

**FILA INDUSTRIA CHIMICA S.P.A.**

Revision nr. 18

Dated 08/04/2019

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Page n. 1/19

Replaced revision:17 (Dated: 15/01/2019)

**VIA BAGNO**

## Safety data sheet according to regulation (CE) n. 1907/2006 (REACH), Annex II, and successive adjustments introduced by Commission Regulation (EU) no. 2015/830

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

#### 1.1. Product identifier

Product name **VIA BAGNO**  
Chemical name and synonym **Specific detergent for bathroom cleaning**

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

Intended use **Specific detergent for bathroom cleaning.**

Identified Uses	Industrial	Professional	Consumer
Uses	✓	✓	✓

#### 1.3. Details of the supplier of the safety data sheet

Name **FILA INDUSTRIA CHIMICA S.P.A.**  
Full address **Via Garibaldi, 58**  
District and Country **35018 San Martino di Lupari (PD)  
ITALIA**  
**Tel. +39.049.9467300**  
**Fax +39.049.9460753**

e-mail address of the competent person responsible for the Safety Data Sheet **sds@filasolutions.com**

#### 1.4. Emergency telephone number

For urgent inquiries refer to **TEL +39.049.9467300 (Monday – Friday; 8.30 - 12.30 and 14.00 - 17.30 )**  
**UNITED KINGDOM: NHS Direct 111 (In England, Scotland North Ireland) 08454647 (Wales); IRELAND 018092166**

### 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:

Eye irritation, category 2	H319	Causes serious eye irritation.
Hazardous to the aquatic environment, chronic toxicity, category 3	H412	Harmful 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.

Hazard pictograms:



Signal words: Warning

Hazard statements:

**H319** Causes serious eye irritation.  
**H412** Harmful to aquatic life with long lasting effects.

Precautionary statements:

**P501** Dispose of contents / container in accordance with local/regional/national/international regulation.  
**P102** Keep out of reach of children.  
**P101** If medical advice is needed, have product container or label at hand.  
**P305+P351+P338** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
**P280** Wear eye protection / face protection.  
**P337+P313** If eye irritation persists: Get medical advice / attention.

Ingredients according to Regulation (EC) No. 648/2004

Less than 5% cationic surfactants

perfumes

Preservation agents: 1,2-benzisothiazol-3(2H)-one

## 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



Contains:

Identification	x = Conc. %	Classification 1272/2008 (CLP)
<b>Alcohols, C12-14, ethoxylates</b>		
CAS 68439-50-9	$2 \leq x < 3$	Acute Tox. 4 H302, Eye Dam. 1 H318, Aquatic Chronic 3 H412
EC		
INDEX -		
<b>CITRIC ACID</b>		
CAS 77-92-9	$2 \leq x < 3$	Eye Irrit. 2 H319
EC 201-069-1		
INDEX -		
Reg. no. 01-2119457026-42		
<b>PROPYLENE GLYCOL MONO METHYL ETHER</b>		
CAS 107-98-2	$1 \leq x < 2$	Flam. Liq. 3 H226, STOT SE 3 H336
EC 203-539-1		
INDEX 603-064-00-3		
Reg. no. 01-2119457435-35		
<b>DIPROPYLENE GLYCOL MONOMETHYL ETHER</b>		
CAS 34590-94-8	$1 \leq x < 2$	Eye Irrit. 2 H319
EC 252-104-2		
INDEX -		
Reg. no. 01-2119450011-60		

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 any contact lenses. Wash with warm water for at least 15 minutes, opening the eyelids well. Consult a doctor if the problem persists.

SKIN: Remove contaminated clothing. Wash with water. If irritation persists, consult a doctor. Wash the contaminated garments before reusing them.

INHALATION: Bring the subject to fresh air. If breathing is difficult, call a doctor immediately.

INGESTION: Consult a doctor. Induce vomiting only upon medical advice. Do not give anything by mouth if the person is unconscious and if not authorized by the doctor.

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

Causes serious eye irritation.

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

Treat symptomatically.

## SECTION 5. Firefighting measures

### 5.1. Extinguishing media



**FILA INDUSTRIA CHIMICA S.P.A.**

Revision nr. 18

Dated 08/04/2019

Printed on 11/04/2019

Page n. 4/19

Replaced revision:17 (Dated: 15/01/2019)

**VIA BAGNO**

#### 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

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. 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

Stop the leak if there is no danger.

