ILPA ADESIVI SRL	Revision nr. 1
	Dated 08/06/2017
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Safety data sheet

SECTION 1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Code: M8119SPR
Product name DRAI

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

Intended use Oleo-repellent for marble and granite. Professional use only.

Uses advised against: no one in particular

1.3. Details of the supplier of the safety data sheet

Name ILPA ADESIVI SRL
Full address Via Ferorelli, 4
District and Country 70132 BARI (BARI)
ITALIA

Tel. + 39 0805383837 Fax + 39 0805377807

e-mail address of the competent person

responsible for the Safety Data Sheet aborricelli@ilpa.it

1.4. Emergency telephone number

For urgent inquiries refer to + 39 3355405598 (Technical support - 8,00 - 17,00 - LUN-VEN; MON-FRI)(Italian time

zone)

Safety Executive (HSE) Chemicals Regulation Directorate 5S.1 Redgrave Court, Merton

Road, Bootle, Merseyside. L20 7HS.

Phone: +44 151 9513317

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 EC Regulation 1907/2006 and subsequent amendments. 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.
Aspiration hazard, category 1	H304	May be fatal if swallowed and enters airways.
Eye irritation, category 2	H319	Causes serious eye irritation.
Specific target organ toxicity - single exposure, category 3	H336	May cause drowsiness or dizziness.
Hazardous to the aquatic environment, chronic toxicity,	H412	Harmful to aquatic life with long lasting effects.
category 3		

2.2. Label elements

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

Hazard pictograms:





Signal words: Danger

Hazard statements:

H222 Extremely flammable aerosol.

H229 Pressurised container: may burst if heated.

H319 Causes serious eye irritation.H336 May cause drowsiness or dizziness.

H412 Harmful to aquatic life with long lasting effects.

EUH066 Repeated exposure may cause skin dryness or cracking.

Precautionary statements:

P102 Keep out of reach of children.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P211 Do not spray on an open flame or other ignition source.

P251 Do not pierce or burn, even after use.

P331 Do NOT induce vomiting.

P410+P412 Protect from sunlight. Do no expose to temperatures exceeding 50°C / 122°F.

P501 Dispose of contents / container to compliance with local regulations.

Contains: METHYL ETHYL KETONE

HYDROCARBONS, C9, AROMATICS

ETHYL ACETATE

XYLENE (MIXTURE OF ISOMERS)

Statements on the aspiration toxicity classification were not included in the label elements, based on section 1.3.3. of Annex I to CLP.

2.3. Other hazards

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

SECTION 3. Composition/information on ingredients

3.1. Substances

Information not relevant

3.2. Mixtures

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Contains:

The full wording of hazard (H) phrases is given in s Identification METHYL ETHYL KETONE	x = Conc. %	Classification 1272/2008 (CLP)
CAS 78-93-3	54 ≤ x < 58	Flam. Liq. 2 H225, Eye Irrit. 2 H319, STOT SE 3 H336,
EC 201-159-0		EUH066
INDEX 606-002-00-3		
Reg. no. 01-2119457290-43		
PROPANE		
CAS 74-98-6	19,5 ≤ x < 21	Flam. Gas 1 H220, Press.
EC 200-827-9		Gas (Liq.) H280, Note U
INDEX 601-003-00-5		
Reg. no. 01-2119486944-21		
BUTANE		
CAS 106-97-8	6 ≤ x < 7	Flam. Gas 1 H220, Press.
EC 203-448-7		Gas (Liq.) H280, Note C U
INDEX 601-004-00-0		
Reg. no. 01-2119474691-32		
ISOBUTANE		
CAS 75-28-5	6 ≤ x < 7	Flam. Gas 1 H220, Press. Gas (Lig.) H280, Note C U
EC 200-857-2		(=-4-) =
INDEX 601-004-00-0		
Reg. no. 01-2119485395-27		
HYDROCARBONS, C9, AROMATICS		
CAS -	5≤x< 6	Flam. Liq. 3 H226, Asp. Tox. 1 H304, STOT SE 3 H335, STOT SE 3 H336, Aquatic
EC 918-668-5		Chronic 2 H411, EUH066
INDEX -		
Reg. no. 01-2119455851-35		
ETHYL ACETATE		
CAS 141-78-6	2 ≤ x < 2,5	Flam. Liq. 2 H225, Eye Irrit. 2 H319, STOT SE 3 H336,
EC 205-500-4		EUH066
INDEX 607-022-00-5		
Reg. no. 01-2119475103-46		
XYLENE (MIXTURE OF ISOMERS)		
CAS 1330-20-7	1 ≤ x < 1,5	Flam. Liq. 3 H226, Acute Tox. 4 H312, Acute Tox. 4 H332, Asp. Tox. 1 H304, STOT RE 2 H373, Eye Irrit. 2 H319, Skin Irrit. 2 H315, STOT SE 3 H335, Note C
EC 215-535-7		1.500, 11010 0

