



ILPA ADESIVI SRL

Revision nr. 2

Dated 05/10/2021

Printed on 05/10/2021

Page n. 1/25

Replaced revision:1 (Printed on: 04/03/2016)

**M8119 - DRAI - IMPERMIABILIZZANTE PER  
MANUFATTI**

## Safety Data Sheet

According to Annex II to REACH - Regulation 2015/830

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

#### 1.1. Product identifier

Code: **M8119**  
Product name: **DRAI - IMPERMIABILIZZANTE PER MANUFATTI**

#### 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 related to substances:

Identified Uses	Industrial	Professional	Consumer
METHYLETHYLKETONE	-	ERC: 8a, 8d. PROC: 1, 10, 11, 13, 15, 19, 2, 3, 4, 5, 8a, 8b.	ERC: 8a, 8d. PC: 1, 15, 18, 23, 24, 31, 34, 4, 8, 9a, 9b.

Uses advised against: none 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: **laboratorio@ilpa.it**

#### 1.4. Emergency telephone number

For urgent inquiries refer to: **+ 39 0808974667 (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



**M8119 - DRAI - IMPERMIABILIZZANTE PER  
MANUFATTI**

Product not intended for uses provided for by Dir. 2004/42/CE.

**2.3. Other hazards**

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

**SECTION 3. Composition/information on ingredients****3.2. Mixtures**

Contains:

Identification	x = Conc. %	Classification 1272/2008 (CLP)
<b>METHYL ETHYL KETONE</b>		
CAS 78-93-3	$82 \leq x < 86$	Flam. Liq. 2 H225, Eye Irrit. 2 H319, STOT SE 3 H336, EUH066
EC 201-159-0		
INDEX 606-002-00-3		
Reg. no. 01-2119457290-43		
<b>HYDROCARBONS, C9, AROMATICS</b>		
CAS -	$8 \leq x < 9$	Flam. Liq. 3 H226, Asp. Tox. 1 H304, STOT SE 3 H335, STOT SE 3 H336, Aquatic Chronic 2 H411, EUH066
EC 918-668-5		
INDEX -		
Reg. no. 01-2119455851-35		
<b>ETHYL ACETATE</b>		
CAS 141-78-6	$2 \leq x < 2,5$	Flam. Liq. 2 H225, Eye Irrit. 2 H319, STOT SE 3 H336, EUH066
EC 205-500-4		
INDEX 607-022-00-5		
Reg. no. 01-2119475103-46		
<b>XYLENE (MIXTURE OF ISOMERS)</b>		
CAS 1330-20-7	$1 \leq x < 1,5$	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, Classification note/notes according to Annex VI to the CLP Regulation: C
EC 215-535-7		
INDEX 601-022-00-9		
Reg. no. 01-2119488216-32		
<b>N-BUTYL ACETATE</b>		
CAS 123-86-4	$1 \leq x < 1,5$	Flam. Liq. 3 H226, STOT SE 3 H336, EUH066
EC 204-658-1		
INDEX 607-025-00-1		
Reg. no. 01-2119485493-29		
<b>ETHYL SILICATE</b>		
CAS 78-10-4	$0,05 \leq x < 0,1$	Flam. Liq. 3 H226, Acute Tox. 4 H332, Eye Irrit. 2 H319, STOT SE 3 H335
EC 201-083-8		



ILPA ADESIVI SRL

Revision nr. 2

Dated 05/10/2021

Printed on 05/10/2021

Page n. 4/25

Replaced revision:1 (Printed on: 04/03/2016)

**M8119 - DRAI - IMPERMIABILIZZANTE PER  
MANUFATTI**

INDEX 014-005-00-0

Reg. no. 01-2119496195-28

**TITANIUM TETRABUTANOLATE**

CAS 5593-70-4

$0,05 \leq x < 0,1$

Flam. Liq. 3 H226, Eye Dam. 1 H318, Skin Irrit. 2 H315, STOT SE 3 H335,  
STOT SE 3 H336

EC 227-006-8

INDEX -

Reg. no. 01-2119967423-33

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

## 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

Extinguishing substances are: carbon dioxide, foam, chemical powder. For product loss or leakage that has not caught fire, water spray can be used to disperse flammable vapours and protect those trying to stem the leak.

#### UNSUITABLE EXTINGUISHING EQUIPMENT

Do not use jets of water. Water is not effective for putting out fires but can be used to cool containers exposed to flames to prevent explosions.