Wear appropriate protective equipment (including personal protective equipment referred to in section 8 of the safety data sheet) to prevent contamination of the skin, eyes and personal clothing. These indications are valid both for workers involved in the work and for emergency interventions.

Remove unequipped persons. Use an explosion-proof device. Eliminate all sources of ignition (cigarettes, flames, sparks, etc.) or heat from the area where the leak occurred.

#### 6.2. Environmental precautions

Prevent the product from entering sewers, surface waters, water tables.

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

For containment

Collect with absorbent substances (sand, diatomaceous earth, binder for acids, universal binder).

For the cleaning

After harvesting, wash the area and the materials involved with water, recovering the water used and, if necessary, sending it to disposal in authorized facilities.

#### 6.4. Reference to other sections

Reference to other sections Personal protection: see section 8 Disposal considerations: see section 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. Do not eat, drink or smoke



**VIA BAGNO**

during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat. Avoid leakage of the product into the environment.

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

Store only in the original container. Store in a 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.

**7.3. Specific end use(s)**

Information not available

**SECTION 8. Exposure controls/personal protection**

**8.1. Control parameters**

**Regulatory References:**

CZE	Česká Republika	Nariadení vlády č. 361/2007 Sb. kterým se stanoví podmínky ochrany zdraví při práci
DEU	Deutschland	TRGS 900 (Fassung 31.1.2018 ber.) - Liste der Arbeitsplatzgrenzwerte und Kurzzeitwerte
DNK	Danmark	Grænsevaerdier per stoffer og materialer
ESP	España	INSHT - Límites de exposición profesional para agentes químicos en España 2017
FIN	Suomi	HTP-arvot 2012. Haitallisiksi tunnetut pitoisuudet - Sosiaali- ja terveystieteiden tutkimuskeskus 2012:5
FRA	France	JORF n°0109 du 10 mai 2012 page 8773 texte n° 102
GBR	United Kingdom	EH40/2005 Workplace exposure limits
GRC	Ελλάδα	ΕΦΗΜΕΡΙΣ ΤΗΣ ΚΥΒΕΡΝΗΣΕΩΣ - ΤΕΥΧΟΣ ΠΡΩΤΟ Αρ. Φύλλου 19 - 9 Φεβρουαρίου 2012
HRV	Hrvatska	NN13/09 - Ministarstvo gospodarstva, rada i poduzetništva
HUN	Magyarország	50/2011. (XII. 22.) NGM rendelet a munkahelyek kémiai biztonságáról
ITA	Italia	Decreto Legislativo 9 Aprile 2008, n.81
NLD	Nederland	Databank of the social and Economic Council of Netherlands (SER) Values, AF 2011:18
NOR	Norge	Veiledning om Administrative normer for forurensning i arbeidsatmosfære
POL	Polska	ROZPORZADZENIE MINISTRA RODZIN Y, PRAC Y I POLITYKI SPOŁECZNEJ z dnia 12 czerwca 2018 r
PRT	Portugal	Ministério da Economia e do Emprego Consolida as prescrições mínimas em matéria de protecção dos trabalhadores contra os riscos para a segurança e a saúde devido à exposição a agentes químicos no trabalho - Diário da República I 26; 2012-02-06
ROU	România	Monitorul Oficial al României 44; 2012-01-19
SVK	Slovensko	NARIADENIE VLÁDY Slovenskej republiky z 20. júna 2007
SVN	Slovenija	Uradni list Republike Slovenije 04.06.2015 (1602) - Pravilnik o spremembah in dopolnitvah Pravilnika o varovanju delavcev pred tveganji zaradi izpostavljenosti kemičnim snovem pri delu
SWE	Sverige	Occupational Exposure Limit Values, AF 2011:18
TUR	Türkiye	KİMYASAL MADDELERLE ÇALIŞMALARDA SAĞLIK VE GÜVENLİK ÖNLEMLERİ HAKKINDA YÖNETMELİK - Resmi Gazete Tarihi: 12.08.2013 Resmi Gazete Sayısı: 28733
EU	OEL EU	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 91/322/EEC.
	TLV-ACGIH	ACGIH 2018

