		Devicing on A
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	Safety Data Sheet	I
	ding to Annex II to REACH - Regulation 2015/830	toking
SECTION 1. Identification of the sub	stance/mixture and of the company/under	taking
<b>1.1. Product identifier</b> Code: Product name	411 00 16480-4055 REMOVE UNIVERSAL SEALANTS	
1.2. Relevant identified uses of the substance or n         Intended use       Solvent-based aeros	nixture and uses advised against ol for silicone removal	
<b>1.3. Details of the supplier of the safety data sheet</b> Name Full address District and Country	Meccanocar Italia S.r.I. Via San Francesco, 22 56033 Capannoli (PI) Italy	
	Tel. +39 0587 609433	
	Fax +39 0587 607145	
e-mail address of the competent person		
responsible for the Safety Data Sheet	moreno.meini@meccanocar.it	
<b>1.4. Emergency telephone number</b> For urgent inquiries refer to	National Poisons Information Service: +44 121 507 4123	1
SECTION 2. Hazards identification		

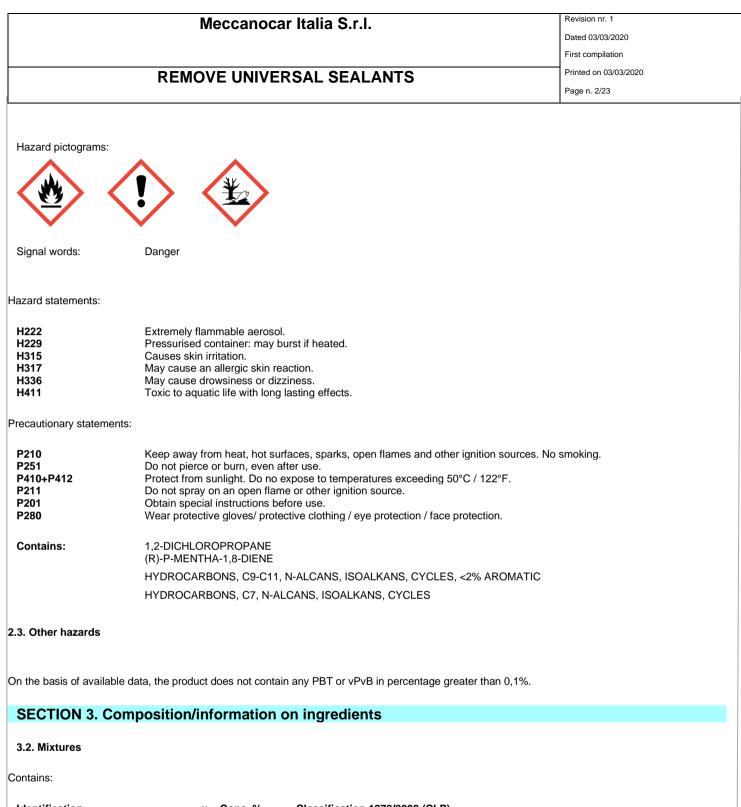
#### 2.1. Classification of the substance or mixture

The product is classified as hazardous pursuant to the provisions set forth in (EC) Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of (EU) Regulation 2015/830. Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

Hazard classification and indication:		
Aerosol, category 1	H222 H229	Extremely flammable aerosol. Pressurised container: may burst if heated.
Skin irritation, category 2 Skin sensitization, category 1 Specific target organ toxicity - single exposure, category 3 Hazardous to the aquatic environment, chronic toxicity, category 2	H315 H317 H336 H411	Causes skin irritation. May cause an allergic skin reaction. May cause drowsiness or dizziness. Toxic to aquatic life with long lasting effects.

#### 2.2. Label elements

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.



Identification	x = Conc. %	Classification 1272/2008 (CLP)
HYDROCARBONS, C9-C11, N- ALCANS, ISOALKANS, CYCLES, <2% AROMATIC	05 4 1 07 5	
CAS 64742-48-9	35 ≤ x <  37,5	Flam. Liq. 3 H226, Asp. Tox. 1 H304, STOT SE 3 H336, EUH066
EC 919-857-5		
INDEX -		
Reg. no. 01-2119463258-33-XXXX		
HYDROCARBONS C3-4		