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

#### HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

Excess pressure may form in containers exposed to fire at a risk of explosion. Do not breathe combustion products.

### 5.3. Advice for firefighters



ILPA ADESIVI SRL

Revision nr. 2

Dated 05/10/2021

Printed on 05/10/2021

Page n. 5/25

Replaced revision:1 (Printed on: 04/03/2016)

**M8119 - DRAI - IMPERMIABILIZZANTE PER  
MANUFATTI**

**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. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

**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

Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

Send away individuals who are not suitably equipped. Use explosion-proof equipment. Eliminate all sources of ignition (cigarettes, flames, sparks, etc.) from the leakage site.

### 6.2. Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

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

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.

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

Keep away from heat, sparks and naked flames; do not smoke or use matches or lighters. Without adequate ventilation, vapours may accumulate at ground level and, if ignited, catch fire even at a distance, with the danger of backfire. Avoid bunching of electrostatic charges. When performing transfer operations involving large containers, connect to an earthing system and wear antistatic footwear. Vigorous stirring and flow through the tubes and equipment may cause the formation and accumulation of electrostatic charges. In order to avoid the risk of fires and explosions, never use compressed air when handling. Open containers with caution as they may be pressurised. Do not eat, drink or smoke during use. Avoid leakage of the product into the environment.

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

Store only in the original container. Store the containers sealed, in a well ventilated place, away from direct sunlight. Store in a cool and well ventilated place, keep far away from sources of heat, naked flames and sparks and other sources of ignition. Keep containers away from any incompatible materials, see section 10 for details.

**M8119 - DRAI - IMPERMIABILIZZANTE PER MANUFATTI****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	Technischen Regeln für Gefahrstoffe (TRGS 900) - Liste der Arbeitsplatzgrenzwerte und Kurzzeitwerte. MAK- und BAT-Werte-Liste 2020, Ständige Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe, Mitteilung 56
ESP	España	Límites de exposición profesional para agentes químicos en España 2019
FRA	France	Valeurs limites d'exposition professionnelle aux agents chimiques en France. ED 984 - INRS
GRC	Ελλάδα	Π.Δ. 26/2020 (ΦΕΚ 50/Α΄ 6.3.2020) Εναρμόνιση της ελληνικής νομοθεσίας προς τις διατάξεις των οδηγιών 2017/2398/ΕΕ, 2019/130/ΕΕ και 2019/983/ΕΕ «για την τροποποίηση της οδηγίας 2004/37/ΕΚ σχετικά με την προστασία των εργαζομένων από τους κινδύνους που συνδέονται με την έκθεση σε καρκινογόνους ή μεταλλαξιογόνους παράγοντες κατά την εργασία»
HRV	Hrvatska	Pravilnik o izmjenama i dopunama Pravilnika o zaštiti radnika od izloženosti opasnimkemijskim na radu, graničnim vrijednostima izloženosti i biološkim graničnim vrijednostima (NN 1/2021)
ITA	Italia	Decreto Legislativo 9 Aprile 2008, n.81
NLD	Nederland	Arbeidsomstandighedenregeling. Lijst van wettelijke grenswaarden op grond van de artikelen 4.3, eerste lid, en 4.16, eerste lid, van het Arbeidsomstandighedenbesluit
PRT	Portugal	Decreto-Lei n.º 1/2021 de 6 de janeiro, valores-limite de exposição profissional indicativos para os agentes químicos. Decreto-Lei n.º 35/2020 de 13 de julho, proteção dos trabalhadores contra os riscos ligados à exposição durante o trabalho a agentes cancerígenos ou mutagénicos
ROU	România	Hotararea 157/2020 pentru modificarea Hotărârii Guvernului nr. 1.218/2006 privind stabilirea cerințelor minime de securitate și sănătate în muncă pentru asigurarea protecției lucrătorilor împotriva riscurilor legate de prezența agenților chimici, precum și pentru modificarea și completarea Hotărârii Guvernului nr. 1.093/2006 privind stabilirea cerințelor minime de securitate și sănătate pentru protecția lucrătorilor împotriva riscurilor legate de expunerea la agenți cancerigeni sau mutageni la locul de muncă
GBR	United Kingdom	EH40/2005 Workplace exposure limits (Fourth Edition 2020)
EU	OEL EU	Directive (EU) 2019/1831; Directive (EU) 2019/130; Directive (EU) 2019/983; Directive (EU) 2017/2398; Directive (EU) 2017/164; Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive 2000/39/EC; Directive 98/24/EC; Directive 91/322/EEC.
	TLV-ACGIH	ACGIH 2020