INDEX 601-022-00-9 Reg. no. 01-2119488216-32

ETHYL SILICATE

CAS 78-10-4

 $0 \le x < 0.05$

Flam. Liq. 3 H226, Acute Tox. 4 H332, Eye Irrit. 2 H319, STOT SE 3 H335

EC 201-083-8 INDEX 014-005-00-0 Reg. no. 01-2119496195-28

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: 34,00 %

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.

PROTECTIVE MEASURES FOR THE FIRST RESCUE WORKERS: for PPE (personal protection equipment) required for first aid refer to section 8.2 of this safety data sheet.

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

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.

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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

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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

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 sources.

7.3. Specific end use(s)

No use other than specified in Section 1.2 of this safety data sheet.

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Regulatory References:

DEU	Deutschland	MAK-und BAT-Werte-Liste 2012
ESP	España	INSHT - Límites de exposición profesional para agentes químicos en
		España 2015
FRA	France	JORF n°0109 du 10 mai 2012 page 8773 texte n° 102
GBR	United Kingdom	EH40/2005 Workplace exposure limits
ITA	Italia	Decreto Legislativo 9 Aprile 2008, n.81
NLD	Nederland	Databank of the social and Economic Concil of Netherlands (SER) Values, AF 2011:18
EU	OEL EU	Directive (EU) 2017/164; Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive 2000/39/EC; Directive 91/322/EEC.
	TLV-ACGIH	ACGIH 2016

METHYL ETHYL KETONE							
Threshold Limit Value Type	Country	TW A/8h		STEL/15min			
		mg/m3	ppm	mg/m3	ppm		
AGW	DEU	600	200	600	200	SKIN	
MAK	DEU	600	200	600	200	SKIN	
VLA	ESP	600	200	900	300		
VLEP	FRA	600	200	900	300	SKIN	
WEL	GBR	600	200	899	300	SKIN	
VLEP	ITA	600	200	900	300		
OEL	EU	600	200	900	300		
TLV-ACGIH		590	200	885	300		
Predicted no-effect concentration	n - PNEC						
Normal value in fresh water				55,8		mg/l	