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CAS 68476-40-4	24 ≤ x < 25,5	Flam. Gas 1A H220, Press. Gas (Liq.) H280, Classifica	tion note according to
EC 270-681-9		Annex VI to the CLP Regulation: H K U	
INDEX -			
Reg. no. 01-2119486557-22-XXXX			
(R)-P-MENTHA-1,8-DIENE			
CAS 5989-27-5	15 ≤ x < 16,5	Flam. Liq. 3 H226, Skin Irrit. 2 H315, Skin Sens. 1 H31 H410 M=1, Classification note according to Annex VI to	
EC 227-813-5		C	
INDEX 601-029-00-7			
Reg. no. 01-2119529223-47-XXXX			
HYDROCARBONS, C7, N- ALCANS, ISOALKANS, CYCLES CAS			
64742-49-0	15 ≤ x < 16,5	Flam. Liq. 2 H225, Asp. Tox. 1 H304, Skin Irrit. 2 H315	, STOT SE 3 H336,
EC 927-510-4		Aquatic Chronic 2 H411	
INDEX -			
Reg. no. 01-2119475515-33-XXXX			
1,2-DICHLOROPROPANE			
CAS 78-87-5	7≤x< 8	Flam. Liq. 2 H225, Carc. 1B H350, Acute Tox. 4 H302,	Acute Tox. 4 H332
EC 201-152-2			
INDEX 602-020-00-0			
Reg. no. 01-2119557878-16-XXXX			

The full wording of hazard (H) phrases is given in section 16 of the sheet.

The product is an aerosol containing propellants. For the purposes of calculation of the health hazards, propellants are not considered (unless they have health hazards). The percentages indicated are inclusive of the propellants.

Percentage of propellants: 25,00 %

### **SECTION 4. First aid measures**

#### 4.1. Description of first aid measures

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. If problem persists, seek medical advice.

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention immediately. Wash contaminated clothing before using it again.

INHALATION: Remove to open air. If the subject stops breathing, administer artificial respiration. Get medical advice/attention immediately. INGESTION: Get medical advice/attention immediately. Do not induce vomiting. Do not administer anything not explicitly authorised by a doctor.

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

Specific information on symptoms and effects caused by the product are unknown.

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

Information not available

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## **SECTION 5. Firefighting measures**

#### 5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray. UNSUITABLE EXTINGUISHING EQUIPMENT None in particular.

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

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE If overheated, aerosol cans can deform, explode and be propelled considerable distances. Put a protective helmet on before approaching the fire. Do not breathe combustion products.

#### 5.3. Advice for firefighters

GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

## **SECTION 6.** Accidental release measures

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

Eliminate all sources of ignition (cigarettes, flames, sparks, etc.) from the leakage site. Send away individuals who are not suitably equipped. Wear protective gloves / protective clothing / eye protection / face protection.

#### 6.2. Environmental precautions

Do not disperse in the environment.

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

Use inert absorbent material to soak up leaked product. Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

#### 6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

## **SECTION 7.** Handling and storage

#### 7.1. Precautions for safe handling

Avoid bunching of electrostatic charges. Do not spray on flames or incandescent bodies. Vapours may catch fire and an explosion may occur; vapour accumulation is therefore to be avoided by leaving windows and doors open and ensuring good cross ventilation. Do not eat, drink or smoke during use. Do not breathe spray.

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

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7.3. Specific end use(s)
 Information not available
 SECTION 8. Exposure controls/personal protection
 8.1. Control parameters

Store in a place where adequate ventilation is ensured, away from direct sunlight at a temperature below 50°C / 122°F, away from any combustion

Regulatory References:

sources.

tive
n

# HYDROCARBONS C3-4 Threshold Limit Value Type Country TWA/8h STEL/15min Remarks / Observations

		mg/m3	ppm	mg/m3	ppm	000011440		
TLV-ACGIH			1000					
Health - Derived no-effect le	Evel - DNEL / D Effects on consumers	MEL			Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Skin								23,4 mg/kg bw/d
HYDROCARBONS, C7, N-A Threshold Limit Value	LCANS, ISOAL	KANS, CYCLES	;					
Туре	Country	TWA/8h		STEL/15min		Remarks / Observatio	ns	
		mg/m3	ppm	mg/m3	ppm			
OEL	EU	1400						
Health - Derived no-effect le	Effects on consumers	MEL			Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				149 mg/kg bw/d				ł
Inhalation				447 mg/m3				2085 mg/m3
Skin				149 mg/kg bw/d				300 mg/kg bw/d
(R)-P-MENTHA-1,8-DIENE								
Threshold Limit Value Type	Country	TWA/8h		STEL/15min		Remarks / Observatio	ne	
		mg/m3	ppm	mg/m3	ppm	Observatio	115	
VLA	ESP	168	30			SKIN		