**METHYL ETHYL KETONE****Threshold Limit Value**

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		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
TLV	GRC	600	200	900	300	
GVI/KGVI	HRV	600	200	900	300	
VLEP	ITA	600	200	900	300	
TGG	NLD	590		500		SKIN
VLE	PRT	600	200	900	300	
TLV	ROU	600	200	900	300	
WEL	GBR	600	200	899	300	SKIN

**ILPA ADESIVI SRL**

Revision nr. 2

Dated 05/10/2021

Printed on 05/10/2021

Page n. 7/25

Replaced revision:1 (Printed on: 04/03/2016)

**M8119 - DRAI - IMPERMIABILIZZANTE PER MANUFATTI**

OEL	EU	600	200	900	300
TLV-ACGIH		590	200	885	300

Predicted no-effect concentration - PNEC					
Normal value in fresh water				55,8	mg/l
Normal value in marine water				55,8	mg/l
Normal value for fresh water sediment				284,74	mg/kg/d
Normal value for marine water sediment				284,74	mg/kg/d
Normal value for water, intermittent release				55,8	mg/l
Normal value of STP microorganisms				709	mg/l
Normal value for the food chain (secondary poisoning)				1000	mg/kg
Normal value for the terrestrial compartment				22,5	mg/kg/d

Health - Derived no-effect level - DNEL / DMEL								
Route of exposure	Effects on consumers				Effects on workers			
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral			VND	31 mg/kg bw/d				
Inhalation			VND	106 mg/m3			VND	600 mg/m3
Skin			VND	412 mg/kg bw/d			VND	1161 mg/kg bw/d

HYDROCARBONS, C9, AROMATICS					
Threshold Limit Value					
Type	Country	TWA/8h	STEL/15min	Remarks / Observations	
		mg/m3	ppm	mg/m3	ppm
OEL	EU	100	19		

Health - Derived no-effect level - DNEL / DMEL								
Route of exposure	Effects on consumers				Effects on workers			
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral			VND	11 mg/kg bw/d				
Inhalation			VND	32 mg/m3			VND	150 mg/m3
Skin			VND	11 mg/kg bw/d			VND	25 mg/kg bw/d

ETHYL ACETATE					
Threshold Limit Value					
Type	Country	TWA/8h	STEL/15min	Remarks / Observations	
		mg/m3	ppm	mg/m3	ppm
AGW	DEU	730	200	1460	400
MAK	DEU	750	200	1500	400
VLA	ESP	734	200	1468	400
VLEP	FRA	734	200	1468	400
TLV	GRC	734	200	1468	400
GVI/KGVI	HRV	734	200	1468	400
TGG	NLD	734		1468	

**ILPA ADESIVI SRL**

Revision nr. 2

Dated 05/10/2021

Printed on 05/10/2021

Page n. 8/25

Replaced revision:1 (Printed on: 04/03/2016)

**M8119 - DRAI - IMPERMIABILIZZANTE PER MANUFATTI**

VLE	PRT	734	200	1468	400
TLV	ROU	400	111	500	139
WEL	GBR	734	200	1468	400
OEL	EU	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
Normal value for fresh water sediment	1,15	mg/kg/d
Normal value for marine water sediment	0,115	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)	200	mg/kg
Normal value for the terrestrial compartment	0,148	mg/kg/d
Normal value for the atmosphere	NPI	

**Health - Derived no-effect level - DNEL / DMEL**

Route of exposure	Effects on consumers				Effects on workers			
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral			VND	4,5 mg/kg bw/d				
Inhalation	734 mg/m3	734 mg/m3	367 mg/m3	367 mg/m3	1468 mg/m3	1468 mg/m3	734 mg/m3	734 mg/m3
Skin			VND	37 mg/kg bw/d			VND	63 mg/kg bw/d

**XYLENE (MIXTURE OF ISOMERS)****Threshold Limit Value**

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		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
VLEP	FRA	221	50	442	100	SKIN
TLV	GRC	435	100	650	150	
GVI/KGVI	HRV	221	50	442	100	SKIN
VLEP	ITA	221	50	442	100	SKIN
TGG	NLD	210		442		SKIN
VLE	PRT	221	50	442	100	SKIN
TLV	ROU	221	50	442	100	SKIN
WEL	GBR	220	50	441	100	SKIN
OEL	EU	221	50	442	100	SKIN
TLV-ACGIH		434	100	651	150	

