

# According to Regulation (EU) No 2020/878

#### SECTION 1 IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product name : AVERY DENNISON ADHESIVE REMOVER

Product code : 09202020, CA6970001 UFI : A7NE-V3D7-C512-SR6R

1.2. Relevant identified uses of the substance or mixture and uses advised against

Application : SU22 Professional use. For industrial or institutional use. PC35 Cleaning agent. Other cleaning,

care and maintenance products (excludes biocidal products).

1.3. Details of the supplier of the safety data sheet

Supplier : Avery Dennison Graphics Solutions

Willem Einthovenstraat 11

2342 BH Oegstgeest, The Netherlands

Telephone : +31-85000 2000

E-mail : gs.msds@eu.averydennison.com Website : www.graphics.averydennison.eu

1.4. Emergency telephone number

EMERGENCY TELEPHONE NUMBER, for DOCTORS/FIRE BRIGADE/POLICE only:

NL - Telephone : +31-85000 2000 (24/7)

EMERGENCY TELEPHONE NUMBER (for DOCTORS only):

National Poisons Information Service +44 344 892 0111 (24/7)

## SECTION 2 HAZARDS IDENTIFICATION

#### 2.1. Classification of the substance or mixture

CLP classification : Flammable liquid, category 3. Skin irritation, category 2. Eye irritation, category 2. Skin

(1272/2008/EC) sensitization, category 1. Aspiration hazard, category 1. Specific target organ toxicity after single

exposure, category 3. Hazardous to the aquatic environment — Acute category 1. Hazardous to the

aquatic environment — Chronic category 1.

Human health hazards : May be fatal if swallowed and enters airways. Causes skin irritation. May cause an allergic skin

reaction. Causes serious eye irritation. May cause drowsiness or dizziness.

Physical/chemical hazards : Flammable.

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

Other information : Do not breathe spray. Use only in well-ventilated areas.

### 2.2. Label elements

Label elements (1272/2008/EC):

Hazard pictograms









Signal word : Danger

H- and P-phrases : H226 Flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

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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.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P273	Avoid release to the environment.
P280 hands	Wear protective gloves and eye protection.
eyes	
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P331	Do NOT induce vomiting.
P370+P378	In case of fire: Use carbondioxide (CO2), alcohol resistant foam, dry chemical or
alc resist	water fog to extinguish.
P391	Collect spillage.

Additional labelling (for all packaging sizes)

: Contains: d-Limonene ; 1-Methoxy-2-propanol ; Propan-2-ol ; Linalool .

: 67 per cent of the mixture consists of component(s) of unknown acute inhalation toxicity.

#### 2.3. Other hazards

Other information : Does not contain PBT or vPvB substances in concentrations higher than 0,1%.

#### SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

### 3.2. Mixtures

Product description : Mixture. Information on hazardous substances:

Substance name	Concentration (w/w) (%)	CAS nr.	EC number	Remark	REACH nr.
d-Limonene	50 - 75	5989-27-5	227-813-5		01-2119529223-47
1-Methoxy-2-propanol	10 - < 20	107-98-2	203-539-1		01-2119457435-35
Propan-2-ol	10 - < 20	67-63-0	200-661-7		01-2119457558-25
2-Butoxyethanol	1 - < 5	111-76-2	203-905-0		01-2119475108-36
Linalool	0,1 - < 1	78-70-6	201-134-4		

Substance name	Hazard Class	H-phrases	Pictograms	
d-Limonene	Aquatic Acute 1;	H226; H304; H315;	GHS02; GHS07;	M (acute) = 1
	Aquatic Chronic 1; Asp.	H317; H400; H410	GHS08; GHS09	
	Tox. 1; Flam. Liq. 3;			
	Skin Irrit. 2; Skin Sens.			
	1B			
1-Methoxy-2-propanol	Flam. Liq. 3; STOT SE	H226; H336	GHS02; GHS07	
	3			
Propan-2-ol	Eye Irrit. 2; Flam. Liq.	H225; H319; H336	GHS02; GHS07	
	2; STOT SE 3			
2-Butoxyethanol	Acute Tox. 4; Eye Irrit.	H302; H315; H319;	GHS07	
	2; Skin Irrit. 2	H332		
Linalool	Eye Irrit. 2; Skin Irrit. 2;	H315; H317; H319	GHS07	
	Skin Sens. 1B			

Occupational exposure limit(s), if relevant, are listed in section 8.