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ſLV	NOR	140	25					
Predicted no-effect concentration	n - PNEC							
Normal value in fresh water				1,4	mg/	1		
Normal value in marine water				1,4	mg/	1		
Normal value for fresh water sec	liment			3,85	mg/	′kg		
Normal value for marine water s	ediment			0,385	mg/	'kg		
Normal value of STP microorgar	nisms			1,8	mg/	1		
Normal value for the food chain	(secondary poisoni	ng)		133	mg/	'kg		
Normal value for the terrestrial c	ompartment			0,763	mg/	'kg		
Health - Derived no-effect	level - DNEL / D Effects on consumers	MEL			Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Dral				4,8 mg/kg		Systemic		Systemic
nhalation				bw/d 16,6 mg/m3				66,7 mg/m3
Skin				4,8 mg/kg bw/d				9,5 mg/kg bw/d
1,2-DICHLOROPROPANE								
	Country	TWA/8h		STEL/15min		Remarks / Observatio		
		mg/m3	ppm	mg/m3	ppm	Obtorvalle		
/LA	ESP	47	10					
/LEP	FRA	350	75					
LV	NOR	185	40					
LV-ACGIH		46	10					
Predicted no-effect concentration	n - PNEC							
Normal value in fresh water				0,082	mg/	1		
Normal value in marine water				0,008	mg/	1		
Normal value for fresh water sec	liment			0,676	mg/	'kg		
Normal value for marine water s	ediment			0,068	mg/	'ng		
Normal value of STP microorgar	nisms			0,59	mg/	1		
Normal value for the terrestrial c	ompartment			0,088	mg/	′kg		
Health - Derived no-effect	level - DNEL / D Effects on consumers	MEL			Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral		2,29 mg/kg		0,52 mg/kg		.,		.,
Inhalation	28,88 mg/m3	bw/d 28,88 mg/m3		<u>bw/d</u> 14,44 mg/m3	57,75 mg/m3	57,75 mg/m3		2,88 mg/m3
Skin	0,69 mg/kg bw/d	1,03 mg/kg bw/d	0,67 mg/kg bw/d	0,52 mg/kg bw/d	1,39 mg/kg bw/d	2,07 mg/kg bw/d	1,39 mg/kg bw/d	1,03 mg/kg bw/d
gend:								
;) = CEILING ; INHAL = Ir	halable Fraction	; RESP = Res	pirable Fraction	; THORA =	Thoracic Fract	ion.		

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#### 8.2. Exposure controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.

When choosing personal protective equipment, ask your chemical substance supplier for advice. Personal protective equipment must be CE marked, showing that it complies with applicable standards.

Provide an emergency shower with face and eye wash station.

The product must be used inside a closed circuit, in a well-ventilated environment and with strong localised aspiration systems in place.

HAND PROTECTION None required.

#### SKIN PROTECTION

Wear category II professional long-sleeved overalls and safety footwear (see Regulation 2016/425 and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

#### EYE PROTECTION

Wear airtight protective goggles (see standard EN 166).

#### RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, a mask with a type AX filter combined with a type P filter should be worn (see standard EN 14387). Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

#### ENVIRONMENTAL EXPOSURE CONTROLS

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

Product residues must not be indiscriminately disposed of with waste water or by dumping in waterways.

HYDROCARBONS, C9-C11, N-ALCANS, ISOALKANS, CYCLES, <2% AROMATIC

Chemical resistant gloves are recommended. Nitrile, standards CEN EN 420 and EN 374 provide general requirements and lists of types of gloves.

HYDROCARBONS, C7, N-ALCANS, ISOALKANS, CYCLES

Chemical resistant gloves are recommended. If contact with forearms is likely, wear glove-style gloves. Nitrile, CEN EN 420 and EN 374 standards provide general requirements and lists of glove types.

(R)-P-MENTHA-1,8-DIENE

Chemical resistant protective gloves (standard EN 374-1).

1,2-DICHLOROPROPANE

Protective gloves, protective clothing, goggles, mask with approved filter. Gloves materials and specifications:

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- Viton gloves (thickness: 0.3-0.71 mm; typical breakthrough time: 480 min) or other fluoroelastomer gloves (thickness: 0.5-1.5 mm; typical breakthrough time:> 240 min);

- PVA gloves (thickness: 0.3 mm; typical breakthrough time: 360 min);

neoprene gloves (thickness: 0.75 mm; typical breakthrough time: 60-120 min);
 nitrile gloves (thickness: 0.2-0.38 mm; typical breakthrough time: 10-30 min).