**Predicted no-effect concentration - PNEC**

Normal value in fresh water	0,327	mg/l
-----------------------------	-------	------





**M8119 - DRAI - IMPERMIABILIZZANTE PER MANUFATTI**

Normal value in marine water	0,327	mg/l
Normal value for fresh water sediment	12,46	mg/kg/d
Normal value for marine water sediment	12,46	mg/kg/d
Normal value for water, intermittent release	0,327	mg/l
Normal value of STP microorganisms	6,58	mg/l
Normal value for the terrestrial compartment	2,31	mg/kg/d

Health - Derived no-effect level - DNEL / DMEL								
Route of exposure	Effects on consumers				Effects on workers			
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral			VND	1,6 mg/kg bw/d				
Inhalation	174 mg/m3	174 mg/m3	VND	14,8 mg/m3	289 mg/m3	289 mg/m3	VND	77 mg/m3
Skin			VND	108 mg/kg bw/d			VND	180 mg/kg bw/d

**N-BUTYL ACETATE  
Threshold Limit Value**

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
AGW	DEU	300	62	600 (C)	124 (C)	
VLA	ESP	724	150	965	200	
VLEP	FRA	710	150	940	200	
TLV	GRC	710	150	950	200	
GVI/KGVI	HRV	241	50	723	150	
TGG	NLD	150				
VLE	PRT	241	50	723	150	
TLV	ROU	715	150	950	200	
WEL	GBR	724	150	966	200	
OEL	EU	241	50	723	150	
TLV-ACGIH			50		150	

Predicted no-effect concentration - PNEC		
Normal value in fresh water	0,18	mg/l
Normal value in marine water	0,018	mg/l
Normal value for fresh water sediment	0,981	mg/kg/d
Normal value for marine water sediment	0,0981	mg/kg/d
Normal value for water, intermittent release	0,36	mg/l
Normal value of STP microorganisms	35,6	mg/l
Normal value for the terrestrial compartment	0,0903	mg/kg/d

Health - Derived no-effect level - DNEL / DMEL								
Route of exposure	Effects on consumers				Effects on workers			
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Inhalation	859,7 mg/m3	859,7 mg/m3	102,34 mg/m3	102,34 mg/m3	960 mg/m3	960 mg/m3	480 mg/m3	480 mg/m3

**M8119 - DRAI - IMPERMIABILIZZANTE PER MANUFATTI****TITANIUM TETRABUTANOLATE****Threshold Limit Value**

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
OEL	EU	44	5			
Predicted no-effect concentration - PNEC						
Normal value in fresh water				0,08		mg/l
Normal value in marine water				0,008		mg/l
Normal value for fresh water sediment				0,69		mg/kg/d
Normal value for marine water sediment				0,007		mg/kg/d
Normal value for water, intermittent release				2,25		mg/l
Normal value of STP microorganisms				65		mg/l
Normal value for the terrestrial compartment				0,017		mg/kg/d

**Health - Derived no-effect level - DNEL / DMEL**

Route of exposure	Effects on consumers				Effects on workers			
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral	NPI	NPI	VND	3,75 mg/kg bw/d				
Inhalation	VND	VND	VND	152 mg/m3	NPI	NPI	VND	127 mg/m3
Skin	NPI	NPI	VND	37,5 mg/kg bw/d	NPI	NPI	VND	VND

**ETHYL SILICATE****Threshold Limit Value**

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
AGW	DEU	12	1,4	12 (C)	1,4 (C)	
MAK	DEU	86	10	86	10	
VLEP	FRA	85	10			
TLV	GRC	44	5			
GVI/KGVI	HRV	44	5			
TGG	NLD	44				
VLE	PRT	44	5			
TLV	ROU	44	5			
WEL	GBR	44	5			
OEL	EU	44	5			
TLV-ACGIH		85	10			
Predicted no-effect concentration - PNEC						
Normal value in fresh water				0,19		mg/l
Normal value in marine water				0,019		mg/l
Normal value for fresh water sediment				0,83		mg/kg/d
Normal value for marine water sediment				0,083		mg/kg/d
Normal value for water, intermittent release				10		mg/l