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Normal column Normal colu		N.	18119SPR -	DRAI				Printed on 08/06/2017	
Normal value for fresh water sedemand mark 1965		•••	10110 0 110	D 1(7()				Page n. 7/20	
Route of exposure	Normal value for fresh water sedin Normal value for marine water se Normal value for water, intermitte Normal value of STP microorganis Normal value for the food chain (s Normal value for the terrestrial co	diment nt release sms econdary poisoni mpartment			284,74 284,74 55,8 709 1000			mg/kg/d mg/kg/d mg/l mg/l mg/kg	
Route of exposure Acute local Acute systemic Chronic local Chronic local Systemic Sys	Health - Derived no-effect le	Effects on	MEL						
No.	Route of exposure		Acute systemic	Chronic local					
Inhibitation	Oral			VND	31 mg/kg		systemic	j	systemic
PROPANE	Inhalation			VND				VND	600 mg/m3
PROPANE	Skin			VND				VND	1161 mg/kg bw/d
Type	DD OD A NE								
Mg/m3 ppm	Threshold Limit Value								
ACIVA DEU	Гуре	Country							
MAK									
Route of exposure		-							
Chronic local Chronic loca	MAK	DEU	1800	1000	7200	4000			
Route of exposure	TLV-ACGIH			1000					
Acute local Acute local Acute systemic Chronic local Chronic local Chronic systemic S	Health - Derived no-effect le	Effects on	MEL						
NND	Route of exposure		Acute systemic	Chronic local					
Skin	Oral		VND		VND		·		
Threshold Limit Value Type Country TWA/8h STEL/15min AGW DEU 2400 1000 9600 4000 MAK DEU 2400 1000 9600 4000 VLA ESP 800 9600 4000 VLEP FRA 1900 800 970 750 OEL NLD 1430 970 1000									
Type Country mg/m3 FWA/8h mg/m3 STEL/15min mg/m3 ppm AGW DEU 2400 1000 9600 4000 MAK DEU 2400 1000 9600 4000 VLA ESP 800 4000 WEL GBR 1450 600 1810 750 OEL NLD 1430 2377 1000 BUTANE Threshold Limit Value Type Country TWA/8h STEL/15min mg/m3 ppm mg/m3 ppm AGW DEU 2400 1000 9600 4000 MAK DEU 2400 1000 9600 4000 VLA ESP 800 4000 VLEP FRA 1900 800 4000 WEL GBR 1450 600 1810 750 OEL NLD 1430 1430 1430 1430 1430	ISOBUTANE								
Mg/m3 ppm		Country	T\// ^ /0h		CTEL /1Emin				
AGW DEU 2400 1000 9600 4000 MAK DEU 2400 1000 9600 4000 VLA ESP 800 VLEP FRA 1900 800 WEL GBR 1450 600 1810 750 OEL NLD 1430 BUTANE Threshold Limit Value Type Country TWA/8h STEL/15min mg/m3 ppm mg/m3 ppm AGW DEU 2400 1000 9600 4000 MAK DEU 2400 1000 9600 4000 MAK DEU 2400 1000 9600 4000 MAK DEU 2400 1000 9600 4000 VLA ESP 800 VLEP FRA 1900 800 WEL GBR 1450 600 1810 750 OEL NLD 1430	i ype	Country		nnm		nnm			
MAK DEU 2400 1000 9600 4000 VLA ESP 800	A C1A/	DELL	· ·	' '					
VLA ESP 800 VLEP FRA 1900 800 WEL GBR 1450 600 1810 750 OEL NLD 1430 2377 1000 BUTANE Threshold Limit Value Type Country TWA/8h STEL/15min STEL/15min Type Mg/m3 ppm mg/m3 ppm AGW DEU 2400 1000 9600 4000 MAK DEU 2400 1000 9600 4000 VLA ESP 800 VLEP FRA 1900 800 FRA 1900 800 WEL GBR 1450 600 1810 750 OEL NLD 1430 1810 750									
VLEP FRA 1900 800 WEL GBR 1450 600 1810 750 OEL NLD 1430 2377 1000 BUTANE Threshold Limit Value Type Country TWA/8h STEL/15min mg/m3 ppm mg/m3 ppm AGW DEU 2400 1000 9600 4000 MAK DEU 2400 1000 9600 4000 VLA ESP 800 VLEP FRA 1900 800 WEL GBR 1450 600 1810 750 OEL NLD 1430 1430 1810 750			2400		9000	4000			
WEL GBR 1450 600 1810 750 OEL NLD 1430 2377 1000 BUTANE Threshold Limit Value Type Country TWA/8h STEL/15min Type DEU 2400 1000 9600 4000 AGW DEU 2400 1000 9600 4000 MAK DEU 2400 1000 9600 4000 VLA ESP 800 4000 VLEP FRA 1900 800 750 WEL GBR 1450 600 1810 750 OEL NLD 1430 1430 1810 750			1000						
OEL NLD 1430 TLV-ACGIH 2377 1000 BUTANE Threshold Limit Value Type Country TWA/8h STEL/15min STEL/15min AGW DEU 2400 1000 9600 4000 MAK DEU 2400 1000 9600 4000 VLA ESP 800 4000 VLEP FRA 1900 800 WEL GBR 1450 600 1810 750 OEL NLD 1430 *** *** ***					4040	750			
TLV-ACGIH 2377 1000 BUTANE Threshold Limit Value Type Country TWA/8h STEL/15min AGW DEU 2400 1000 9600 4000 MAK DEU 2400 1000 9600 4000 VLA ESP 800 4000 WEL GBR 1450 600 1810 750 OEL NLD 1430 1430 1430 1430 1430 1430				рпп	1810	/50			
BUTANE Threshold Limit Value Type Country TWA/8h STEL/15min AGW DEU 2400 1000 9600 4000 MAK DEU 2400 1000 9600 4000 VLA ESP 800 VLEP FRA 1900 800 WEL GBR 1450 600 1810 750 OEL NLD 1430 1430 1430		NLU	1430		0077	4000			
Threshold Limit Value Type Country TW A/8h STEL/15min rg/m3 ppm mg/m3 ppm AGW DEU 2400 1000 9600 4000 MAK DEU 2400 1000 9600 4000 VLA ESP 800 4000 VLEP FRA 1900 800 WEL GBR 1450 600 1810 750 OEL NLD 1430 1430 1430 1430	I LV-ACGIH				23//	1000			
Type Country TW A/8h STEL/15min AGW DEU 2400 1000 9600 4000 MAK DEU 2400 1000 9600 4000 VLA ESP 800 4000 WEL GBR 1450 600 1810 750 OEL NLD 1430 1430 1430 1430 1430 1430									
Mg/m3 ppm mg/m3 ppm AGW DEU 2400 1000 9600 4000 MAK DEU 2400 1000 9600 4000 VLA ESP 800 800 VLEP FRA 1900 800 WEL GBR 1450 600 1810 750 OEL NLD 1430 1430 1430 1430		Country	TW A/8h		STEL/15min				
AGW DEU 2400 1000 9600 4000 MAK DEU 2400 1000 9600 4000 VLA ESP 800 VLEP FRA 1900 800 WEL GBR 1450 600 1810 750 OEL NLD 1430				ppm		ppm			
MAK DEU 2400 1000 9600 4000 VLA ESP 800 VLEP FRA 1900 800 WEL GBR 1450 600 1810 750 OEL NLD 1430	AGW	DEU							
VLA ESP 800 VLEP FRA 1900 800 WEL GBR 1450 600 1810 750 OEL NLD 1430 1430 1430									
VLEP FRA 1900 800 WEL GBR 1450 600 1810 750 OEL NLD 1430 1430 1430			•		-				
WEL GBR 1450 600 1810 750 OEL NLD 1430			1900						
OEL NLD 1430					1810	750			
						. 00			
2377 1000		1120	1 100			4000			
					2377	1000			