## **SECTION 9.** Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

Appearance	liquid under pressure
Colour	transparent
Odour	typical
Odour threshold	Not available
pH	Not available
Melting point / freezing point	< -80 °C
Initial boiling point	> -42 °C
Boiling range	Not available
Flash point	< -100 °C
Evaporation rate	Not available
Flammability (solid, gas)	Not available
Lower inflammability limit	Not available
Upper inflammability limit	Not available
Lower explosive limit	1,8 % (V/V)
Upper explosive limit	9,5 % (V/V)
Vapour pressure	Not available
Vapour density	>2
Relative density	0,75 kg/l
Solubility	Not available
Partition coefficient: n-octanol/water	Not available
Auto-ignition temperature	400 °C
Decomposition temperature	Not available
Viscosity	Not available
Explosive properties	Not available
Oxidising properties	Not available

#### 9.2. Other information

Information not available

## **SECTION 10. Stability and reactivity**

#### 10.1. Reactivity

There are no particular risks of reaction with other substances in normal conditions of use.

#### 1,2-DICHLOROPROPANE

Decomposes on contact with: naked flames, overheated surfaces.

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#### 10.2. Chemical stability

The product is stable in normal conditions of use and storage.

#### 10.3. Possibility of hazardous reactions

No hazardous reactions are foreseeable in normal conditions of use and storage.

#### 1,2-DICHLOROPROPANE

Risk of explosion on contact with: aluminium, metal powders. May react dangerously with: alkaline metals, alkaline earth metals, sodium amides. Forms explosive mixtures with: air.

#### 10.4. Conditions to avoid

Avoid overheating.

HYDROCARBONS, C9-C11, N-ALCANS, ISOALKANS, CYCLES, <2% AROMATIC

Avoid heat, sparks, open flames and other sources of ignition.

#### HYDROCARBONS, C7, N-ALCANS, ISOALKANS, CYCLES

Avoid heat, sparks, open flames and other sources of ignition.

#### (R)-P-MENTHA-1,8-DIENE

Prolonged or excessive heat and / or exposure to air can cause non-hazardous decomposition and / or oxidation of the substance. Keep away from heat and other causes of fire.

#### 10.5. Incompatible materials

Strong reducing or oxidising agents, strong acids or alkalis, hot material.

HYDROCARBONS, C9-C11, N-ALCANS, ISOALKANS, CYCLES, <2% AROMATIC

Strong oxidants

HYDROCARBONS, C7, N-ALCANS, ISOALKANS, CYCLES

Strong oxidants.

(R)-P-MENTHA-1,8-DIENE

Avoid contact with strong acids and strong oxidizing agents.

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#### 10.6. Hazardous decomposition products

1,2-DICHLOROPROPANE

May develop: hydrochloric acid.

# **SECTION 11. Toxicological information**

#### 11.1. Information on toxicological effects

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

Information not available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Information not available

Interactive effects

Information not available

ACUTE TOXICITY

LC50 (Inhalation) of the mixture: > 20 mg/l LD50 (Oral) of the mixture: >2000 mg/kg LD50 (Dermal) of the mixture: Not classified (no significant component)

1,2-DICHLOROPROPANE

LD50 (Oral) > 2200 mg/kg Rat

LD50 (Dermal) 10100 mg/kg Rabbit

LC50 (Inhalation) 9,4 mg/l/4h

HYDROCARBONS, C9-C11, N-ALCANS, ISOALKANS, CYCLES, <2% AROMATIC

Method: OECD 423 Reliability: 2 Species: Rat (Wistar; male / female) Route of exposure: Oral Results: LD50> 15 000 mg / kg bw Method: Equivalent or similar to OECD 403 Reliability: 1

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Species: Rat (Crj: CD (SD); male / female) Route of exposure: Inhalation (vapors) Results: LC50> 4 951 mg / m³ air Method: Equivalent or similar to OECD 402 Reliability: 2 Species: Rabbit (New Zealand White; male / female) Route of exposure: Dermal Results: LD50> 5 000 mg / kg bw HYDROCARBONS C3-4 Method: Not indicated-Read Across Reliability: 2 Species: Rat (Alderley Park (SPF); male / female)	
Species: Rat (Alderley Park (SPF); male / remaie) Route of exposure: Inhalation Results: LC50 1 443 mg / L air	
HYDROCARBONS, C7, N-ALCANS, ISOALKANS, CYCLES	
Method: standard acute oral test Reliability: 2 Species: Rat (Charles River CD; male / female) Route of exposure: Oral Results: LD50> 8 mL / kg bw Method: Equivalent or similar to OECD 403 Reliability: 2 Species: Rat (Wistar; male / female) Route of exposure: Inhalation (vapors) Results: LC50> 23.3 mg / L air Method: The acute toxicity of SBP 100/140 was determined according to Noakes and Sanderson (19 pesticides, Br. J. Industr Med 26: 59-64. Reliability: 2 Species: Rat (Charles River CD; male / female) Route of exposure: Dermal Results: LD50> = 4 mL / kg bw (R)-P-MENTHA-1,8-DIENE Method: OECD 423 Reliability: 1 Species: Rat (Sprague-Dawley; female) Route of exposure: Oral Results: LD50> 2000 mg / kg bw	69): A method for determining the dermal toxicity o
SKIN CORROSION / IRRITATION	
Causes skin irritation	
HYDROCARBONS, C9-C11, N-ALCANS, ISOALKANS, CYCLES, <2% AROMATIC	
Method: Equivalent or similar to OECD 404 Reliability: 1 Species: Rabbit (New Zealand White) Route of exposure: Dermal Results: Irritating	
HYDROCARBONS, C7, N-ALCANS, ISOALKANS, CYCLES	
Method: Equivalent or similar to OECD 404 Reliability: 2	