Reference is made to chapter 16 for full text of each relevant H phrase.

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**SECTION 4** FIRST-AID MEASURES

#### 4.1. Description of first aid measures

First aid measures

Inhalation : Move victim into fresh air. Consult a doctor if victim feels unwell.

: Take off contaminated clothing. Wash off skin with plenty of water and soap before product dries up. Skin contact

Consult a doctor if irritation occurs.

Eye contact : Wash out with (lukewarm) water. Remove contact lenses. Consult a doctor.

Ingestion : Do not induce vomiting. Do rinse the mouth. Give one glass of water. As necessary give 1 or

2 soupspoons of laxative (sodium sulphate). Never give anything by mouth to an unconscious

person. Consult a doctor immediately if victim feels unwell.

#### 4.2. Most important symptoms and effects, both acute and delayed

Effects and symptoms

Inhalation : May cause headache, drowsiness, dizziness and a feeling of sickness. May cause irritation to

respiratory airways and coughing.

Skin contact : Irritant. May cause redness and irritation, sensitisation. May produce an allergic reaction. May

cause dry skin.

Eye contact : Irritant. May cause redness and pain.

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

lack of breath.

## 4.3. Indication of any immediate medical attention and special treatment needed

: None known. Note to physicians

#### **SECTION 5** FIRE-FIGHTING MEASURES

### 5.1. Extinguishing media

Extinguishing media

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

Not suitable : Water jet.

### 5.2. Special hazards arising from the substance or mixture

Special exposure hazards : Will float on water and can be reignited. The vapour is heavier than air, spreads along the ground

and distant ignition is possible.

Hazardous thermal decomposition products : Carbon monoxide may be evolved if incomplete combustion occurs.

#### 5.3. Advice for firefighters

Special protective equipment for fire-fighters : Use adequate respiratory equipment in case of insufficient ventilation.

**SECTION 6 ACCIDENTAL RELEASE MEASURES** 

## 6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions : Danger of slipping. Clean up spills immediately. Wear shoes with non-slip soles. Avoid contact

with spilled or released material. Keep away from sources of ignition - No smoking. Vapours are

heavier than air. Build up (of gasses) in low areas involves risk of suffocation.

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### 6.2. Environmental precautions

Environmental precautions : Avoid release of product into sewers, surface water and/or ground water. In case of large spills:

contain with dike. Waste product should not be allowed to contaminate soil or water.

Other information : Notify authorities if any exposure to the general public or the environment occurs or is likely to

occur.

## 6.3. Methods and material for containment and cleaning up

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.

#### 6.4. Reference to other sections

Reference to other sections: See also section 8.

**SECTION 7 HANDLING AND STORAGE** 

### 7.1. Precautions for safe handling

Handling : Handle in accordance with good occupational hygiene and safety practices in well-ventilated areas.

> Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Electrostatic discharge may cause fire. Ensure electrical continuity by bonding and grounding (earthing) all equipment. Do not breathe spray. Do not breathe vapour. Avoid contact with skin and

eyes. Avoid splashing. Wear protective clothing.

### 7.2. Conditions for safe storage, including any incompatibilities

: Keep in a cool, dry and well-ventilated place (< 35 °C). Protect from sunlight. Keep away from Storage

oxidizing agents. Keep away from food, drink and animal feedingstuffs.

Recommended packaging

Non recommended

packaging

Keep only in the original container.

Steel (except stainless steel). PE and PP.