Revision nr. 1 ILPA ADESIVI SRL Dated 08/06/2017 Printed on 08/06/2017 M8119SPR - DRAI Page n. 8/20 Health - Derived no-effect level - DNEL / DMEL Effects on Effects on consumers workers Route of exposure Acute local Acute systemic Chronic local Chronic Acute local Acute Chronic local Chronic systemic VND systemic systemic Oral VND Inhalation VND Skin HYDROCARBONS, C9, AROMATICS Health - Derived no-effect level - DNEL / DMEL Effects on Effects on workers consumers Acute local Acute local Route of exposure Chronic local Chronic Acute Chronic local Chronic Acute systemic systemic systemic systemic Oral VND 11 mg/kg bw/d VND VND Inhalation 32 mg/m3 150 mg/m3 Skin VND 11 mg/kg VND 25 mg/kg bw/d bw/d **ETHYL ACETATE Threshold Limit Value** STEL/15min Туре Country TW A/8h mg/m3 mg/m3 ppm ppm AGW DEU 1500 400 3000 800 MAK DEU 1500 400 3000 800 ESP 1460 VLA 400 VLEP FRA 1400 400 WEL **GBR** 200 400 OEL NLD 550 1100 OEL ΕU 734 200 1468 400 TLV-ACGIH 1441 400 Predicted no-effect concentration - PNEC Normal value in fresh water 0,24 mg/l Normal value in marine water 0,024 mg/l 1,15 0,115 Normal value for fresh water sediment mg/kg/d Normal value for marine water sediment mg/kg/d Normal value for water, intermittent release 1.65 mg/l Normal value of STP microorganisms 650 mg/l Normal value for the food chain (secondary poisoning) mg/kg 200 Normal value for the terrestrial compartment 0,148 mg/kg/d Normal value for the atmosphere ΝPΙ Health - Derived no-effect level - DNEL / DMEL Effects on Effects on consumers workers Route of exposure Acute local Acute systemic Chronic local Chronic Acute local Acute Chronic local Chronic systemic systemic systemic VND Oral 4,5 mg/kg bw/d 367 mg/m3 367 mg/m3 Inhalation 734 mg/m3 1468 mg/m3 734 mg/m3 734 mg/m3 1468 mg/m3 734 mg/m3 63 mg/kg VND 37 mg/kg VND Skin bw/d bw/d YVI ENE (MIYTUDE OF ISOMEDS)

Threshold Limit Value	JIVIEKS)						
Туре	Country	TW A/8h		STEL/15min			
		mg/m3	ppm	mg/m3	ppm		
AGW	DEU	440	100	880	200	SKIN	
MAK	DEU	440	100	880	200	SKIN	
VLA	ESP	221	50	442	100	SKIN	