**M8119 - DRAI - IMPERMIABILIZZANTE PER  
MANUFATTI**

Normal value of STP microorganisms	4000	mg/l						
Normal value for the terrestrial compartment	0,05	mg/kg/d						
<b>Health - Derived no-effect level - DNEL / DMEL</b>								
	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				
Inhalation	14 mg/m3	14 mg/m3	14 mg/m3	14 mg/m3	85 mg/m3	85 mg/m3	85 mg/m3	85 mg/m3
Skin	NPI	3 mg/kg bw/d	NPI	3 mg/kg bw/d	NPI	56 mg/kg bw/d	NPI	56 mg/kg bw/d

Legend:

(C) = CEILING ; INHAL = Inhalable Fraction ; RESP = Respirable Fraction ; THORA = Thoracic Fraction.

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

## 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

Protect hands with category III work gloves (see standard EN 374).

The following should be considered when choosing work glove material: compatibility, degradation, failure time and permeability.

The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

### SKIN PROTECTION

Wear category I 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.

Consider the appropriateness of providing antistatic clothing in the case of working environments in which there is a risk of explosion.

### 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, wear a mask with a type AX filter, whose limit of use will be defined by the manufacturer (see standard EN 14387). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required.

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.

If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529.

### ENVIRONMENTAL EXPOSURE CONTROLS

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

**M8119 - DRAI - IMPERMIABILIZZANTE PER  
MANUFATTI**

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	liquid	
Colour	transparent	
Odour	characteristic of solvent	
Odour threshold	Not available	Concentration:10 ppm Substance:METHYL ETHYL KETONE
pH	Not applicable	
Melting point / freezing point	Not available	Substance:METHYL ETHYL KETONE Temperature:-86°C NIOSH
Initial boiling point	> 35 °C	
Boiling range	Not available	
Flash point	< 23 °C	
Evaporation rate	Not available	Concentration:4,60 (n-butyl acetate=I; PPG TRUEFINISH) Substance:METHYL ETHYL KETONE
Flammability (solid, gas)	not applicable	
Lower inflammability limit	Not available	
Upper inflammability limit	Not available	
Lower explosive limit	Not available	Concentration:1.8 Vol% (NIOSH) Substance:METHYL ETHYL KETONE
Upper explosive limit	Not available	Concentration:10,5 KPa (T=20°C) NIOSH Substance:METHYL ETHYL KETONE
Vapour pressure	Not available	Concentration:10,5 KPa (T=20°C) NIOSH Substance:METHYL ETHYL KETONE
Vapour density	Not available	Concentration:2,41 (air=1) NIOSH Substance:METHYL ETHYL KETONE
Relative density	0,8 Kg/l	
Solubility	insoluble in water	
Partition coefficient: n-octanol/water	Not available	Concentration:Log Pow 0,29 NIOSH Substance:METHYL ETHYL KETONE
Auto-ignition temperature	Not available	Substance:METHYL ETHYL KETONE Temperature:505°C NIOSH
Decomposition temperature	Not available	
Viscosity	Not available	Concentration:0,4 mPas (dynamic, T=25°C) Substance:METHYL ETHYL KETONE
Explosive properties	not applicable	
Oxidising properties	not applicable	

**9.2. Other information**

VOC (Directive 2010/75/EC) : 98,75 % - 790,02 g/litre

**M8119 - DRAI - IMPERMIABILIZZANTE PER  
MANUFATTI**

VOC (volatile carbon) : 67,76 % - 542,12 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.

**N-BUTYL ACETATE**

Decomposes on contact with: water.

**10.2. Chemical stability**

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

**10.3. Possibility of hazardous reactions**

The vapours may also form explosive mixtures with the air.

**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.

**N-BUTYL ACETATE**

Risk of explosion on contact with: strong oxidising agents. May react dangerously with: alkaline hydroxides, potassium tert-butoxide. Forms explosive mixtures with: air.

**10.4. Conditions to avoid**

**M8119 - DRAI - IMPERMIABILIZZANTE PER  
MANUFATTI**

Avoid overheating. Avoid bunching of electrostatic charges. Avoid all sources of ignition.

METHYL ETHYL KETONE

Avoid exposure to: sources of heat.

ETHYL ACETATE

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

N-BUTYL ACETATE

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

**10.5. Incompatible materials**

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.