7.3. Specific end use(s)

Use : Use only as directed. Do not mix with other products.

**SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION** 

8.1. Control parameters

Occupational exposure

limits

: Occupational exposure limits have not been established for this product. Derived no-effect levels (DNEL) have not been established for this product. Predicted no-effect concentrations (PNEC) have

not been established for this product.

Workplace exposure limits (mg/m³):

Chemical name	Country	TWA 8 hour	STEL 15 min	Comments	Source
		(mg/m3)	(mg/m3)		
1-Methoxy-2-propanol	GB	375	560	Skin	
1-Methoxy-2-propanol	EC	375	568	Skin	
Propan-2-ol	GB	999	1250	-	
2-Butoxyethanol	EC	100	246	Skin	
2-Butoxyethanol	GB	123	246	Skin; BMGV	

Derived no-effect level (DNEL) for workers:

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Chemical name	Route of	DNEL, short-te	erm	DNEL, long-term	
	exposure				
		Local effect	Systemic effect	Local effect	Systemic effect
d-Limonene	Inhalation				66,7 mg/m3
	Dermal	İ			9,5 mg/kg bw/day
1-Methoxy-2-propanol	Inhalation	553,5 mg/m3			369 mg/m3
	Dermal				50,6 mg/kg bw/day
Propan-2-ol	Dermal				888 mg/kg bw/day
	Inhalation				500 mg/m3
2-Butoxyethanol	Inhalation	246 mg/m3	1091 mg/m3		98 mg/m3
	Dermal		89 mg/kg bw		125 mg/kg bw/day
Linalool	Inhalation		16,5 mg/m3		2,8 mg/m3
	Dermal	3 mg/kg bw	5 mg/kg bw	3 mg/kg bw/day	2,5 mg/kg bw/day

Derived no-effect level (DNEL) for consumers:

Chemical name	Route of	DNEL, short-te	erm	DNEL, long-teri	n	
	exposure				-	
	•	Local effect	Systemic effect	Local effect	Systemic effect	
d-Limonene	Inhalation				16,6 mg/m3	
	Dermal	İ			4,8 mg/kg bw/day	
	Oral				4,8 mg/kg bw/day	
1-Methoxy-2-propanol	Oral				3,3 mg/kg bw/day	
	Inhalation				43,9 mg/m3	
	Dermal				18,1 mg/kg bw/day	
Propan-2-ol	Dermal				319 mg/kg bw/day	
•	Inhalation				89 mg/m3	
	Oral				26 mg/kg bw/day	
2-Butoxyethanol	Dermal		89 mg/kg bw		75 mg/kg bw/day	
	Inhalation	147 mg/m3	426 mg/m3		59 mg/m3	
	Oral		26.7 mg/kg bw		6.3 mg/kg bw/day	
_inalool	Dermal	1,5 mg/kg bw	2,5 mg/kg bw	15 mg/kg bw/da	ay 1,25 mg/kg bw/day	
	Inhalation		4,1 mg/m3		0,7 mg/m3	
	Oral		1,2 mg/kg bw		0,2 mg/kg bw/day	

## Predicted no-effect concentration (PNEC):

Chemical name	Route of exposure	Fresh water	Marine water	
d-Limonene	Water	0.014 mg/l	0.0014 mg/l	
	Sediment	3.85 mg/kg	0.385 mg/kg	
	STP			1,8 mg/l
	Soil			0.763 mg/kg
	Oral			133 mg/kg food
1-Methoxy-2-propanol	Water	10 mg/l	1 mg/l	
	Sediment	52,3 mg/kg	5,2 mg/kg	İ
	Intermittent water			100 mg/l
	STP			100 mg/l
İ	Soil			5,49 mg/kg
Propan-2-ol	Water	140,9 mg/l	140,9 mg/l	
	Sediment	552 mg/kg	552 mg/kg	
	Intermittent water			140,9 mg/l
İ	STP			2251 mg/l
	Soil			28 mg/kg
	Oral			160 mg/kg food
2-Butoxyethanol	Water	8.8 mg/l	0.88 mg/l	
	Sediment	34.6 mg/kg	3.46 mg/kg	
İ	Intermittent water			9,1 mg/l
	STP			463 mg/l

