

## 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**Product name **DETERGENTE****1.2. Relevant identified uses of the substance or mixture and uses advised against**Intended use **Prodotto specifico per la pulizia della piscina**

Identified Uses	Industrial	Professional	Consumer
Products for washing and cleaning	PROC: 10, 7, 8b. PC: 35.	PROC: 10, 11, 8b. PC: 35.	-

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

Name **NEW PLAST SRL**  
Full address **VIA BRESCIA, 10/B**  
District and Country **26010 POZZAGLIO (CR)**  
**IT**  
**tel. +39 0375 55066**  
**CCIAA 133770**

e-mail address of the competent person responsible for the Safety Data Sheet

[info@poolmaster.it](mailto:info@poolmaster.it)

Product distribution by:

**NEW PLAST SRL****1.4. Emergency telephone number**

For urgent inquiries refer to

**Telefono d'emergenza 0375 55066**

**Centro Antiveleni di Milano 02 66101029 (CAV Ospedale Niguarda Ca' Granda -Milano) (H24)**  
**Centro Antiveleni di Pavia 0382 24444(CAV IRCCS Fondazione Maugeri-Pavia)**  
**Centro Antiveleni di Bergamo 800 883300 (CAV Ospedali Riuniti -Bergamo)**  
**Centro Antiveleni di Firenze 055 7947819 (CAV Ospedale Careggi - Firenze)**  
**Centro Antiveleni di Roma 06 3054343 (CAV Policlinico Gemelli - Roma)**  
**Centro Antiveleni di Roma 06 49978000 (CAV Policlinico Umberto I -Roma)**  
**Centro Antiveleni di Napoli 081 7472870 (CAV Ospedale Cardarelli -Napoli)**

**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:

Skin corrosion, category 1A

H314

Causes severe skin burns and eye damage.

Serious eye damage, category 1

H318

Causes serious eye damage.

**2.2. Label elements**

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

Hazard pictograms:



Signal words:

Danger

Hazard statements:

**H314**

Causes severe skin burns and eye damage.

Precautionary statements:

**P102**

Keep out of reach of children.

**P280**

Wear protective gloves/ protective clothing / eye protection / face protection.

**P303+P361+P353**

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

**P305+P351+P338**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**P314**

Get medical advice / attention if you feel unwell.

**Contains:**

sodio idrossido soluzione

**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>2-BUTOXYETHANOL</b>		
CAS 111-76-2	$5 \leq x < 10$	Acute Tox. 4 H302, Acute Tox. 4 H312, Acute Tox. 4 H332, Eye Irrit. 2 H319, Skin Irrit. 2 H315
EC 203-905-0		
INDEX 603-014-00-0		
Reg. no. 01-2119475108-36		
<b>sodio idrossido soluzione</b>		
CAS 1310-73-2	$2 \leq x < 5$	Met. Corr. 1 H290, Skin Corr. 1A H314, Eye Dam. 1 H318
EC 215-185-5		
INDEX 011-002-00-6		
Reg. no. 01-2119457892-27		
<b>Alcoli C12-14 etossilati 1-2,5 moli, solfati, sali di sodio</b>		
CAS 68891-38-3	$1 \leq x < 5$	Eye Dam. 1 H318, Skin Irrit. 2 H315, Aquatic Chronic 3 H412
EC 500-234-8		
INDEX -		
Reg. no. 01-2119488639-16-xxxx		

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

## SECTION 4. First aid measures

In case of doubt or the presence of a symptom, consult a doctor.

### 4.1. Description of first aid measures

**EYES:** Remove any contact lenses. Wash immediately with plenty of water for at least 30/60 minutes, opening the eyelids well. Consult a doctor.

**SKIN:** Remove contaminated clothing immediately. Take a shower immediately. Consult a doctor immediately.

**INGESTION:** DO NOT induce vomiting. Consult a doctor immediately. Never give anything by mouth to an unconscious person or with cramps.

**INHALATION:** Call a doctor immediately. Bring the subject to fresh air, away from the accident site. If breathing stops, give artificial respiration. Take appropriate precautions for the rescuer.

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

It causes serious skin burns and serious eye injuries.

### 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 MEDIA:** The extinguishing media are the traditional ones: carbon dioxide, foam and chemical powder. For leaks and spills

of the product that have not ignited, the nebulized water can be used to disperse the flammable vapors and to protect the people involved in stopping the loss. **NON-SUITABLE EXTINGUISHING MEDIA:** Do not use water jets. Water is not effective for extinguishing the fire but it can be used to cool closed containers exposed to the flame, preventing bursts and explosions.

