice.
Skin contact : Immediately take off contaminated clothing. Wash off skin with plenty of water before product dries up. Consult a doctor if irritation persists.
Eye contact : Wash out with (lukewarm) water for at least 15 minutes. Remove contact lenses. Consult a doctor if irritation persists.
Ingestion : Do not induce vomiting. Do rinse the mouth. Immediately consult a doctor. Eventually give 1 or 2 spoons of laxative (sodium sulphate). Never give anything by mouth to an unconscious person.

5 FIRE-FIGHTING MEASURES

- Extinguishing media
Suitable : Alcohol resistant foam, water fog or dry chemical.
Not suitable : Water jet
Special exposure hazards : None known
Hazardous thermal (de)composition products : Carbon monoxide may be evolved if incomplete combustion occurs.
Special protective equipment for fire-fighters : Use adequate respiratory equipment in case of insufficient ventilation.

6 ACCIDENTAL RELEASE MEASURES

- Personal precautions : Danger of slipping. Clean up spills immediately. Wear shoes with non-slip soles. Keep away from sources of ignition. See also section 8.
Environmental precautions : Avoid release of product into sewers, surface and ground water causing pollution of the aquatic environment.
Methods for cleaning up : Collect spilled material in containers. Absorb residues in sand or other inert material. Dispose at an authorised waste collection point. Wash away remainder with plenty of water and soap.

7 HANDLING AND STORAGE

- Handling : Handle in accordance with good occupational hygiene and safety practices in well-ventilated areas. Keep away from sources of ignition. No smoking. Avoid contact with eyes and skin. Do not breathe vapours and/or spray.
Storage : Keep frost-free, in a cool (< 35 °C), dry and well-ventilated place separated from oxidizing substances. Protect from sunlight.
Recommended packaging : Keep only in the original container.
Use : Use only as directed.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

- Engineering measures : Use only in well-ventilated areas. Comply with standard precautionary measures for working with chemicals.
Hygienic measures : Do not eat, drink or smoke during use.
Occupational exposure limits : Occupational exposure limits have not been established for this product.

Workplace exposure limits (mg/m³):

Chemical name		EC	UK		
1-Methoxy -2-propanol	TWA 8 hour	375	375		
	STEL 15 min	568	568		
Propan-2-ol	TWA 8 hour	-	999		
	STEL 15 min	-	1250		
2-Butoxyethanol	TWA 8 hour	98	123		
	STEL 15 min	246	-		
Ammonia	TGG 8 uur	14	18		
	TGG 15 min.	36	25		



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Personal protective equipment:

The efficiency of personal protective equipment depends among other things on temperature and degree of ventilation. Always get professional advice for the particular local situation.



- Body protection : Use of specific protective industrial clothing is not required under normal conditions of use. See also under additional information.
- Respiratory protection : Take care of sufficient ventilation. Wear a gas filter type A (brown), class I or higher on e.g. a facemask in accordance with EN 140, in case of large scale exposure.
- Hand protection : Wear appropriate safety gloves. See also under additional information.
- Eye protection : Wear appropriate safety glasses when there is danger of possible eye contact.

Additional information:

- Protective clothing : In case of large scale exposure wear nitrile protective clothing, overalls or suit, and similar boots in accordance with EN 365/367 resp. 345.
- Safety gloves : Wear nitrile gloves. Indication of permeation breakthrough time: not permeable (propan-2-ol), not known (limonene).

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: Liquid	
Colour	: Blue	
Odour	: Characteristic	
pH	: Not known	
Solubility in water	: Slightly Soluble	
Solubility in fat	: Not known	
Partition coefficient (n-octanol / water)	: Not known	
Flash point	: 24 °C	(PMcc)
Auto ignition temperature	: Not applicable	
Boiling point/ boiling range	: 82 °C	
Melting point/ melting range	: < 0 °C	
Explosive properties	: Not known	Limonene: lower explosion limit: 0.7% Propan-2-ol: upper explosion limit 12%
Oxidizing properties	: Not applicable	
Decomposition temperature	: Not applicable	
Viscosity (40oC)	: < 10	
Vapour pressure (25°C)	: Not known	
Relative density (20°C)	: ± 0,8 g/ml	
Evaporation rate	: Not known	(n-butyl acetate = 1)

10 STABILITY AND REACTIVITY

- Stability : Stable under normal conditions.
- Conditions to avoid : See section 7.
- Materials to avoid : Keep away from oxidizing substances.
- Hazardous decomposition products : None known.

11 TOXICOLOGICAL INFORMATION

No toxicological research has been carried out on this product.

- Inhalation : Vapours may cause drowsiness and dizziness. Irritation of respiratory airways possible when vapour concentrations exceed threshold limits. Spray may cause irritation to respiratory airways and coughing.



