

Safety Data Sheet

According to Annex II to REACH - Regulation (EU) 2020/878 and to Annex II to UK REACH

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

1.1. Product identifier

 Code: **Z75163**
 Product name: **SCHIUMOGENO CONCENTRATO**

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

 Intended use: **Foam-forming foamed liquid**

Identified Uses	Industrial	Professional	Consumer
Other: Track products	✓	-	-
Other: Track products	-	✓	-
Uses Advised Against			
None known			

1.3. Details of the supplier of the safety data sheet

 Name: **FIRMA SRL**
 Full address: **VIA PER MODENA, 28**
 District and Country: **42015 CORREGGIO (RE) IT**
 Tel.: **0522 691880**
 Fax: **0522 631277**

 e-mail address of the competent person responsible for the Safety Data Sheet: **SDS@FIRMACHIMICA.IT**

 Supplier: **FIRMA SRL**

1.4. Emergency telephone number

 For urgent inquiries refer to: **Tel. 0039 0522 691880 Office hours: 08.30 - 12.30, 14.00 - 18.00**
Tel. 0039 0522 036527 other times – laboratorio@firmachimica.it

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 2020/878.

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:

Serious eye damage, category 1	H318	Causes serious eye damage.
Skin irritation, category 2	H315	Causes skin 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:



SECTION 2. Hazards identification ... / >>

Signal words: Danger

Hazard statements:

H318 Causes serious eye damage.
H315 Causes skin irritation.
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements:

P264 Wash [. .] thoroughly after handling.
P273 Avoid release to the environment.
P280 Wear protective gloves/ protective clothing / eye protection / face protection.
P302+P352 IN CASE OF CONTACT WITH SKIN: wash with plenty of water.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P311 Immediately call a POISON CENTER / doctor.
P332+P313 If skin irritation occurs: Get medical advice / attention.
P362+P364 Take off contaminated clothing and wash it before reuse.
P501 Dispose of the product / container in accordance with local / regional / national / international regulations.

Contains: ALLCOLI C12-14 Etoxylated 1-2.5 Mol, sulphate, sodium salts

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%.

 The product does not contain substances with endocrine disrupting properties in concentration \geq 0.1%.

SECTION 3. Composition/information on ingredients
3.2. Mixtures

Contains:

Identification	x = Conc. %	Classification (EC) 1272/2008 (CLP)
2-(2-BUTOXYETHOXY)ETHANOL		
INDEX	603-096-00-8	$10 \leq x < 20$
EC	203-961-6	Eye Irrit. 2 H319
CAS	112-34-5	
REACH Reg.	01-2119475104-44	
ALLCOLI C12-14 Etoxylated 1-2.5 Mol, sulphate, sodium salts		
INDEX	500-234-8	$5 \leq x < 10$
EC	68891-38-3	Eye Dam. 1 H318, Skin Irrit. 2 H315, Aquatic Chronic 3 H412
CAS	68891-38-3	Eye Dam. 1 H318: \geq 10%, Eye Irrit. 2 H319: \geq 1%
REACH Reg.	01-2119488639-16-xxxx	
Sodium Decyl Sulfate		
INDEX	205-568-5	$5 \leq x < 10$
EC	142-87-0	Acute Tox. 4 H302, Eye Dam. 1 H318, Skin Irrit. 2 H315, Aquatic Chronic 3 H412
CAS	142-87-0	Eye Dam. 1 H318: \geq 20%, Eye Irrit. 2 H319: \geq 10%
REACH Reg.	01-2119970328-30	LD50 Oral: 1200 mg/kg
1-tetradecanol		
INDEX	204-000-3	$1 \leq x < 2,5$
EC	112-72-1	Eye Irrit. 2 H319, Aquatic Chronic 1 H410 M=1
CAS	112-72-1	
REACH Reg.	01-2119485910-33	

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 when symptoms remain, seek medical advice keeping the information sheet of the preparation available. Do not administer unconscious persons by mouth.