N-BUTYL ACETATE

Incompatible with: water,nitrates,strong oxidants,acids,alkalis,zinc.

**10.6. Hazardous decomposition products**

In the event of thermal decomposition or fire, gases and vapours that are potentially dangerous to health may be released.

**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.



ILPA ADESIVI SRL

Revision nr. 2

Dated 05/10/2021

Printed on 05/10/2021

Page n. 15/25

Replaced revision:1 (Printed on: 04/03/2016)

**M8119 - DRAI - IMPERMIABILIZZANTE PER  
MANUFATTI**

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

N-BUTYL ACETATE

WORKERS: inhalation; contact with the skin.

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

XYLENE (MIXTURE OF ISOMERS)

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

N-BUTYL ACETATE

In humans, the substance's vapours cause irritation of the eyes and nose. In the event of repeated exposure, skin irritation, dermatitis (dryness and cracking of the skin) and keratitis appear.

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.

N-BUTYL ACETATE

A case of acute intoxication been reported involving a 33 year old worker while cleaning a tank with a preparation containing xylenes, butyl acetate and ethylene glycol acetate. The person had irritation of the conjunctiva and upper respiratory tract, drowsiness and motor coordination disorders, which disappeared within 5 hours. The symptoms are attributed to poisoning by mixed xylenes and butyl acetate, with a possible synergistic effect responsible for the neurological effects. Cases of vacuolar keratitis are reported in workers exposed to a mixture of butyl acetate and isobutanol vapours, but with uncertainty concerning the responsibility of a particular solvent (INRC, 2011).

ACUTE TOXICITY

ATE (Inhalation) of the mixture:

> 20 mg/l

ATE (Oral) of the mixture:

Not classified (no significant component)

ATE (Dermal) of the mixture:

>2000 mg/kg

ETHYL SILICATE

LD50 (Oral) > 2500 mg/kg rat, according to (OECD Guideline 423)

LC50 (Inhalation) 10 mg/l/1h male rats, according to (OECD Guideline 403)

XYLENE (MIXTURE OF ISOMERS)



**M8119 - DRAI - IMPERMIABILIZZANTE PER  
MANUFATTI**

LD50 (Oral) 3523 mg/kg Rat (equivalent or similar to EU Method B.1 )

LD50 (Dermal) 4200 mg/kg Rabbit (Industrial Medicine 39, 215-200, 1970)

LC50 (Inhalation) 26 mg/l/4h Rat(equivalent or similar to EU Method B.2)

**METHYL ETHYL KETONE**

LD50 (Oral) 2193 mg/kg Rat (read-across from supporting substance, Equivalent or similar to OECD Guideline 423)

LD50 (Dermal) 6480 mg/kg Rabbit (Shell Chemical Company. Vol. MSDS-5390-4)

LC50 (Inhalation) 5000 ppm Rat (Rif. SDS Brenntag)

**ETHYL ACETATE**

LD50 (Oral) 4934 mg/kg Rabbit (Equivalent to OECD 401)

LD50 (Dermal) 20000 mg/kg Rabbit (Publication Am Ind Hyg Ass J, 23, 95)

LC50 (Inhalation) 22,5 mg/l/6h Rat (40 CFR Part 799 (58 FR 40262))

**N-BUTYL ACETATE**

LD50 (Oral) 10760 mg/kg Rat (Equivalent or similar to OECD Guideline 423)

LD50 (Dermal) 14112 mg/kg Rabbit (Equivalent or similar to OECD Guideline 402)

LC50 (Inhalation) 5,3 mg/l/4h Rat (Equivalent or similar to OECD Guideline 423)

**HYDROCARBONS, C9, AROMATICS**

LD50 (Oral) 3492 mg/kg Rat (Study report ECHA)

LD50 (Dermal) 3160 mg/kg Rabbit (Equivalent or similar to OECD Guideline 402)

LC50 (Inhalation) 6193 ppm/4h Rat (Equivalent or similar to OECD Guideline 403, GLP)

**TITANIUM TETRABUTANOLATE**

LD50 (Oral) > 2000 mg/kg According to OECD Guideline 423 (rat)

**SKIN CORROSION / IRRITATION**



**M8119 - DRAI - IMPERMIABILIZZANTE PER  
MANUFATTI**

Repeated exposure may cause skin dryness or cracking.