Reliability: 2 Species: Rabbit (New Zealand White)

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Route of exposure: Dermal Results: Category 2, Irritating	

(R)-P-MENTHA-1,8-DIENE

Method: OECD 404 Reliability: 2 Species: Rabbit (albino) Route of exposure: Dermal Results: Not irritating

#### 1,2-DICHLOROPROPANE

Method: OECD 404 Reliability: 1 Species: Rabbit Route of exposure: Dermal Results: Slightly irritating

#### SERIOUS EYE DAMAGE / IRRITATION

Does not meet the classification criteria for this hazard class

HYDROCARBONS, C9-C11, N-ALCANS, ISOALKANS, CYCLES, <2% AROMATIC

Method: OECD 405 Reliability: 1 Species: Rabbit (New Zealand White) Route of exposure: Ocular Results: Not irritating

#### HYDROCARBONS, C7, N-ALCANS, ISOALKANS, CYCLES

Method: Federal Register of the F.D.A. 28 (110), 6.6.1963, para. 191.12. Test for eye irritants Reliability: 2 Species: Rabbit (New Zealand White) Route of exposure: Ocular Results: Not irritating

(R)-P-MENTHA-1,8-DIENE

Method: OECD 405 Reliability: 2 Species: Rabbit (New Zealand White) Route of exposure: Ocular Results: Not irritating

#### 1,2-DICHLOROPROPANE

Method: OECD GUIDELINES FOR TESTING OF CHEMICALS 438 Reliability: 1 Species: Chicken Route of exposure: Ocular Results: Slightly irritating

## RESPIRATORY OR SKIN SENSITISATION

Sensitising for the skin

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HYDROCARBONS, C7, N-ALCANS, ISOALKANS, CYCLES	

Method: Equivalent or similar to OECD 406 Reliability: 2 Species: guinea pig (p-strain; male / female) Route of exposure: Dermal Results: Not sensitizing

(R)-P-MENTHA-1,8-DIENE

Method: OECD 429 Reliability: 2 Species: Mouse (CBA / Ca; female) Route of exposure: Dermal Results: Sensitizers

Respiratory sensitization HYDROCARBONS, C7, N-ALCANS, ISOALKANS, CYCLES

Skin sensitization HYDROCARBONS, C9-C11, N-ALCANS, ISOALKANS, CYCLES, <2% AROMATIC

Method: OECD 406 Reliability: 2 Species: guinea pig (Hartley; female) Route of exposure: Dermal Results: Not sensitizing

1,2-DICHLOROPROPANE

Method: OECD 429 Reliability: 1 Species: Mouse (female) Route of exposure: Dermal Results: Not sensitizing

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

HYDROCARBONS, C9-C11, N-ALCANS, ISOALKANS, CYCLES, <2% AROMATIC

Method: OECD 471 in vitro test Reliability: 1 Species: S. typhimurium Results: Negative with or without metabolic activation Method: Equivalent or similar to OECD 474 in vivo test Reliability: 1 Species: Mouse (CD-1; male / female) Route of exposure: Oral Results: Negative

HYDROCARBONS C3-4

Method: OECD 474-test in vivo Reliability: 1 Species: Rat (Sprague-Dawley CD; male / female) Route of exposure: Inhalation (gas) Results: Negative

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Method: OECD 471 in vitro test - Read Across Reliability: 1 Species: S. typhimurium Results: Negative with and without metabolic activation

HYDROCARBONS, C7, N-ALCANS, ISOALKANS, CYCLES

Method: Equivalent or similar to OECD 471 Reliability: 1 Species: S. typhimurium, E. Coli Results: Negative with or without metabolic activation Bibliographic reference: Brooks, T.M. et al., The genetic toxicology of some hydrocarbon and oxygenated solvents (1988)

(R)-P-MENTHA-1,8-DIENE

Method: OECD 471 in vitro test Reliability: 1 Species: S. typhimurium Results: Negative with and without metabolic activation Bibliographic reference: Method: Comet assay (Tice et al., 2000) - in vivo test Reliability: 2 Species: Rat (OFA Sprague-Dawley; male) Route of exposure: Oral Results: Negative