**CITRIC ACID**

Predicted no-effect concentration - PNEC

Normal value in fresh water	0,44	mg/l
Normal value in marine water	0,044	mg/l
Normal value for fresh water sediment	34,6	mg/kg dw
Normal value for marine water sediment	3,46	mg/kg dw
Normal value of STP microorganisms	1000	mg/l
Normal value for the terrestrial compartment	33,1	mg/kg dw

**PROPYLENE GLYCOL MONO METHYL ETHER**

**Threshold Limit Value**



# FILA INDUSTRIA CHIMICA S.P.A.

Revision nr. 18

Dated 08/04/2019

Printed on 11/04/2019

Page n. 6/19

Replaced revision:17 (Dated: 15/01/2019)

## VIA BAGNO

Type	Country	TWA/8h		STEL/15min		
		mg/m3	ppm	mg/m3	ppm	
TLV	CZE	270		550		SKIN
AGW	DEU	370	100	740	200	
MAK	DEU	370	100	740	200	
TLV	DNK	185	50			
VLA	ESP	375	100	568	150	SKIN
HTP	FIN	370	100	560	150	SKIN
VLEP	FRA	188	50	375	10	SKIN
WEL	GBR	375	100	560	150	SKIN
TLV	GRC	360	100	1080	300	
GVI	HRV	375	100	568	150	SKIN
AK	HUN	375		568		
VLEP	ITA	375	100	568	150	SKIN
OEL	NLD	375		563		SKIN
TLV	NOR	180	50			SKIN
NDS	POL	180		360		
VLE	PRT	375	100	568	150	
TLV	ROU	375	100	568	150	SKIN
NPHV	SVK	375	100	568		SKIN
MV	SVN	375	100	562,5	150	SKIN
MAK	SWE	190	50	300	75	SKIN
ESD	TUR	375	100	568	150	SKIN
OEL	EU	375	100	568	150	SKIN
TLV-ACGIH		184	50	368	100	

Predicted no-effect concentration - PNEC	
Normal value in fresh water	10 mg/l
Normal value in marine water	1 mg/l
Normal value for fresh water sediment	52,3 mg/kg/d
Normal value for marine water sediment	5,2 mg/kg/d
Normal value for water, intermittent release	100 mg/l
Normal value of STP microorganisms	100 mg/l

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	3,3 mg/kg bw/d				
Inhalation			VND	43,9 mg/kg			553,5 mg/m3	369 mg/m3
Skin			VND	18,1 mg/kg bw/d			VND	50,6 mg/kg bw/d

### DIPROPYLENE GLYCOL MONOMETHYL ETHER

#### Threshold Limit Value

**FILA INDUSTRIA CHIMICA S.P.A.**

Revision nr. 18

Dated 08/04/2019

Printed on 11/04/2019

Page n. 7/19

Replaced revision:17 (Dated: 15/01/2019)

**VIA BAGNO**

Type	Country	TWA/8h		STEL/15min		
		mg/m3	ppm	mg/m3	ppm	
TLV	CZE	270		550		SKIN
MAK	DEU	310	50	310	50	
TLV	DNK	300	50			
VLA	ESP	308	50			SKIN
HTP	FIN	310	50			
VLEP	FRA	308	50			SKIN
WEL	GBR	308	50			SKIN
TLV	GRC	600	100	900	150	
AK	HUN	308		308		
VLEP	ITA	308	50			SKIN
TLV	NOR	300	50			SKIN
NDS	POL	240		480		
VLE	PRT	308	50			SKIN
TLV	ROU	308	50			SKIN
NPHV	SVK	308	50			SKIN
MV	SVN	308	50			SKIN
MAK	SWE	300	50	450	75	SKIN
ESD	TUR	308	50			SKIN
OEL	EU	308	50			SKIN
TLV-ACGIH		606	100	909	150	SKIN

**Predicted no-effect concentration - PNEC**

Normal value in fresh water	19	mg/l
Normal value in marine water	1,9	mg/l
Normal value for fresh water sediment	70,2	mg/kg
Normal value for marine water sediment	7,02	mg/kg
Normal value for water, intermittent release	190	mg/l
Normal value of STP microorganisms	4168	mg/l
Normal value for the terrestrial compartment	2,74	mg/kg

**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	36 mg/kg bw/d				
Inhalation			VND	37,2 mg/m3			VND	308 mg/m3
Skin			VND	121 mg/kg bw/d			VND	283 mg/kg/d