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

HAZARDS DUE TO EXPOSURE IN THE EVENT OF FIRE: Avoid breathing combustion products: carbon oxides.

### 5.3. Advice for firefighters

GENERAL INFORMATION: Cool the containers with water jets to avoid decomposition of the product and the development of substances potentially hazardous for health. Wear, if necessary, complete fire protection equipment. Collect extinguishing water that must not be discharged into drains. Dispose of the contaminated water used for the fire extinguisher and the residue according to the regulations in force. **EQUIPMENT:** Not necessary for small fires. If necessary, wear fire-fighting clothing such as a fireproof suit (EN469), fireproof gloves (EN659) and boots for firefighters (HO A29 or A30) depending on the amount of product and any other materials involved in the fire.

## 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.

### 6.2. Environmental precautions

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

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

Vacuum the leaked product into a suitable container. Evaluate the compatibility of the container to be used with the product, checking section 10. Absorb the remainder with inert absorbent material. Ensure adequate ventilation of the area affected by the loss. Disposal of the contaminated material must be carried out in accordance with the provisions of point 13.

### 6.4. Reference to other sections

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

## SECTION 7. Handling and storage

### 7.1. Precautions for safe handling

Ensure that there is an adequate earthing system for the equipment and personnel. Avoid contact with eyes and skin. Do not breathe powders, vapours or mists. Do not eat, drink or smoke during use. Wash hands after 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 in a ventilated and dry place, far away from sources of ignition. Keep containers well sealed. Keep the product in clearly labelled containers. Avoid overheating. Avoid violent blows. Keep containers away from any incompatible materials, see section 10 for details.

### 7.3. Specific end use(s)

# NEW PLAST SRL

Revision nr. 7

Dated 22/10/2019

# DETERGENTE

Page n. 5/16

See the exposure scenarios attached to this safety datasheet.  
Information not available

## SECTION 8. Exposure controls/personal protection

### 8.1. Control parameters

Regulatory References:

ITA Italia DIRETTIVA (UE) 2017/164 DELLA COMMISSIONE del 31 gennaio 2017  
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.

### 2-BUTOXYETHANOL

#### Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		
		mg/m3	ppm	mg/m3	ppm	
VLEP	ITA	98	20	246	50	SKIN
OEL	EU	98	20	246	50	SKIN
Predicted no-effect concentration - PNEC						
Normal value in fresh water				8,8		mg/l
Normal value in marine water				0,88		mg/l
Normal value for fresh water sediment				34,6		mg/kg
Normal value for marine water sediment				3,46		mg/kg
Normal value for water, intermittent release				9,1		mg/l
Normal value of STP microorganisms				463		mg/l
Normal value for the food chain (secondary poisoning)				0,02		g/kg
Normal value for the terrestrial compartment				2,33		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		26,7 mg/kg bw/d	VND	6,3 mg/kg bw/d				
Inhalation	147 mg/m3 1h	246 mg/m3		59 mg/m3	246 mg/m3	1091 mg/m3		98 mg/m3
Skin		89 mg/kg bw/d	VND	75 mg/kg bw/d		89 mg/kg bw/d	VND	125 mg/kg bw/d

### sodio idrossido soluzione

#### Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		
		mg/m3	ppm	mg/m3	ppm	
OEL	EU	2				SKIN

#### 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			1 mg/m3				1 mg/m3	

### Alcoli C12-14 etossilati 1-2,5 moli, solfatati, sali di sodio

## 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	0,9168	mg/kg
Normal value for marine water sediment	0,0917	mg/kg
Normal value for water, intermittent release	0,071	mg/l
Normal value of STP microorganisms	10000	mg/l
Normal value for the terrestrial compartment	7,5	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	15 mg/kg bw/d				
Inhalation			VND	52 mg/m <sup>3</sup>			VND	175 mg/m <sup>3</sup> 4h
Skin			0,079 mg/cm <sup>2</sup>	1650 mg/kg bw/d			0,132 mg/cm <sup>2</sup>	2750 mg/kg

### 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.

When choosing risk management measures and operating conditions, consult the exposure scenarios attached.

Provide an emergency shower with face and eye wash station.

### HAND PROTECTION

In the case of prolonged contact with the product, protect the hands with penetration-resistant work gloves (see standard EN 374).

Work glove material must be chosen according to the use process and the products that may form. Latex gloves may cause sensitivity reactions.

Wear safety footwear for professional use of category III (ref. Directive 89/686 / EEC and standard EN ISO 20344) and anti-acid clothing for complete protection of the skin. Immediately replace contaminated clothing and wash them thoroughly before re-using them. Wash with soap and water after removing protective clothing.