1,2-DICHLOROPROPANE

Method: OECD 471 in vitro test Reliability: 1 Species: S. typhimurium Results: Negative with or without metabolic activation Method: EPA OPPTS 870.5395-in vivo test Reliability: 1 Species: Mouse (CD-1; male) Route of exposure: Oral Results: Negative

CARCINOGENICITY

Does not meet the classification criteria for this hazard class

HYDROCARBONS, C9-C11, N-ALCANS, ISOALKANS, CYCLES, <2% AROMATIC

Method: Equivalent or similar to OECD 453 Reliability: 1 Species: Rat (F344 / N; male / female) Route of exposure: Inhalation (vapors) Results: NOAEC 138 mg / m<sup>3</sup> air

HYDROCARBONS C3-4

Method: Equivalent or similar to EPA OPP 83-5 -Read Across Reliability: 1 Species: Rat (Fischer 344; male / female) Route of exposure: Oral Results: Carcinogen

(R)-P-MENTHA-1,8-DIENE

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Method: Equivalent or similar to OECD 451 Reliability: 2 Species: Mouse (B6C3F1; male / female) Route of exposure: Oral	

1,2-DICHLOROPROPANE

Results: Negative

Method: Not indicated Reliability: 1 Species: Rat (Fischer 344; male / female) Route of exposure: Oral Results: Negative Bibliographic reference: OECD SIDS 1,2-DICHLOROPROPANE (2003)

#### REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

Adverse effects on sexual function and fertility HYDROCARBONS, C9-C11, N-ALCANS, ISOALKANS, CYCLES, <2% AROMATIC

Method: OECD TG 413 Reliability: 1 Species: Rat (Fischer 344; male / female) Route of exposure: Inhalation (vapors) Results: NOAEC> = 400 ppm

HYDROCARBONS C3-4

Method: OECD 413 Reliability: 1 Species: Rat (Sprague-Dawley CD; male / female) Route of exposure: Inhalation (gas) Results: NOAEC (fertility) 10 000 ppm

HYDROCARBONS, C7, N-ALCANS, ISOALKANS, CYCLES

Method: Equivalent or similar to OECD 416 Reliability: 1 Species: Rat (Sprague-Dawley; male / female) Route of exposure: Inhalation (vapors) Results: NOAEL 9000 ppm

(R)-P-MENTHA-1,8-DIENE

Method: Equivalent or similar to OECD 408 Reliability: 2 Species: Mouse (B6C3F1; male / female) Route of exposure: Oral Results: Negative. NOAEL (fertility) = 500 mg / kg bw / day.

1,2-DICHLOROPROPANE

Method: EPA OTS 798.4700 Reliability: 1 Species: Rat (Sprague Dawley; male / female) Route of exposure: Oral Results: NOAEL 0.024 other:%

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Adverse effects on development of the offspring HYDROCARBONS C3-4

Method: EPA OPPTS 870.3700 Reliability: 1 Species: Rat (VAF / Plus®, Sprague-Dawley Derived (CD®) Crl: CD® IGS BR) Route of exposure: Inhalation (gas) Results: NOAEC (development) 10 426 ppm

HYDROCARBONS, C7, N-ALCANS, ISOALKANS, CYCLES

Method: Food and Drug Administration 1966 "Guidelines for Reproduction Studies for Safety Evaluation of Drugs for Human Use", Segment II Reliability: 2 Species: Rat (CD (SD)) Route of exposure: Inhalation (vapors) Results: NOAEC 1 200 ppm

1,2-DICHLOROPROPANE

Method: EPA OTS 798.4900 Reliability: 1 Species: Rat (Sprague Dawley) Route of exposure: Oral Results: NOAEL 30 mg / kg bw

#### STOT - SINGLE EXPOSURE

May cause drowsiness or dizziness

HYDROCARBONS, C9-C11, N-ALCANS, ISOALKANS, CYCLES, <2% AROMATIC

Based on available data and through expert judgment, the substance is classified in the target organ toxicity class for single exposure.

HYDROCARBONS C3-4

Based on available data and through expert judgment, the substance is not classified as dangerous in the target organ toxicity class for single exposure.

HYDROCARBONS, C7, N-ALCANS, ISOALKANS, CYCLES

Based on available data and through expert judgment, the substance is classified in the target organ toxicity class for single exposure.

(R)-P-MENTHA-1,8-DIENE

Based on available data and through expert judgment, the substance is not classified in the target organ toxicity class for single exposure.

#### 1,2-DICHLOROPROPANE

Based on available data and through expert judgment, the substance is not classified in the target organ toxicity class for single exposure.