**SERIOUS EYE DAMAGE / IRRITATION**

Causes serious eye irritation

**RESPIRATORY OR 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****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)

**M8119 - DRAI - IMPERMIABILIZZANTE PER  
MANUFATTI**

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

**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 Plants 1972 mg/l/72h *Selenastrum capricornutum* (OECD Guideline 201, GLP)

**ETHYL ACETATE**

LC50 - for Fish 230 mg/l/96h *Pimephales promelas* (US EPA method E03-05)  
EC50 - for Crustacea 165 mg/l/48h *Daphnia* (Rif. SDS fornitore)  
Chronic NOEC for Crustacea 100 mg/l *Scenedesmus subspicatus* (OECD Guideline 201, GLP)

**N-BUTYL ACETATE**

LC50 - for Fish 18 mg/l/96h *Pimephales promelas* (Equivalent or similar to OECD Guideline 203)  
EC50 - for Crustacea 44 mg/l/48h *Daphnia* sp. (Publication, 1959, no guideline followed)  
EC50 - for Algae / Aquatic Plants 648 mg/l/72h *Desmodesmus subspicatus* (Umweltbundesamt - German Federal Environment Agency)  
Chronic NOEC for Crustacea 23 mg/l *Daphnia magna*, 21 d (Read-across from supporting substance, OECD Guideline 211)

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

**12.2. Persistence and degradability****ETHYL SILICATE**

Solubility in water 1000 - 10000 mg/l  
Rapidly degradable

**XYLENE (MIXTURE OF ISOMERS)**

Solubility in water 100 - 1000 Handbook of aqueous solubility data. mg/l  
Rapidly degradable  
OECD Guideline 301 F, GLP

**METHYL ETHYL KETONE**

**M8119 - DRAI - IMPERMIABILIZZANTE PER  
MANUFATTI**

Solubility in water > 10000 mg/l

Rapidly degradable  
(OECD Guideline 301 D, GLP)

**ETHYL ACETATE**

Solubility in water > 10000 mg/l

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

**N-BUTYL ACETATE**

Solubility in water 1000 - 10000 mg/l

Rapidly degradable  
OECD Guideline 301 D

**HYDROCARBONS, C9, AROMATICS**

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

**12.3. Bioaccumulative potential****ETHYL SILICATE**

Partition coefficient: n-octanol/water 3,18

BCF 3,16

**XYLENE (MIXTURE OF ISOMERS)**

Partition coefficient: n-octanol/water 3,12 American Chemical Society, Washington DC

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

**METHYL ETHYL KETONE**

Partition coefficient: n-octanol/water 0,3

**ETHYL ACETATE**

Partition coefficient: n-octanol/water 0,68

BCF 30

**N-BUTYL ACETATE**

Partition coefficient: n-octanol/water 2,3 a 25 °C (Metodo OECD TG 117)

BCF 15,3

**12.4. Mobility in soil****XYLENE (MIXTURE OF ISOMERS)**

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

**N-BUTYL ACETATE**

Partition coefficient: soil/water < 3



**M8119 - DRAI - IMPERMIABILIZZANTE PER  
MANUFATTI**

**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  $\geq$  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.

**SECTION 14. Transport information**

**14.1. UN number**

ADR / RID, IMDG, IATA: 1993

**14.2. UN proper shipping name**

ADR / RID: FLAMMABLE LIQUID, N.O.S. (Ethyl methyl keton ,Hydrocarbons, C9, aromatics) MIXTURE

IMDG: FLAMMABLE LIQUID, N.O.S. (Ethyl methyl keton ,Hydrocarbons, C9, aromatics) MIXTURE

IATA: FLAMMABLE LIQUID, N.O.S. (Ethyl methyl keton ,Hydrocarbons, C9, aromatics) MIXTURE

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

ADR / RID: Class: 3 Label: 3

IMDG: Class: 3 Label: 3

IATA: Class: 3 Label: 3



**14.4. Packing group**

ADR / RID, IMDG, IATA: II

**M8119 - DRAI - IMPERMIABILIZZANTE PER  
MANUFATTI****14.5. Environmental hazards**

ADR / RID: NO  
IMDG: NO  
IATA: NO

**14.6. Special precautions for user**

ADR / RID: HIN - Kemler: 33 Limited Quantities: 1 L Tunnel restriction code: (D/E)  
Special provision: -  
IMDG: EMS: F-E, S-E Limited Quantities: 1 L  
IATA: Cargo: Maximum quantity: 60 L Packaging instructions: 364  
Pass.: Maximum quantity: 5 L Packaging instructions: 353  
Special provision: A3

**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: P5c

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

Product  
Point

3. Liquid substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/ 2008:  
(a) hazard classes 2.1 to 2.4, 2.6 and 2.7, 2.8 types A and B, 2.9, 2.10, 2.12, 2.13 categories 1 and 2, 2.14 categories 1 and 2, 2.15 types A to F;  
(b) hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10;  
(c) hazard class 4.1;  
(d) hazard class 5.1.  
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.