### EYE PROTECTION

Wear a hood visor or protective visor combined with airtight goggles (see standard EN 166).

In the presence of risks of exposure to splashes or squirts during work, adequate mouth, nose and eye protection should be used to prevent accidental absorption.

### RESPIRATORY PROTECTION

None required, unless indicated otherwise in the chemical risk assessment.

## ENVIRONMENTAL EXPOSURE CONTROLS

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

For information on controlling environmental exposure, see the exposure scenarios attached to this safety datasheet.

**SECTION 9. Physical and chemical properties****9.1. Information on basic physical and chemical properties**

Appearance	liquid
Colour	colourless
Odour	characteristic
Odour threshold	Not available
pH	11,5
Melting point / freezing point	Not available
Initial boiling point	100 °C
Boiling range	Not available
Flash point	Not applicable
Evaporation Rate	Not available
Flammability of solids and gases	not applicable
Lower inflammability limit	Not applicable
Upper inflammability limit	Not applicable
Lower explosive limit	Not applicable
Upper explosive limit	Not applicable
Vapour pressure	Not available
Vapour density	Not available
Relative density	1,039 g/cm <sup>3</sup>
Solubility	soluble in water
Partition coefficient: n-octanol/water	Not available
Auto-ignition temperature	Not available
Decomposition temperature	Not available
Viscosity	<200 cps
Explosive properties	not applicable
Oxidising properties	Not available

**9.2. Other information**

Information not available

**SECTION 10. Stability and reactivity**

In the absence of data relating to the preparation, the following information refers to the substances that make up the mixture.

**10.1. Reactivity**

Depending on the nature of the components, it is not considered that the product can react violently with other substances miscible with water. In any

case, keep away from strongly reducing or oxidising compounds.

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corrosive power against metals.

#### **10.2. Chemical stability**

The product is stable in storage conditions and recommended use (see paragraph 7).

#### **10.3. Possibility of hazardous reactions**

Under normal conditions of use and storage, no dangerous reactions are foreseeable.

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Violent reaction under the action of oxidants. Reactions with acids.

#### **10.4. Conditions to avoid**

Avoid overheating.

#### **10.5. Incompatible materials**

None known.

2-BUTOXYETHANOL

Incompatible with: strong oxidants.

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It can react violently with: acids, halogenated organic substances, in particular trichlorethylene, aluminum and other highly reactive metals, aldehydes, anhydrides, nitriles in particular acrylonitrile, alcohols and phenols, cyanhydrins, organic nitro compounds, phosphorus, tetrahydrofuran.

#### **10.6. Hazardous decomposition products**

In case of excessive heating, the product can decompose liberating potentially toxic gases.

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Sodium oxides.

### **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

Information not available

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

Information not available

#### Interactive effects

Information not available

#### ACUTE TOXICITY

ATE (Inhalation) of the mixture:

> 20 mg/l

ATE (Oral) of the mixture:

>2000 mg/kg

ATE (Dermal) of the mixture:

>2000 mg/kg

#### 2-BUTOXYETHANOL

LD50 (Oral) 1414 mg/kg Ratto

LD50 (Dermal) > 2000 mg/kg porcellino d'india

LC50 (Inhalation) 450 ppm/4h ratto

Alcoli C12-14 etossilati 1-2,5 moli, solfatati, sali di sodio

LD50 (Oral) > 2000 mg/kg ratto

LD50 (Dermal) > 2000 mg/kg ratto

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LD50 (via interperitoneale) : 40 mg/kg/bw.

#### SKIN CORROSION / IRRITATION

Corrosive for the skin  
Classification according to the experimental Ph value

## SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye damage

## 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**

No specific data are available for this product. Handle it according to good working practices. Avoid littering. Do not contaminate soil and waterways. Inform the competent authorities, should the product reach waterways or contaminate soil or vegetation. Please take all the proper measures to reduce harmful effects on aquifers.

### **12.1. Toxicity**

#### 2-BUTOXYETHANOL

LC50 - for Fish

1474 mg/l/96h Oncorhynchus mykiss

EC50 - for Crustacea

1550 mg/l/48h Daphnia magna

EC50 - for Algae / Aquatic Plants

1840 mg/l/72h Pseudokirchneriella subcapitata

Chronic NOEC for Fish

> 100 mg/l 21 d Brachydanio rerio

Chronic NOEC for Crustacea

100 mg/l 21 d Daphnia magna

Alcoli C12-14 etossilati 1-2,5 moli, solfatati,  
sali di sodio

LC50 - for Fish	> 1 mg/l/96h Brachydanio rerio
EC50 - for Crustacea	> 1 mg/l/48h Daphnia magna
EC50 - for Algae / Aquatic Plants	> 10 mg/l/72h Desmodesmus subspicatus
Chronic NOEC for Fish	0,14 mg/l/28d Oncorhynchus mykiss
Chronic NOEC for Crustacea	0,27 mg/l/21d Daphnia magna
Chronic NOEC for Algae / Aquatic Plants	0,93 mg/l Desmodesmus subspicatus