Target organ HYDROCARBONS, C7, N-ALCANS, ISOALKANS, CYCLES

Central nervous system

Route of exposure HYDROCARBONS, C9-C11, N-ALCANS, ISOALKANS, CYCLES, <2% AROMATIC

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Dermal and inhalation

HYDROCARBONS, C7, N-ALCANS, ISOALKANS, CYCLES

Inhalation

#### STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

HYDROCARBONS, C9-C11, N-ALCANS, ISOALKANS, CYCLES, <2% AROMATIC

Method: Equivalent or similar to OECD 422 Reliability: 1 Species: Rat (Sprague-Dawley; male / female) Route of exposure: Oral Results: NOAEL> = 1000 mg / kg / day Method: Equivalent or similar to OECD 413 Reliability: 1 Species: Rat (Albino; male / female) Route of exposure: Inhalation (vapors) Results: NOAEC 10186 mg / m3

#### HYDROCARBONS C3-4

Method: OECD 413 Reliability: 1 Species: Rat (Sprague-Dawley CD; male / female) Route of exposure: Inhalation (gas) Results: NOAEC 10 000 ppm

HYDROCARBONS, C7, N-ALCANS, ISOALKANS, CYCLES

Method: Not indicated Reliability: 2 Species: Rat (Wistar; male) Route of exposure: Inhalation (vapors) Results: NOAEC 12 470 mg / m<sup>3</sup> air Bibliographic reference: Takeuchi, Y. et al., A comparative study of the toxicity of n-pentane, n-hexane, and n-heptane to the peripheral nerve of the rat. (1981)

(R)-P-MENTHA-1,8-DIENE

Method: Equivalent or similar to OECD 409 Reliability: 2 Species: Dog (Beagle; male / female) Route of exposure: Oral Results: Negative. NOAEL = 100 mg / kg bw / day

1,2-DICHLOROPROPANE

Method: standard NTP methodology Reliability: 1 Species: Rat (Fischer 344; male / female) Route of exposure: Oral Results: NOAEL 500 mg / kg bw / d. Bibliographic reference: Method: Not indicated Reliability: 1 Species: Mouse (B6C3F1)

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Route of exposure: Inhalation (vapors) Results: NOAEL 15 ppm

#### ASPIRATION HAZARD

Excluded because the aerosol does not allow the accumulation of a significant amount of product in the mouth

# **SECTION 12. Ecological information**

This product is dangerous for the environment and is toxic for aquatic organisms. In the long term, it have negative effects on acquatic environment. **12.1. Toxicity** 

(R)-P-MENTHA-1,8-DIENE	
LC50 - for Fish	35 mg/l/96h Oncorhynchus mykiss
EC50 - for Crustacea	69,6 mg/l/48h Daphnia pulex
HYDROCARBONS C3-4	
LC50 - for Fish	49,47 mg/l/96h
HYDROCARBONS, C7, N-ALCANS, ISOALKANS, CYCLES LC50 - for Fish	13,4 mg/l/96h
12.2. Persistence and degradability	
HYDROCARBONS C3-4 Easily degradable in water. HYDROCARBONS, C7, N-ALCANS, ISOALKANS, CYCLES Quickly degradable in water, 98% in 28 days. (R)-P-MENTHA-1,8-DIENE Rapidly degradable in water, 71.4% in 28 days.	
(R)-P-MENTHA-1,8-DIENE	
Solubility in water	0,1 - 100 mg/l
Rapidly degradable	-
1,2-DICHLOROPROPANE	
Solubility in water	1000 - 10000 mg/l
NOT rapidly degradable	
12.3. Bioaccumulative potential	
(R)-P-MENTHA-1,8-DIENE	
Partition coefficient: n-octanol/water	4,38
BCF	1022
1,2-DICHLOROPROPANE	
Partition coefficient: n-octanol/water	1,99

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#### 12.4. Mobility in soil

1,2-DICHLOROPROPANE Partition coefficient: soil/water

1,72

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

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

#### 12.6. Other adverse effects

Information not available

## **SECTION 13. Disposal considerations**

#### 13.1. Waste treatment methods

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

Waste transportation may be subject to ADR restrictions.

CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

HYDROCARBONS, C7, N-ALCANS, ISOALKANS, CYCLES

The product is suitable for combustion in a closed controlled burner for the value or disposal of the fuel by supervised incineration at very high temperatures to prevent the formation of undesirable combustion products.

#### (R)-P-MENTHA-1,8-DIENE

After a preliminary treatment, the product can be disposed of in a special waste incinerator in accordance with the rules relating to the disposal of special waste. Disposal must be carried out in accordance with local and national regulations.