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	Soil Oral			2.33 mg/kg 0.02 mg/kg food	
Linalool	Water	0,2 mg/l	0,02 mg/l		
İ	Sediment	2,22 mg/kg	0,222 mg/kg		İ
İ	Intermittent water			2 mg/l	İ
İ	STP			10 mg/l	İ
	Soil			0,327 mg/kg	İ
	Oral			7,8 mg/kg food	İ

8.2. Exposure controls

Engineering measures : Use only in well-ventilated areas. Comply with standard precautionary measures for working with

chemicals.

Hygienic measures : When using do not eat, drink or smoke.

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 : Wear appropriate protective clothing, overalls or suit, and similar boots in accordance with EN

365/367 resp. 345. Suitable material: nitril. Indication of permeation breakthrough time: 6 hours.

: Take care of sufficient ventilation. Wear suitable respiratory protection in case of large scale Respiratory protection

exposure. Suitable: gas filter type AK (brown/green), class I or higher on e.g. a facemask in

accordance with EN 140.

Hand protection : Wear appropriate safety gloves in accordance with EN 374. Suitable material: nitril. ± 0,5 mm.

Indication of permeation breakthrough time: 6 hours.

Eye protection Wear appropriate safety glasses with side shields, in accordance with EN 166, when there is

danger of possible eye contact.

#### **SECTION 9** PHYSICAL AND CHEMICAL PROPERTIES

# 9.1. Information on basic physical and chemical properties

Physical state : Liquid. Colour Colourless. Odour Characteristic. Odour threshold Not known.

Not applicable. Almost waterfree product. Hq Not soluble.

Solubility in water

Partition coefficient (n-oc-

tanol/water)

Not measured. Not relevant for mixtures. : Not known.

: 24 °C Closed cup. Flash point : Not applicable. Liquid. See flashpoint. Flammability (solid, gas)

Auto ignition temperature > 230 °C Boiling point/boiling range 82 °C

Melting point/melting range: < -20 °C

Explosive properties Not an explosive.

Explosion limits (% in air) Not known. Lower explosion limit in air (%): 0,7 (d-Limonene)

Upper explosion limit in air (%): 13,74 ( 1-Methoxy-2-propanol )

Oxidising properties Not applicable. Does not contain oxidizing substances.

Decomposition temperature : Not applicable.

Viscosity (20°C) 1 mm2/sec (1 mm2/sec = 1 cSt)

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Viscosity (40°C) : < 20,5 mm2/sec Vapour pressure (20°C) : > 2300 Pa

Relative vapour density : > 1 (air = 1)

Relative density (20°C) : 0,8 g/ml
Particle characteristics : Not applicable.

9.2. Other information

Other information : Not relevant.

#### SECTION 10 STABILITY AND REACTIVITY

10.1. Reactivity

Reactivity : See sub-sections below.

10.2. Chemical stability

Stability : Stable under normal conditions.

10.3. Possibility of hazardous reactions

Reactivity : No other hazardous reactions known.

10.4. Conditions to avoid

Conditions to avoid : See section 7.

10.5. Incompatible materials

Materials to avoid : Keep away from oxidizing agents.

10.6. Hazardous decomposition products

Hazardous decomposition : Not known.

products

## SECTION 11 TOXICOLOGICAL INFORMATION

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

No toxicological research has been carried out on this product. Inhalation

Acute toxicity : Calculated LC50: > 10 mg/l. Ingredients of unknown toxicity: 67 %. ATE: > 5 mg/l. Not classified

- based on available data, the classification criteria are not met. May cause damage to organs. Target organ(s): Central nervous system. Effect(s): Breathing of high vapour concentrations may cause central nervous system (CNS) depression resulting in dizziness, lightheadedness, headache, nausea and loss of coordination. Continued inhalation may result in unconsciousness and death.