**Benzyl acetate****Threshold Limit Value**

Type	Country	TWA/8h		STEL/15min	
		mg/m3	ppm	mg/m3	ppm

**FILA INDUSTRIA CHIMICA S.P.A.**

Revision nr. 18

Dated 08/04/2019

Printed on 11/04/2019

Page n. 8/19

Replaced revision:17 (Dated: 15/01/2019)

**VIA BAGNO**

OEL EU 10

**DIPHENYLETHER****Threshold Limit Value**

Type	Country	TWA/8h		STEL/15min	
		mg/m3	ppm	mg/m3	ppm

OEL EU 1 2

**Predicted no-effect concentration - PNEC**

Normal value in fresh water	0,0017	mg/l
Normal value in marine water	0,00017	mg/l
Normal value for fresh water sediment	0,345	mg/kg
Normal value for marine water sediment	0,0345	mg/kg
Normal value for water, intermittent release	0,017	mg/l
Normal value of STP microorganisms	10	mg/l
Normal value for the terrestrial compartment	0,0681	mg/kg

**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							0,68 mg/m3	245,8 mg/m3
Skin							0,15 mg/cm2	58,3 mg/kg bw/d

**3,7,-DIMETHYL-2,6-OCTADIENAL****Threshold Limit Value**

Type	Country	TWA/8h		STEL/15min	
		mg/m3	ppm	mg/m3	ppm

OEL EU 5

**(1S)6,6-DIMETHYL-2-METHYLENBICYCLOHEPTANE****Threshold Limit Value**

Type	Country	TWA/8h		STEL/15min	
		mg/m3	ppm	mg/m3	ppm

OEL EU 20

**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								5,98 mg/m3

**(1S)2,6,6-TRIMETHYLBICYCLO-2 HEPTENE****Threshold Limit Value**

Type	Country	TWA/8h		STEL/15min	
		mg/m3	ppm	mg/m3	ppm

OEL EU 20

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

Route of exposure	Effects on consumers				Effects on workers			
	Acute local	Acute systemic	Chronic local	Chronic	Acute local	Acute	Chronic local	Chronic

**FILA INDUSTRIA CHIMICA S.P.A.**

Revision nr. 18

Dated 08/04/2019

Printed on 11/04/2019

Page n. 9/19

Replaced revision:17 (Dated: 15/01/2019)

**VIA BAGNO**

	systemic	systemic	systemic
Inhalation	5,98 mg/m3		

## 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.

TLV of solvent mixture: 184 mg/m3

**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 must be considered for the final choice of the work glove material: compatibility, degradation, break time and permeation.

In the case of preparations, the resistance of work gloves to chemical agents must be checked before use as unpredictable. The gloves have a wear time that depends on the duration and the mode of use

Recommended material: Nitrile, minimum 0.38 mm thickness or equivalent protective barrier material with a high level performance for continuous contact conditions, with a minimum permeability time of 480 minutes in accordance with the CEN EN 420 and EN standards 374.

**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, use a mask with a type A filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (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.

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	blue
Odour	Citrusy
Odour threshold	Not available
pH	2,2
Melting point / freezing point	Not available
Initial boiling point	Not available
Boiling range	Not available
Flash point	> 93 °C
Evaporation Rate	Not available
Flammability of solids and gases	Not available
Lower inflammability limit	Not available
Upper inflammability limit	Not available
Lower explosive limit	Not available
Upper explosive limit	Not available
Vapour pressure	Not available
Vapour density	Not available
Relative density	1,009
Solubility	Readily soluble
Partition coefficient: n-octanol/water	Not available
Auto-ignition temperature	Not available
Decomposition temperature	Not available
Viscosity	Not available
Explosive properties	not applicable
Oxidising properties	not applicable

### 9.2. Other information

VOC (Directive 2010/75/EC) :	3,00 % - 30,24 g/litre
VOC (volatile carbon) :	1,63 % - 16,47 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.

PROPYLENE GLYCOL MONO METHYL ETHER

Dissolves various plastic materials. Stable in normal conditions of use and storage.

**VIA BAGNO**

Absorbs and dissolves in water and in organic solvents. With air it may slowly form explosive peroxides.

**DIPROPYLENE GLYCOL MONOMETHYL ETHER**

May react with: oxidising substances. When heated to decomposition releases: harsh fumes, zinc alloys.

**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.

**PROPYLENE GLYCOL MONO METHYL ETHER**

May react dangerously with: strong oxidising agents, strong acids.