Contained substance

Point 75 XYLENE (MIXTURE OF ISOMERS) Reg. no.: 01-2119488216-32

Point 75 BUTANOL Reg. no.:



ILPA ADESIVI SRL

Revision nr. 2

Dated 05/10/2021

Printed on 05/10/2021

Page n. 22/25

Replaced revision:1 (Printed on: 04/03/2016)

**M8119 - DRAI - IMPERMIABILIZZANTE PER  
MANUFATTI**

01-2119484630-38

Regulation (EC) No. 2019/1148 - on the marketing and use of explosives precursors

Not applicable

Substances in Candidate List (Art. 59 REACH)

On the basis of available data, the product does not contain any SVHC in percentage  $\geq$  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 been performed for the following contained substances

METHYL ETHYL KETONE

HYDROCARBONS, C9, AROMATICS

ETHYL ACETATE

## SECTION 16. Other information

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

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

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

**Acute Tox. 4** Acute toxicity, category 4

**M8119 - DRAI - IMPERMIABILIZZANTE PER  
MANUFATTI**

Asp. Tox. 1	Aspiration hazard, category 1
STOT RE 2	Specific target organ toxicity - repeated exposure, category 2
Eye Dam. 1	Serious eye damage, category 1
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
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
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.
H318	Causes serious eye damage.
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.

## Use descriptor system:

ERC	8a	Widespread use of non- reactive processing aid (no inclusion into or onto article, indoor)
ERC	8d	Widespread use of non- reactive processing aid (no inclusion into or onto article, outdoor)
PC	1	Adhesives, sealants
PC	15	Non-metal-surface treatment products
PC	18	Ink and toners
PC	23	Leather treatment products
PC	24	Lubricants, greases, release products
PC	31	Polishes and wax blends
PC	34	Textile dyes, and impregnating products
PC	4	Antifreeze and deicing products
PC	8	Biocidal products
PC	9a	Coatings and paints, thinners, paint removers
PC	9b	Fillers, putties, plasters, modelling clay
PROC	1	Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions.
PROC	10	Roller application or brushing
PROC	11	Non industrial spraying
PROC	13	Treatment of articles by dipping and pouring
PROC	15	Use as laboratory reagent
PROC	19	Manual activities involving hand contact
PROC	2	Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions
PROC	3	Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition
PROC	4	Chemical production where opportunity for exposure arises
PROC	5	Mixing or blending in batch processes
PROC	8a	Transfer of substance or mixture (charging and discharging) at non- dedicated facilities

**M8119 - DRAI - IMPERMIABILIZZANTE PER  
MANUFATTI**

**PROC 8b** Transfer of substance or mixture (charging and discharging) at dedicated facilities

**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
  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 (XIII Atp. CLP)
  16. Regulation (EU) 2019/521 (XII Atp. CLP)
  17. Regulation (EU) 2019/1148
  18. Regulation (EU) 2020/217 (XIV 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





**ILPA ADESIVI SRL**

Revision nr. 2

Dated 05/10/2021

Printed on 05/10/2021

Page n. 25/25

Replaced revision:1 (Printed on: 04/03/2016)

**M8119 - DRAI - IMPERMIABILIZZANTE PER  
MANUFATTI**

**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.

**CALCULATION METHODS FOR CLASSIFICATION**

Chemical and physical hazards: Product classification derives from criteria established by the CLP Regulation, Annex I, Part 2. The data for evaluation of chemical-physical properties are reported in section 9.

Health hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 3, unless determined otherwise in Section 11.

Environmental hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 4, unless determined otherwise in Section 12.

**Training for workers:**

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

**Changes to previous review:**

The following sections were modified:

01 / 02 / 03 / 04 / 06 / 07 / 08 / 09 / 10 / 11 / 12 / 14 / 15 / 16.