Corrosion/irritation : May cause irritation to respiratory airways and coughing. Not classified - based on available data,

the classification criteria are not met.

Sensitisation : Does not contain substances classified as respiratory sensitiser. Not classified - based on available

data, the classification criteria are not met.

Carcinogenicity : Does not contain carcinogenic substances. Not classified - based on available data, the

classification criteria are not met. Does not contain carcinogenic substances.

Mutagenicity : Does not contain mutagenic substances. Not classified - based on available data, the classification

criteria are not met.

Skin contact

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Acute toxicity : Calculated LD50: > 2190 mg/kg.bw. Ingredients of unknown toxicity: < 1 %. ATE: > 2000 mg/kg.bw.

Low toxicity. Not classified - based on available data, the classification criteria are not met.

Corrosion/irritation : Irritant. May cause redness. Prolonged contact may dry out and defat the skin. Sensitisation : May cause sensitisation by skin contact. May produce an allergic reaction.

Mutagenicity : Does not contain mutagenic substances. Not classified - based on available data, the classification

criteria are not met.

Eye contact

Corrosion/irritation : Irritant.

Ingestion

Acute toxicity: Calculated LD50: > 4423 mg/kg.bw. Ingredients of unknown toxicity: < 1 %. ATE: > 2000 mg/kg.bw.

Low toxicity. Not classified - based on available data, the classification criteria are not met.

Aspiration : Aspiration into the lungs when swallowed or vomited may cause chemical pneumonitis which can

be fatal. If swallowed, if any of the following delayed signs and symptoms appear within the next 6 hours, transport to the nearest medical facility: fever greater than 38.3° C, shortness of breath,

chest congestion or continued coughing or wheezing.

Corrosion/irritation : May cause a feeling of sickness, stomachache, vomiting and diarrhoea.

Carcinogenicity : Does not contain carcinogenic substances. Not classified - based on available data, the

classification criteria are not met.

Mutagenicity : Does not contain mutagenic substances. Not classified - based on available data, the classification

criteria are not met.

Reprotoxicity : Development: Not expected to be reprotoxic. Development: Not classified - Based on available

data, the classification criteria are not met. Fertility: not expected to be reprotoxic. Fertility: Not

classified - based on available data, the classification criteria are not met.

#### Toxicological information:

Chemical name	Property		Method	Test animal
d-Limonene	Genotoxicity - in vivo	> 2000 mg/kg bw/d		Rat
	NOEL (carcinogenicity,	> 300 mg/kg bw/d	OECD 451	Rat
	oral)			
	Eye irritation	Non-irritant	OECD 405	Rabbit
	Mutagenicity	Negative	OECD 471	
	Skin sensitisation	10075 ug/cm2	OECD 429	Mouse
	NOAEL (development, oral)	600 mg/kg bw/d		Rat
	Skin irritation	Irritant		<b> </b>
	LD50 (dermal)	> 2000 mg/kg bw		Rabbit
	LD50 (oral)	4400 mg/kg bw		Rat
	Genotoxicity - in vitro	Not genotoxic		
	NOAEL (oral)	150 mg/kg bw/d		Rat
1-Methoxy-2-propanol	LC50 (inhalation)	> 26315 mg/m3	OECD 403	Rat
	Eye irritation	Mildly irritant	OECD 405	Rabbit
	NOAEL (oral)	919 mg/kg bw/d	OECD 407	Rat
	NOEL (inhalation)	300 mg/m3	OECD 453	Rat
	NOAEL (dermal)	> 1000 mg/kg bw/d	OECD 410	Rabbit
	LD50 (oral)	3739 mg/kg bw	OECD 401	Rat
	Skin irritation	Non-irritant	OECD 404	Rabbit
	Genotoxicity - in vitro	Not genotoxic	OECD 473	
	NOEL (carcinogenicity, inh.)	11278 mg/m3	OECD 453	Rat
	Mutagenicity	Negative	OECD 471	Salmonella typhimurium
	Skin sensitisation	Not sensitizing		Guinea pig
	LD50 (dermal)	> 2000 mg/kg bw	OECD 402	Rat
	NOAEL (fertility, inh.)	1128 mg/m3	OECD 416	Rat
	NOAEL (developmental	> 11278 mg/m3	OECD 414	Rat
	toxicity, inh.)			