**10.4. Conditions to avoid**

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

**PROPYLENE GLYCOL MONO METHYL ETHER**

Avoid exposure to: air.

**10.5. Incompatible materials****PROPYLENE GLYCOL MONO METHYL ETHER**

Incompatible with: oxidising substances, strong acids, alkaline metals.

**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**

**VIA BAGNO**Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

PROPYLENE GLYCOL MONO METHYL ETHER

WORKERS: inhalation; contact with the skin.

POPULATION: ingestion of contaminated food or water; inhalation of ambient air; contact with the skin of products containing the substance.

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

PROPYLENE GLYCOL MONO METHYL ETHER

The main route of entry is the skin, while the respiratory route is less important, given the low vapor pressure of the product. Above 100 ppm there is irritation of the ocular, nasal and oropharyngeal mucous membranes. At 1000 ppm there is a disturbance in the balance and severe irritation to the eyes. The clinical and biological tests performed on the exposed volunteers did not reveal any anomalies.

Interactive effects

Information not available

ACUTE TOXICITY

LC50 (Inhalation) of the mixture:

Not classified (no significant component)

LD50 (Oral) of the mixture:

>2000 mg/kg

LD50 (Dermal) of the mixture:

Not classified (no significant component)

CITRIC ACID

LD50 (Oral) 3000 mg/kg Rat

DIPROPYLENE GLYCOL MONOMETHYL ETHER

LD50 (Oral) 2410 mg/kg mouse male (fasted)

LD50 (Dermal) 2764 mg/kg rabbit

LC50 (Inhalation) > 29 ppm/1h 2h rat

PROPYLENE GLYCOL MONO METHYL ETHER

LD50 (Oral) 4016 mg/kg Rat male/female

LD50 (Dermal) 13000 mg/kg Rabbit

**VIA BAGNO**

LC50 (Inhalation) 54,6 mg/l/4h Rat

QUATERNARY AMMONIUM COMPOUNDS, BENZYL-C8-18-ALKYLDIMETHYL, CHLORIDES

LD50 (Oral) 795 mg/kg ratto

LD50 (Dermal) > 5000 mg/kg calculated

SKIN CORROSION / IRRITATION

Does not meet the classification criteria for this hazard class

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

REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class

## 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.



## VIA BAGNO

**12.1. Toxicity**DIPROPYLENE GLYCOL MONOMETHYL  
ETHER

LC50 - for Fish	1300 mg/l/96h <i>Lepomis machrochirus</i>
EC50 - for Crustacea	> 1919 mg/l/48h <i>Daphnia magna</i>
EC50 - for Algae / Aquatic Plants	> 969 mg/l/72h <i>Scenedesmus subspicatus</i>

PROPYLENE GLYCOL MONO METHYL  
ETHER

LC50 - for Fish	20800 mg/l/96h <i>Pimephales promelas</i>
EC50 - for Crustacea	23300 mg/l/48h <i>Daphnia magna</i>
EC50 - for Algae / Aquatic Plants	> 500 mg/l/72h <i>Scenedesmus subspicatus</i>

QUATERNARY AMMONIUM  
COMPOUNDS, BENZYL-C8-18-  
ALKYLDIMETHYL, CHLORIDES

LC50 - for Fish	0,085 mg/l/96h <i>Oncorhynchus mykiss</i>
EC50 - for Crustacea	0,016 mg/l/48h <i>daphnia magna</i>
EC50 - for Algae / Aquatic Plants	0,025 mg/l/72h <i>selenastrum capricornutum</i>

**12.2. Persistence and degradability**

## CITRIC ACID

Solubility in water	> 10000 mg/l
Rapidly degradable	

DIPROPYLENE GLYCOL MONOMETHYL  
ETHER

Solubility in water	1000 - 10000 mg/l
Rapidly degradable	
85% 28d	

PROPYLENE GLYCOL MONO METHYL  
ETHER

Solubility in water	1000 - 10000 mg/l
Rapidly degradable	
96% 28d	

QUATERNARY AMMONIUM  
COMPOUNDS, BENZYL-C8-18-  
ALKYLDIMETHYL, CHLORIDES

Rapidly degradable

## Alcohols C12-14, ethoxylated

Rapidly degradable  
95% 14d**12.3. Bioaccumulative potential**



## VIA BAGNO

## CITRIC ACID

Partition coefficient: n-octanol/water -1,72

BCF 3,2

DIPROPYLENE GLYCOL MONOMETHYL  
ETHER

Partition coefficient: n-octanol/water 0,056

PROPYLENE GLYCOL MONO METHYL  
ETHER

Partition coefficient: n-octanol/water &lt; 1

**12.4. Mobility in soil**

Information not available

**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.

**CONTAMINATED PACKAGING**

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

**SECTION 14. Transport information**

The product is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA) regulations.