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VLEP	FRA	221	50	442	100	SKIN		
WEL	GBR	220	50	441	100			
VLEP	ITA	221	50	442	100	SKIN		
OEL	NLD	210		442		SKIN		
OEL	EU	221	50	442	100	SKIN		
TLV-ACGIH		434	100	651	150			
Predicted no-effect concentration	on - PNEC							
Normal value in fresh water Normal value in marine water Normal value for fresh water se Normal value for marine water s Normal value for water, intermit Normal value of STP microorga Normal value for the terrestrial o	sediment tent release nisms compartment			0,327 0,327 12,46 12,46 0,327 6,58 2,31		mg/l mg/l mg/k mg/l mg/l mg/l	sg/d sg/d	
Health - Derived no-effect	level - DNEL / D	DMEL			Effects on			
Route of exposure	consumers Acute local	Acute systemic	Chronic local	Chronic systemic	workers Acute local	Acute systemic	Chronic local	Chronic systemic
Oral			VND	1,6 mg/kg		Systemic		Systemic
Inhalation Skin	174 mg/m3	174 mg/m3	VND VND	bw/d 14,8 mg/m3 108 mg/kg bw/d	289 mg/m3	289 mg/m3	VND VND	77 mg/m3 180 mg/kg bw/d
ETHYL SILICATE								
Threshold Limit Value Type	Country	TW A/8h		STEL/15min				
71		mg/m3	ppm	mg/m3	ppm			
AGW	DEU	12	1,4	12	1,4			
MAK	DEU	86	10	86	10			
/LA	ESP	87	10					
VLEP	FRA	85	10					
DEL .	NLD	10	.0					
DEL	EU	44	5					
TLV-ACGIH	20	85	10					
Predicted no-effect concentration	nn - DNFC		10					
Normal value in fresh water	on - FINEC			0,19		mg/l		
Normal value in marine water Normal value for fresh water se Normal value for marine water se Normal value for water, intermit Normal value of STP microorga Normal value for the terrestrial of Health - Derived no-effect	sediment tent release nisms compartment	DMEL		0,019 0,83 0,083 10 4000 0,05		mg/l mg/k mg/k mg/l mg/k	sg/d sg/d	
	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral	VND	NPI	VND	NPI		Systemic		ayalen 110
nhalation Skin	14 mg/m3 NPI	14 mg/m3 3 mg/kg bw/d	14 mg/m3 NPI	14 mg/m3 3 mg/kg bw/d	85 mg/m3 NPI	85 mg/m3 56 mg/kg bw/d	85 mg/m3 NPI	85 mg/m3 56 mg/kg bw/d
egend:								
e) = CEILING ; INHAL = II	nhalable Fraction	n ; RESP = Res	pirable Fraction	; THORA =	Thoracic Frac	etion.		

VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified.

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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.

HAND PROTECTION

None required.

SKIN PROTECTION

Wear category I professional long-sleeved overalls and safety footwear (see Directive 89/686/EEC 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 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.

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance aerosol transparent Colour Odour aromatic

Odour threshold 10 ppm, (METHYL ETHYL KETONE)

Not applicable

Melting point / freezing point -86°C (NIOSH) (METHYL ETHYL KETONE)

Initial boiling point > 35 °C. Boiling range Not applicable Flash point

4.60 (N-butyl ACETATE=1, PPG TRUEFINISH) (METHYL ETHYL KETONE). Evaporation rate

Flammability (solid, gas) gas inflamable (PROPANE, 0319 ICSC)

Lower inflammability limit Not available Upper inflammability limit Not available

2,1 Vol% (PROPANE, 0319 ICSC) 9,5 Vol% (PROPANE, 0319 ICSC) Lower explosive limit Upper explosive limit

Vapour pressure 10,5 kPa (T=20°C) (NIOSH) (METHYL ETHYL KETONE) Vapour density 2,41 (air=1) (NIOSH) (METHYL ETHYL KETONE)

Relative density 0,80 Kg/I Solubility insoluble in water

Partition coefficient: n-octanol/water 0,29 log Pow (NIOSH) (METHYL ETHYL KETONE) Auto-ignition temperature 505°C (NIOSH) (METHYL ETHYL KETONE)

Not applicable Decomposition temperature

Viscosity 0,4 mPas (dynamic, T=25°C) (METHYL ETHYL KETONE)

Explosive properties Not applicable

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Oxidising properties Not applicable

9.2. Other information

VOC (Directive 2010/75/EC): 99,15 % - 793,18 g/litre

SECTION 10. Stability and reactivity

10.1. Reactivity

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

METHYL ETHYL KETONE

Reacts with: light metals, strong oxidants. Attacks various types of plastic materials. Decomposes under the effect of heat.

ETHYL ACETATE

Decomposes slowly into acetic acid and ethanol under the effect of light, air and water.

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.

METHYL ETHYL KETONE

May form peroxides with: air,light,strong oxidising agents.Risk of explosion on contact with: hydrogen peroxide,nitric acid,sulphuric acid.May react dangerously with: oxidising agents,trichloromethane,alkalis.Forms explosive mixtures with: air.

ETHYL ACETATE

Risk of explosion on contact with: alkaline metals,hydrides,oleum.May react violently with: fluorine,strong oxidising agents,chlorosulphuric acid,potassium tert-butoxide.Forms explosive mixtures with: air.