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Propan-2-ol	LD50 (oral)	5840 mg/kg bw	OECD 401	Rat
	LD50 (dermal)	12800 mg/kg bw		Rat
	LC50 (inhalation)	46600 mg/m3		Rat
	Skin irritation	Slightly irritant	OECD 404	Rabbit
	Eye irritation	Irritant	OECD 405	Rabbit
	NOAEL (fertility, oral)	853 mg/kg bw/d	OECD 405 OECD 415	Rat
		596 mg/kg bw/d	OECD 415	Rat
	NOAEL (development, oral)			
	NOEL (carcinogenicity, oral)	Not carcinogenic	OECD 416	Rat
	Skin sensitisation	Not sensitizing	OECD 406	Guinea pig
	Mutagenicity	Negative	OECD 471	
	NOAEL (inhalation)	12500 mg/m3	OECD 451	Rat
	Genotoxicity - in vivo	Not genotoxic	OECD 474	Mouse
	NOEL (carcinogenicity, inh.)	12500 mg/m3		Mouse
	Genotoxicity - in vitro	Not genotoxic	OECD 476	Det
	NOAEL (oral)	870 mg/kg bw/d		Rat
O. Dustannia thanan	Skin irritation - estimate		OFOD 405	Dakkit
2-Butoxyethanol	Eye irritation	Irritant	OECD 405	Rabbit
	LC50 (inhalation)	2200 mg/m3	OECD 403	Rat
	LD50 (dermal)	435 mg/kg bw	OECD 402	Rabbit
	NOAEL (inhalation)	152 mg/m3	OECD 413	Rat
	NOAEL (fertility, oral)	720 mg/kg bw/d		
	Genotoxicity - in vitro	Not genotoxic		
	NOEL (carcinogenicity, oral)	Not carcinogenic		
	1 '	1746 mg/kg bw	OECD 401	Rat
	LD50 (oral)	1746 mg/kg bw		
	NOAEL (dermal)	> 150 mg/kg bw/d	OECD 411	Rabbit
	Genotoxicity - in vivo	Not genotoxic	OECD 474	Mouse
	Mutagenicity	Negative	OECD 471	Salmonella typhimurium
	NOAEL (development, oral)	> 100 mg/kg bw/d	OECD 414	Rat
	Skin irritation	Irritant	OECD 404	Rabbit
	NOAEL (oral)	< 69	OECD 408	Rat
	Skin sensitisation	Not sensitizing	OECD 406	Guinea pig
	LD50 (oral) - estimate	1500 mg/kg bw		
Linalool	NOAEL (development,	365 mg/kg bw/d		Rat
	oral)			
	Eye irritation	Non-irritant	OECD 405	Rabbit
	Skin sensitisation	12650 ug/cm2	OECD 429	Mouse
	Mutagenicity	Negative	OECD 471	Salmonella typhimurium
	NOAEL (fertility, oral)	500 mg/kg bw/d		Rat
	Skin irritation	Irritant	OECD 404	Rabbit
	NOAEL (dermal)	250 mg/kg bw/d	OECD 411	Rat
	Genotoxicity - in vivo	Not genotoxic	OECD 475	Mouse
	LD50 (dermal)	5610 mg/kg bw	<b> </b>	Rabbit
	Skin irritation	Mildly irritant		Human
İ	LD50 (oral)	2790 mg/kg bw		Rat
	NOAEL (oral)	117 mg/kg bw/d		Rat
	·			

## 11.2. Information on other hazards

Endocrine disrupting

properties

: Not applicable.