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LC50 - for Fish	189 mg/l/96h Leuciscus idus
EC50 - for Crustacea	40,4 mg/l/48h Ceriodaphnia dubia

## 12.2. Persistence and degradability

2-BUTOXYETHANOL

Rapidly degradable

Alcoli C12-14 etossilati 1-2,5 moli, solfatati,  
sali di sodio

Rapidly degradable

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Degradability: information not available

Non applicabile per sostanze inorganiche.

## 12.3. Bioaccumulative potential

2-BUTOXYETHANOL

Partition coefficient: n-octanol/water 0,81 Log Kow 25 °C

## 12.4. Mobility in soil

2-BUTOXYETHANOL

Partition coefficient: soil/water 0,45

Alcoli C12-14 etossilati 1-2,5 moli, solfatati,  
sali di sodio

Partition coefficient: soil/water 191 l/kg Koc

## 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, 3267  
IATA:

### 14.2. UN proper shipping name

ADR / RID: CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S.  
IMDG: CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S.  
IATA: CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S.

### 14.3. Transport hazard class(es)

ADR / RID: Class: 8 Label: 8

IMDG: Class: 8 Label: 8

IATA: Class: 8 Label: 8



### 14.4. Packing group

ADR / RID, IMDG, III  
IATA:

### 14.5. Environmental hazards

ADR / RID: NO  
IMDG: NO  
IATA: NO

### 14.6. Special precautions for user

# NEW PLAST SRL

Revision nr. 7

Dated 22/10/2019

# DETERGENTE

Page n. 13/16

ADR / RID:	HIN - Kemler: 80	Limited Quantities: 5 L	Tunnel restriction code: (E)
IMDG:	Special provision: - EMS: F-A, S-B	Limited Quantities: 5 L	
IATA:	Cargo:	Maximum quantity: 60 L	Packaging instructions: 856
	Pass.:	Maximum quantity: 5 L	Packaging instructions: 852
	Special provision:	A3, A803	

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

Information not relevant

## SECTION 15. Regulatory information

codice ISS 02224000352 / U67

### 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 1907/2006Product Point 3

#### 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

2-BUTOXYETHANOL

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### **SECTION 16. Other information**

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

<b>Met. Corr. 1</b>	Substance or mixture corrosive to metals, category 1
<b>Acute Tox. 4</b>	Acute toxicity, category 4
<b>Skin Corr. 1A</b>	Skin corrosion, category 1A
<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
<b>Aquatic Chronic 3</b>	Hazardous to the aquatic environment, chronic toxicity, category 3
<b>H290</b>	May be corrosive to metals.
<b>H302</b>	Harmful if swallowed.
<b>H312</b>	Harmful in contact with skin.
<b>H332</b>	Harmful if inhaled.
<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>H412</b>	Harmful to aquatic life with long lasting effects.

Use descriptor system:

<b>PC</b>	<b>35</b>	Washing and cleaning products
<b>PROC</b>	<b>10</b>	Roller application or brushing
<b>PROC</b>	<b>11</b>	Non industrial spraying
<b>PROC</b>	<b>7</b>	Industrial spraying
<b>PROC</b>	<b>8b</b>	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)
- The Merck Index. - 10th Edition
  - Handling Chemical Safety
  - INRS - Fiche Toxicologique (toxicological sheet)
  - Patty - Industrial Hygiene and Toxicology
  - N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition
  - IFA GESTIS website
  - ECHA website
  - Database of SDS models for chemicals - Ministry of Health and ISS (Istituto Superiore di Sanità) - Italy

#### Note for users:

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

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

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

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

#### Changes to previous review:

The following sections were modified:

02 / 03 / 11 / 12 / 15.

## Exposure Scenarios

## DETERGENTE

Product DETERGENTE  
Scenario Title BUTILGLICOLE  
Revision nr. 11  
File EN\_0113\_11.pdf

Product DETERGENTE  
Scenario Title Alcoli etossilati, solfatati, sodici  
Revision nr. 1  
File EN\_1012\_1.pdf

Product DETERGENTE  
Scenario Title IDROSSIDO DI SODIO  
Revision nr. 6  
File EN\_2493\_6.pdf