**14.1. UN number**

Not applicable

**14.2. UN proper shipping name**



**FILA INDUSTRIA CHIMICA S.P.A.**

Revision nr. 18

Dated 08/04/2019

Printed on 11/04/2019

Page n. 16/19

Replaced revision:17 (Dated: 15/01/2019)

**VIA BAGNO**

Not applicable

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

Not applicable

**14.4. Packing group**

Not applicable

**14.5. Environmental hazards**

Not applicable

**14.6. Special precautions for user**

Not applicable

**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: None

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

Product

Point 3 - 40

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%.



**FILA INDUSTRIA CHIMICA S.P.A.**

Revision nr. 18

Dated 08/04/2019

Printed on 11/04/2019

Page n. 17/19

Replaced revision:17 (Dated: 15/01/2019)

**VIA BAGNO**

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.

Regulation (EC) No. 648/2004

Ingredients according to Regulation (EC) No. 648/2004

The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No. 648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

**15.2. Chemical safety assessment**

A chemical safety assessment has been performed for the following contained substances

PROPYLENE GLYCOL MONO METHYL ETHER

DIPROPYLENE GLYCOL MONOMETHYL ETHER

**SECTION 16. Other information**

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

<b>Flam. Liq. 3</b>	Flammable liquid, category 3
<b>Met. Corr. 1</b>	Substance or mixture corrosive to metals, category 1
<b>Acute Tox. 4</b>	Acute toxicity, category 4
<b>Asp. Tox. 1</b>	Aspiration hazard, category 1
<b>Skin Corr. 1B</b>	Skin corrosion, category 1B
<b>Eye Dam. 1</b>	Serious eye damage, category 1
<b>Eye Irrit. 2</b>	Eye irritation, category 2
<b>Skin Irrit. 2</b>	Skin irritation, category 2



## VIA BAGNO

<b>Skin Sens. 1</b>	Skin sensitization, category 1
<b>Skin Sens. 1B</b>	Skin sensitization, category 1B
<b>STOT SE 3</b>	Specific target organ toxicity - single exposure, category 3
<b>Aquatic Acute 1</b>	Hazardous to the aquatic environment, acute toxicity, category 1
<b>Aquatic Chronic 1</b>	Hazardous to the aquatic environment, chronic toxicity, category 1
<b>Aquatic Chronic 2</b>	Hazardous to the aquatic environment, chronic toxicity, category 2
<b>Aquatic Chronic 3</b>	Hazardous to the aquatic environment, chronic toxicity, category 3
<b>H226</b>	Flammable liquid and vapour.
<b>H290</b>	May be corrosive to metals.
<b>H302</b>	Harmful if swallowed.
<b>H304</b>	May be fatal if swallowed and enters airways.
<b>H314</b>	Causes severe skin burns and eye damage.
<b>H318</b>	Causes serious eye damage.
<b>H319</b>	Causes serious eye irritation.
<b>H315</b>	Causes skin irritation.
<b>H317</b>	May cause an allergic skin reaction.
<b>H336</b>	May cause drowsiness or dizziness.
<b>H400</b>	Very toxic to aquatic life.
<b>H410</b>	Very toxic to aquatic life with long lasting effects.
<b>H411</b>	Toxic to aquatic life with long lasting effects.
<b>H412</b>	Harmful to aquatic life with long lasting effects.

## 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).



**FILA INDUSTRIA CHIMICA S.P.A.**

Revision nr. 18

Dated 08/04/2019

Printed on 11/04/2019

Page n. 19/19

Replaced revision:17 (Dated: 15/01/2019)

**VIA BAGNO**

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- The Merck Index. - 10th Edition
- Handling Chemical Safety
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- Patty - Industrial Hygiene and Toxicology
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- 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.

Changes to previous review:

The following sections were modified:

02 / 03 / 04 / 06 / 08 / 09 / 16.