Other information : Not applicable.

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### SECTION 12 ECOLOGICAL INFORMATION

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## 12.1. Toxicity

No ecotoxicological research has been carried out on this product.

Ecotoxicity : Very toxic to aquatic organisms. Calculated LC50 (fish): 1 mg/l. Calculated EC50 (waterflea): < 1

mg/l. Contains 0 % of components with unknown hazards to the aquatic environment.

## 12.2. Persistence and degradability

Persistence – degradability: May cause long-term adverse effects in the aquatic environment.

#### 12.3. Bioaccumulative potential

Bioaccumulative potential : No specific information known.

12.4. Mobility in soil

Mobility : Adsorbs to soil and has low mobility. Floats on water.

#### 12.5. Results of PBT and vPvB assessment

PBT/vPvB assessment : Does not contain PBT or vPvB substances in concentrations higher than 0,1%.

#### 12.6. Endocrine disrupting properties

**Endocrine disrupting** 

properties

: Not applicable.

12.7. Other adverse effects

Other adverse effects : Not applicable.

## Ecological information:

Chemical name	Property		Method	Test animal
d-Limonene	LC50 (fish)	0,720 mg/l	OECD 203	Pimephales promelas
	EC50 (waterflea)	0,36 mg/l	OECD 202	Daphnia magna
	Ultimate aerobic	> 92 %		
	biodegradation (%)			
	NOEC (waterflea) -	0,15 mg/l.d		Daphnia magna
	chronic			
	IC50 (algea)			
d-Limonene	Log P(ow)	4,38		

### SECTION 13 DISPOSAL CONSIDERATIONS

#### 13.1. Waste treatment methods

Product residues : Do not dispose empty pack with waste produced by households. Containers may be recycled. Treat

product residues and non-empty pack as hazardous waste.

Additional warning : Residues may cause an explosion hazard. Do not puncture, cut or weld uncleaned drums.

Waste water discharge : Do not dispose into the environment, in drains or in water courses.

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.

Local legislation : Disposal should be in accordance with applicable regional, national, and local laws and regulations.

Local regulations may be more stringent than regional or national requirements and must be

complied with.

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#### SECTION 14 TRANSPORT INFORMATION

#### 14.1. UN number or ID number

UN nr. : UN 1993

## 14.2. UN proper shipping name

Transport name : FLAMMABLE LIQUID, N.O.S. (d-Limonene; Propan-2-ol)
Transport name (IMDG, : FLAMMABLE LIQUID, N.O.S. (d-Limonene; Propan-2-ol)

IATA)

#### 14.3/14.4/14.5. Transport hazard class(es)/Packing group/Environmental hazards

ADR/RID/ADN (road/railway/inland waterways)

Class : 3 Classification code : F1 Packaging group : III

Danger label : 3 + the "environmentally hazardous substance" mark.

Tunnel restriction : D/E

code



Other information : Not intended for carriage by tank-vessels on inland waterways. Packagings with a quantity of 5 l or

less for liquids or 5 kg, or less for solids need not be marked with the environmentally hazardous

substance mark.

IMDG (sea)

Class : 3 Packaging group : III

EmS (fire / spill) : F - E / S - E

Marine pollutant : Yes

Other information : Packagings with a quantity of 5 I or less for liquids or 5 kg, or less for solids need not be marked

with the environmentally hazardous substance mark.

IATA (air)

Class : 3

## 14.6. Special precautions for user

Other information : Country specific variations may apply. It is possible that a "Limited Quantity" exemption applies to

the transport of this product.

## 14.7. Maritime transport in bulk according to IMO instruments

Marpol : Not intended to be carried in bulk according to International Maritime Organisation (IMO)

instruments. Packaged liquids are not considered bulk.