## **SECTION 14. Transport information**

#### 14.1. UN number

ADR / RID, IMDG, 1950 IATA:

#### 14.2. UN proper shipping name

ADR / RID:	AEROSOLS
IMDG:	AEROSOLS
IATA:	AEROSOLS, FLAMMABLE

Class: 2

#### 14.3. Transport hazard class(es)

ADR / RID:

Label: 2.1



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IMDG:	Class: 2	Label: 2.1	*	
IATA:	Class: 2	Label: 2.1	8	
4.4. Packing gro	pup		•	
ADR / RID, IMD( IATA:	G, -			
4.5. Environmen	ntal hazards			
ADR / RID:	NO			
IMDG:	NO			
IATA:	NO			
4.6. Special pred	cautions for user			
ADR / RID:		HIN - Kemler:	Limited Quantities: 1 L	Tunnel restriction code: (D)
		Special Provision: -	L	
IMDG:		EMS: F-D, S-U	Limited Quantities: 1 I	
IATA:		Cargo:	L Maximum quantity: 150 Kg	Packaging instructions: 203
		Pass.:	Maximum quantity: 75 Kg	Packaging instructions: 203
		Special Instructions:	A145, A167, A802	

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Information not relevant

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

Seveso Category - Directive 2012/18/EC: P3a-E2

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006

Product Point	40	
Contained substance		
Point	28	1,2- DICHLOROPROPAN

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E Reg. no.: 01-2119557878-16-XXXX

Substances in Candidate List (Art. 59 REACH)

On the basis of available data, the product does not contain any SVHC in percentage greater than 0,1%.

Substances subject to authorisation (Annex XIV REACH)

None

Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012:

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

Healthcare controls

Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

#### 15.2. Chemical safety assessment

A chemical safety assessment has not been performed for the preparation/for the substances indicated in section 3.

## **SECTION 16. Other information**

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

Flam. Gas 1A	Flammable gas, category 1A
Aerosol 1	Aerosol, category 1
Aerosol 3	Aerosol, category 3
Flam. Liq. 2	Flammable liquid, category 2
Flam. Liq. 3	Flammable liquid, category 3
Press. Gas (Liq.)	Liquefied gas
Carc. 1B	Carcinogenicity, category 1B
Acute Tox. 4	Acute toxicity, category 4
Asp. Tox. 1	Aspiration hazard, category 1
Skin Irrit. 2	Skin irritation, category 2
Skin Sens. 1	Skin sensitization, category 1
STOT SE 3	Specific target organ toxicity - single exposure, category 3
Aquatic Chronic 1	Hazardous to the aquatic environment, chronic toxicity, category 1

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Aquatic Chronic 2	Hazardous to the aquatic environment, chronic toxicity, category 2
H220	Extremely flammable gas.
H222	Extremely flammable aerosol.
H229	Pressurised container: may burst if heated.
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H280	Contains gas under pressure; may burst if heated.
H350	May cause cancer.
H302	Harmful if swallowed.
H332	Harmful if inhaled.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H336	May cause drowsiness or dizziness.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
EUH066	Repeated exposure may cause skin dryness or cracking.

LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE NUMBER: Identifier in ESIS (European archive of existing substances)
- CLP: EC Regulation 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX NUMBER: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- **OEL: Occupational Exposure Level**
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: EC Regulation 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA STEL: Short-term exposure limit
- TWA: Time-weighted average exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

#### GENERAL BIBLIOGRAPHY

- 1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
- 2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
- 3. Regulation (EU) 790/2009 (I Atp. CLP) of the European Parliament
- 4. Regulation (EU) 2015/830 of the European Parliament
- 5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
- 6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament

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- 7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
- 8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament 9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
- 10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
- 11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
- 12. Regulation (EU) 2016/1179 (IX Atp. CLP)
- 13. Regulation (EU) 2017/776 (X Atp. CLP)
- 14. Regulation (EU) 2018/669 (XI Atp. CLP) 15. Regulation (EU) 2018/1480 (XII Atp. CLP)
- 16. Regulation (EU) 2019/521 (XII Atp. CLP)
- The Merck Index. 10th Edition Handling Chemical Safety
- INRS Fiche Toxicologique (toxicological sheet)
- Patty Industrial Hygiene and Toxicology
- N.I. Sax Dangerous properties of Industrial Materials-7, 1989 Edition
- IFA GESTIS website
- ECHA website

Database of SDS models for chemicals - Ministry of Health and ISS (Istituto Superiore di Sanità) - Italy

Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products.

Product's classification is based on the calculation methods set out in Annex I of the CLP Regulation, unless otherwise indicated in sections 11 and 12. The data for evaluation of chemical-physical properties are reported in section 9.