XYLENE (MIXTURE OF ISOMERS)

Stable in normal conditions of use and storage. Reacts violently with: strong oxidants, strong acids, nitric acid, perchlorates. May form explosive mixtures with: air.

10.4. Conditions to avoid

Avoid overheating.

METHYL ETHYL KETONE

Avoid exposure to: sources of heat.

ETHYL ACETATE

Avoid exposure to: light, sources of heat, naked flames.

10.5. Incompatible materials

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

METHYL ETHYL KETONE

Incompatible with: strong oxidants, inorganic acids, ammonia, copper, chloroform.

ETHYL ACETATE

Incompatible with: acids,bases,strong oxidants,aluminium,nitrates,chlorosulphuric acid.Incompatible materials: plastic materials.

10.6. Hazardous decomposition products

Information not available

SECTION 11. Toxicological information

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification.

It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

11.1. Information on toxicological effects

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

XYLENE (MIXTURE OF ISOMERS)

WORKERS: inhalation; contact with the skin.

POPULATION: ingestion of contaminated food or water; inhalation of ambient air.

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

XYLÈNE (MIXTURE OF ISOMERS)

Toxic effect on the central nervous system (encephalopathy); irritating for the skin, conjunctiva, cornea and respiratory apparatus.

Interactive effects

XYLENE (MIXTURE OF ISOMERS)

Intake of alcohol interferes with the metabolism of the substance, inhibiting it. Ethanol consumption (0.8 g/kg) before a 4-hour exposure to xylene vapours (145 and 280 ppm) causes a 50% reduction in the excretion of methyl hippuric acid, whereas the concentration of xylenes in the blood increases approx. 1.5-2 times. At the same time there is an increase in the secondary side effects of the ethanol. The metabolism of the xylenes is increased by phenobarbital and 3-methyl-colantrene type enzyme inducers. Aspirin and xylenes mutually inhibit their conjugation with the glycine, which results in a decrease in urinary excretion of methyl hippuric acid. Other industrial products can interfere with the metabolism of xylenes.

ACUTE TOXICITY

LC50 (Inhalation) of the mixture:> 20 mg/l

LD50 (Oral) of the mixture:Not classified (no significant component)

LD50 (Dermal) of the mixture:>2000 mg/kg

ETHYL SILICATE

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> 2500 mg/kg rat, according to (OECD Guideline 423)

LD50 (Oral)

10 mg/l/1h male rats, according to (OECD Guideline 403)

LC50 (Inhalation)

XYLENE (MIXTURE OF ISOMERS)

3523 mg/kg Rat (equivalent or similar to EU Method B.1)

LD50 (Oral)

4200 mg/kg Rabbit (Industrial Medicine 39, 215-200, 1970)

LD50 (Dermal)

26 mg/l/4h Rat(equivalent or similar to EU Method B.2)

LC50 (Inhalation)

METHYL ETHYL KETONE

2193 mg/kg Rat (read-across from supporting substance, Equivalent or similar to OECD Guideline 423)

LD50 (Oral)

6480 mg/kg Rabbit (Shell Chemical Company. Vol. MSDS-5390-4)

LD50 (Dermal)

5000 ppm Rat (Rif. SDS Brenntag)

LC50 (Inhalation)

ETHYL ACETATE

4934 mg/kg Rabbit (Equivalent to OECD 401)

LD50 (Oral)

20000 mg/kg Rabbit (Publication Am Ind Hyg Ass J, 23, 95)

LD50 (Dermal)

22,5 mg/l/6h Rat (40 CFR Part 799 (58 FR 40262))

LC50 (Inhalation)

HYDROCARBONS, C9, AROMATICS

3492 mg/kg Rat (Study report ECHA)

LD50 (Oral)

3160 mg/kg Rabbit (Equivalent or similar to OECD Guideline 402)

LD50 (Dermal)

6193 ppm/4h Rat (Equivalent or similar to OECD Guideline 403, GLP)

LC50 (Inhalation)

SKIN CORROSION / IRRITATION

Repeated exposure may cause skin dryness or cracking. Does not meet the classification criteria for this hazard class

SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye irritation

RESPIRATORY ÓR SKIN SENSITISATION

Does not meet the classification criteria for this hazard class

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

CARCINOGENICITY

Does not meet the classification criteria for this hazard class

XYLENE (MIXTURE OF ISOMERS)

Classified in Group 3 (not classifiable as a human carcinogen) by the International Agency for Research on Cancer (IARC).