### SECTION 15 REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

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Community regulations : Regulation (EU) No 2020/878 (REACH), Regulation (EC) No 1272/2008 (CLP) and other

regulations.

Ingredient declaration according to Regulation EC 648/2004:

Contains:	Concentration (%)
Aliphatic hydrocarbons	> 30
Limonene, Linalool.	

#### 15.2. Chemical safety assessment

Chemical safety

: Not applicable.

assessment

SECTION 16 OTHER INFORMATION

\*

#### 16.1. Other information

The information in this safety data sheet is compiled in compliance with Regulation (EU) No 2020/878 dated 18 June 2020 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 (\*).

List of abbreviations and acronyms that could be (but not necessarily are) used in this safety data sheet:

ADR : European Agreement concerning the International Carriage of Dangerous Goods by Road

ATE : Acute Toxicity Estimate

CLP : Classification, Labeling & Packaging

CMR : Carcinogenic, Mutagenic or toxic for Reproduction

EEC : European Economic Community

GHS : Globally Harmonized System of Classification and Labelling of Chemicals

IATA : International Air Transport Association IBC code : International Bulk Chemical Code

IMDG : International Maritime Dangerous Goods Code LD50/LC50 : Lethal Dose/Concentration for 50% of a population

MAC : Maximum Allowable Concentration

MARPOL : International Convention for the Prevention of Pollution From Ships

NO(A)EL : No Observed (Adverse) Effect Level

OECD : Organisation for Economic Co-operation and Development

PBT : Persistent, Bioaccumulative and Toxic

PC : Chemical product category

PT : Product type

REACH : Registration, Evaluation, Authorisation and Restriction of Chemicals

RID : Regulations concerning the International Carriage of Dangerous Goods by Rail

STP : Sewage Treatment Plant

SU : Sector of Use

TWA/STEL : Time-Weighted Average/Short Term Exposure Limit

UN : United Nations

UFI : Unique formula identifier
VOC : Volatile Organic Compounds

vPvB : Very Persistent and Very Bioaccumulative

Key data used to compile the Safety Data Sheet are from, but not limited to, one or more sources of information e.g. toxicological data from material suppliers, CONCAWE, IFRA, CESIO, Regulation EG 1272/2008, etc.

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Procedure used to derive the classification according to Regulation (EC) No. 1272/2008:

Flam. Liq. 3 : On basis of test data.

Skin Irrit. 2 : Calculation method.

Eye Irrit. 2 : Calculation method.

Skin Sens. 1/1A/1B : Calculation method.

STOT SE 3 : Calculation method.

Asp. Tox. 1 : On basis of test data. Calculation method. Expert judgement.

Aquatic Chronic 1 : Calculation method.

Aquatic Acute 1 : Calculation method.

Full text of hazard classes mentioned in section 3:

Flam. Liq. 2 : Flammable liquid, category 2. Flam. Liq. 3 : Flammable liquid, category 3. Acute Tox. 4 : Acute toxicity, category 4. Skin Irrit. 2 : Skin irritation, category 2. Eye Irrit. 2 : Eye irritation, category 2.

Skin Sens. 1/1A/1B : Skin sensitization, category 1/1A/1B.

STOT SE 3 : Specific target organ toxicity after single exposure, category 3.

Asp. Tox. 1 : Aspiration hazard, category 1.

Aquatic Chronic 1 : Hazardous to the aquatic environment — Chronic category 1.

Aquatic Acute 1 : Hazardous to the aquatic environment — Acute category 1.

Full text of H-phrases mentioned in section 3:

H225 Highly flammable liquid and vapour. H226 Flammable liquid and vapour.

H302 Harmful if swallowed.

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.

H332 Harmful if inhaled.

H336 May cause drowsiness or dizziness.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

Advice on any training appropriate for workers: none.

Number format : "," used as decimal separator.

End of safety data sheet.

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