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- Skin contact : Irritating to skin. May cause sensitisation by skin contact. Prolonged contact may dry out and degrease the skin.
- Eye contact : Slight irritation possible.
- Ingestion : Ingestion may cause vomiting, nausea and diarrhoea. After ingestion, at vomiting, risk of aspiration in the lungs. May cause bronchopneumonia.

Toxicological information:

Chemical name	Toxicity (mg/kg or mg/m ³)	Irritation	Sensitization
Limonene ((R)-p-mentha-1,8-diene)	LD ₅₀ : 4400 (rat, oral) LD ₅₀ : > 2000 (rabbit, dermal)	Irritating (skin)	Sensitising (skin)
2-Butoxyethanol	LD ₅₀ : 470 (oral)	Irritating (rabbit, eye) Irritating (dermal, guinea pig)	Not sensitising
Propan-2-ol	LD ₅₀ : 5045 (rat, oral) LD ₅₀ : 12800 (dermal) LC ₅₀ : 4160 (inh.)	Slightly irritating (skin) Irritating (eyes)	Not sensitizing

12 ECOLOGICAL INFORMATION

No ecotoxicological research has been carried out on this product.

- Ecotoxicity : Very toxic to aquatic organisms.
- Mobility : Spilled product can penetrate into the ground and get into the ground water and surface water thus polluting ground and surface water.
- Persistence – degradability : Data on the biodegradation of this product are not available. May cause long-term adverse effects in the aquatic environment.
- Bio accumulative potential : No specific information known.

Ecotoxicological information:

Chemical name	Toxicity (mg/l)	Log P(ow)	BCF	Degradability
Limonene	LC ₅₀ : < 1	4.2	-	-

VOC-content : 820 g/l

13 DISPOSAL CONSIDERATIONS

- Product residues : Do not dispose empty pack with regular household waste. Treat product residues and non-empty pack as hazardous waste.
- European waste catalogue : Dispose hazardous waste in accordance with Directive 91/689/EEC under acknowledgement of a waste code according to Commission Decision 2000/532/EC to an official chemical waste depot.
- Comment : Attention is drawn to the possible existence of mandatory and regulatory communal, national or local requirements governing disposal of waste.

14 TRANSPORT INFORMATION

- UN number : UN 1993
- Transport name : FLAMMABLE LIQUID, N.O.S. (limonene, 1-methoxy-2-propanol, propan-2-ol)

Land (road / railway)

- ADR/RID class : 3
- Classification code : F1
- Packaging group : III



Sea

- IMDG class : 3
- Packaging group : III



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EmS (fire / spill) : F-E / S-E
Marine pollutant : Yes



Air
IATA class : 3

15 REGULATORY INFORMATION

Community regulations : EC Directive 67/548/EEC (substances), 99/45/EC (dangerous preparations) and other regulations.

Hazard symbols : Xn, harmful N, dangerous for the environment



R- and S-phrases : R10 Flammable.
R38 Irritating to skin.
R43 May cause sensitisation by skin contact.
R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R65 Harmful: may cause lung damage if swallowed.
R67 Vapours may cause drowsiness and dizziness.
S23 Do not breathe gas/fumes/vapour/spray.
S24 Avoid contact with skin.
S37 Wear suitable gloves.
S51 Use only in well-ventilated areas.

Other information : The packaging shall carry the text:
: Contains limonene.

Ingredient declaration according to Regulation 648/2004:

Contains:	Concentration (%)
Aliphatic hydrocarbons	> 30
Limonene	

16 OTHER INFORMATION

The information in this safety data sheet is compiled in compliance with Regulation (EC) 1907/2006 dated 18 December 2006 and accurate to the best of our knowledge and experience at the date of issue specified. It is the user's obligation to use this product safely and to comply with all applicable laws and regulations concerning the use of the product. This safety data sheet complements the technical information sheets but does not replace them and offers no warranty with regard to product properties.

Users are also forewarned for any hazards involved when the product is used for other purposes than those for which it is designed.

Changed or new information with regard to the previous release is indicated with an asterisk (*).

Full text of R-phrases mentioned in section 3:

R10 Flammable.
R11 Highly flammable.
R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.
R34 Causes burns.
R36 Irritating to eyes.
R36/38 Irritating to eyes and skin.



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R38	Irritating to skin.
R43	May cause sensitisation by skin contact.
R50	Very toxic to aquatic organisms.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R65	Harmful: may cause lung damage if swallowed.
R67	Vapours may cause drowsiness and dizziness.

History

Date of first issue : 10-08-2007
Date of second issue : 28-09-2007

Herewith all previous issues are expired.