The US Environmental Protection Agency (EPA) affirms that "the data is inadequate for an assessment of the carcinogenic potential".

REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

STOT - SINGLE EXPOSURE

May cause drowsiness or dizziness

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

ASPIRATION HAZARD

Toxic for aspiration

SECTION 12. Ecological information

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

12.1. Toxicity

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ETHYL SILICATE

LC50 - for Fish > 245 mg/l/96h Danio rerio, according to (EU Method C.1) EC50 - for Crustacea > 75 mg/l/48h Daphnia magna, according to (OECD Guideline 202)

EC50 - for Algae / Aquatic > 22 mg/l/72h Pseudokirchnerella subcapitata, according to (OECD Guideline 201)

Plants

Chronic NOEC for Fish > 245 mg/l Danio rerio, according to (EU Method C.1)

XYLENE (MIXTURE OF

ISOMERS)

LC50 - for Fish 2,6 mg/l/96h Oncorhynchus mykiss (OECD TG 203)

Chronic NOEC for Fish 1,3 mg/l 56d Oncorhynchus mykiss (Appl. Sci. Branch, Eng. Res. Cent. Denver, CO: 15p.) Chronic NOEC for Crustacea 1,17 mg/l 7d Ceriodaphnia dubia (Ecotoxicology and Environmental Safety 39, 136-146)

BUTANE

24,11 mg/l/96h TGD guidline LC50 - for Fish

EC50 - for Crustacea 14,22 mg/l/48h Calculation using ECOSAR

PROPANE

LC50 - for Fish 2411 mg/l/96h TGD guidline

EC50 - for Crustacea 1422 mg/l/48h Calculation using ECOSAR

METHYL ETHYL KETONE

LC50 - for Fish 2993 mg/l/96h Pimephales promelas (OECD Guideline 203, GLP) EC50 - for Crustacea 308 mg/l/48h Daphnia magna (OECD Guideline 202, GLP)

EC50 - for Algae / Aquatic 1972 mg/l/72h Selenastrum capricornutum (OECD Guideline 201, GLP)

Plants

ETHYL ACETATE

LC50 - for Fish 230 mg/l/96h Pimephales promelas (US EPA method E03-05)

165 mg/l/48h Dapnia (Rif. SDS fornitore) EC50 - for Crustacea

Chronic NOEC for Crustacea 100 mg/l Scenedesmus subspicatus (OECD Guideline 201, GLP)

HYDROCARBONS, C9,

AROMATICS

LC50 - for Fish 9,2 mg/l/96h Oncorhynchus mykiss (OECD Guideline 203, GLP) EC50 - for Crustacea 3,2 mg/l/48h Daphnia magna (OECD Guideline 202, GLP)

2,6 mg/l/72h Raphidocelis subcapitata (OECD Guideline 201, GLP) EC50 - for Algae / Aquatic

Plants

ISOBUTANE

LC50 - for Fish 24,11 mg/l/96h TGD guidline

EC50 - for Crustacea 14,22 mg/l/48h Calculation using ECOSAR

12.2. Persistence and degradability

ETHYL SILICATE

Solubility in water 1000 - 10000 mg/l

Rapidly biodegradable

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XYLENE (MIXTURE OF

ISOMERS)

Solubility in water 100 - 1000 Handbook of aqueous solubility data. mg/l

Rapidly biodegradable

OECD Guideline 301 F, GLP

BUTANE

Solubility in water 0,1 - 100 mg/l

Rapidly biodegradable

PROPANE

Solubility in water 0,1 - 100 mg/l

Rapidly biodegradable

METHYL ETHYL KETONE

Solubility in water > 10000 mg/l

Rapidly biodegradable

(OECD Guideline 301 D, GLP)

ETHYL ACETATE

Solubility in water > 10000 mg/l

Rapidly biodegradable

(Publication JWPCF 46(1), p63-77)

HYDROCARBONS, C9, AROMATICS Rapidly biodegradable

Biodegradazione 78% in 28 d (OECD Guideline 301 F)

ISOBUTANE

Solubility in water 0,1 - 100 mg/l

Rapidly biodegradable

12.3. Bioaccumulative potential

ETHYL SILICATE

Partition coefficient: n- 3,18

octanol/water BCF

3,16

XYLENE (MIXTURE OF

ISOMERS)

Partition coefficient: n-

3,12 American Chemical Society, Washington DC

octanol/water BCF

25,9 Appl. Sci. Branch, Eng. Res. Cent. Denver, CO: 15p.

BUTANE

Partition coefficient: n- 1,09

octanol/water

PROPANE

Partition coefficient: n- 1,09

octanol/water

METHYL ETHYL KETONE

Partition coefficient: n- 0,3

octanol/water

ETHYL ACETATE

Partition coefficient: n- 0,68

octanol/water

BCF 30

ISOBUTANE

Partition coefficient: n- 1,09

octanol/water

12.4. Mobility in soil

XYLENE (MIXTURE OF

ISOMERS)

Partition coefficient: 2,73 equivalent or similar to OECD Guideline 121

soil/water

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.

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SECTION 14. Transport information

14.1. UN number

ADR / RID, IMDG,

1950

IATA:

14.2. UN proper shipping name

ADR / RID:

AEROSOLS

IMDG:

AEROSOLS (Contens: butane, propane, methyl ethyl ketone, ethyl acetate) MIXTURE

IATA:

AEROSOLS, FLAMMABLE (Contens: butane, propane, methyl ethyl ketone, ethyl acetate) MIXTURE

14.3. Transport hazard class(es)

ADR / RID:

Class: 2

Label: 2.1

IMDG:

Class: 2

Label: 2.1

IATA:

Class: 2

Label: 2.1



14.4. Packing group

ADR / RID, IMDG,

IATA:

14.5. Environmental hazards

ADR / RID:

Environmentally

Hazardous

IMDG:

Marine Pollutant

IATA:

NO



For Air transport, environmentally hazardous mark is only mandatory for UN 3077 and UN 3082.

14.6. Special precautions for user

ADR / RID:

IMDG:

HIN - Kemler: --

Limited Quantities: 1 L

Tunnel restriction code: (D)

Special Provision: -

EMS: F-D, S-U

Limited Quantities: 1 L

IATA: Cargo:

Maximum quantity: 150 Kg

Packaging instructions: 203
Packaging instructions: 203

Pass.:

Maximum quantity: 75 Kg

Special Instructions: A145, A167, A802

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

Information not relevant

SECTION 15. Regulatory information

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

Seveso Category - Directive 2012/18/EC: P3a FLAMMABLE AEROSOLS

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

Product

Point

40. Substances classified as flammable gases category 1 or 2, flammable liquids categories 1, 2 or 3, flammable solids category 1 or 2, substances and mixtures which, in contact with water, emit flammable gases, category 1, 2 or 3, pyrophoric liquids category 1 or pyrophoric solids category 1, regardless of whether they appear in Part 3 of Annex VI to that Regulation or not.

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 authorisarion (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 been performed for the following contained substances

METHYL ETHYL KETONE

HYDROCARBONS, C9, AROMATICS

ETHYL ACETATE

SECTION 16. Other information

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

Flam. Gas 1 Flammable gas, category 1

Aerosol 1 Aerosol, category 1
Aerosol, category 3

Flam. Liq. 2 Flammable liquid, category 2
Flam. Liq. 3 Flammable liquid, category 3

Press. Gas (Liq.) Liquefied gas

Acute Tox. 4 Acute toxicity, category 4
Asp. Tox. 1 Aspiration hazard, category 1

STOT RE 2 Specific target organ toxicity - repeated exposure, category 2

Eye Irrit. 2 Eye irritation, category 2
Skin Irrit. 2 Skin irritation, category 2

STOT SE 3 Specific target organ toxicity - single exposure, category 3

Aquatic Chronic 2 Hazardous to the aquatic environment, chronic toxicity, category 2

Aquatic Chronic 3 Hazardous to the aquatic environment, chronic toxicity, category 3

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.

H312 Harmful in contact with skin.

H332 Harmful if inhaled.

H304 May be fatal if swallowed and enters airways.

H373 May cause damage to organs through prolonged or repeated exposure.

H319 Causes serious eye irritation.

H315 Causes skin irritation.

H335 May cause respiratory irritation.H336 May cause drowsiness or dizziness.

H411 Toxic to aquatic life with long lasting effects.H412 Harmful 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%

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- 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 (EU) 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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- 11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
- 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

Istituto Superiore di Sanità (ISS) - Archivio Preparati Pericolosi

Codice azienda: IT00465900728 Ragione sociale: Ilpa Adesivi Srl Nome prodotto ISS: DRAI Codice prodotto ISS: M8119SPR

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.

Training for workers:

Worker training should include content, updates and duration depending on the risk profiles assigned to the business sectors they belong

Classification according to Regulation (EC) Nr. 1272/2008

Flam. Gas 1, H222

Recipiente sotto pressione: può scoppiare se riscaldato, H229

Eye Irrit. 2, H319 **STOT SE 3, H336** Aquatic Chronic 3, H412

Classification procedure

Calculation method Calculation method Calculation method Calculation method Calculation method