4.1. Description of first aid measures

CONTACT WITH SKIN: wash the contaminated part with water and drain. If irritation persists or tissue damage occurs, consult a doctor if necessary.

CONTACT WITH EYES: remove contact lenses if present; wash the eyes with open eyelid with water. Consult a doctor.

INGESTION: Rinse mouth with water. Consult a doctor.

INHALATION: Remove the injured person from the danger area in a well ventilated area; if symptoms of discomfort appear, seek medical assistance.

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

No specific information on the symptoms and effects caused by the product is known.
For symptoms and effects due to the substances contained, see chap. 11.

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

Before handling the product, consult all the other sections of this material safety data sheet. Avoid leakage of the product into the environment. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat.

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. Keep containers away from any incompatible materials, see section 10 for details.

7.3. Specific end use(s)

See the exposure scenarios attached to this safety datasheet.

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
ITA	Italia	Decreto Legislativo 9 Aprile 2008, n.81

ALLCOLI C12-14 Etoxylated 1-2.5 Mol, sulphate, sodium salts

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/m3			VND	175 mg/m3 4h
Skin			0,079 mg/cm2	1650 mg/kg bw/d			0,132 mg/cm2	2750 mg/kg bw/d

SECTION 8. Exposure controls/personal protection ... / >>
2-(2-BUTOXYETHOXY)ETHANOL
Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m ³	ppm	mg/m ³	ppm	
VLEP	ITA	67,5	10	101,2	15	

Predicted no-effect concentration - PNEC

Normal value in fresh water	1,1	mg/l
Normal value in marine water	0,11	mg/l
Normal value for fresh water sediment	4,4	mg/kg/d
Normal value for marine water sediment	0,44	mg/kg/d
Normal value for water, intermittent release	11	mg/l
Normal value for the food chain (secondary poisoning)	56	mg/kg
Normal value for the terrestrial compartment	0,32	mg/kg/d

Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers			Effects on workers				
	Acute	Acute	Chronic	Chronic	Acute	Chronic	Chronic	
	local	systemic	local	systemic	local	systemic	local	systemic
Oral				6,25				
				mg/kg bw/d				
Inhalation					101,2		67,5	
					mg/m ³		mg/m ³	

Sodium Decyl Sulfate
Predicted no-effect concentration - PNEC

Normal value in fresh water	0,095	mg/l
Normal value in marine water	0,009	mg/l
Normal value for fresh water sediment	1,5	mg/kg
Normal value for marine water sediment	0,15	mg/kg
Normal value for water, intermittent release	0,086	mg/l
Normal value of STP microorganisms	1,35	mg/l
Normal value for the terrestrial compartment	0,244	mg/kg

Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers			Effects on workers				
	Acute	Acute	Chronic	Chronic	Acute	Chronic	Chronic	
	local	systemic	local	systemic	local	systemic	local	systemic
Oral				24				
				mg/kg bw/d				
Inhalation				85			285	
				mg/m ³			mg/m ³	
Skin				2440			4060	
				mg/kg bw/d			mg/kg bw/d	

1-tetradecanol
Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m ³	ppm	mg/m ³	ppm	
AGW	DEU	178	20			

Predicted no-effect concentration - PNEC

Normal value in fresh water	0,001	mg/l
Normal value in marine water	0	mg/l
Normal value for fresh water sediment	2,14	mg/kg
Normal value for marine water sediment	0,214	mg/kg
Normal value for the terrestrial compartment	0,428	mg/kg

Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers			Effects on workers				
	Acute	Acute	Chronic	Chronic	Acute	Chronic	Chronic	
	local	systemic	local	systemic	local	systemic	local	systemic
Oral							44,4	
							mg/kg bw/d	
Inhalation				77		178	313	
				mg/m ³		mg/m ³	mg/m ³	
Skin				44,4			89	
				mg/kg bw/d			mg/kg bw/d	

SECTION 8. Exposure controls/personal protection ... / >>
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 ; LOW = low hazard ; MED = medium hazard ; HIGH = high hazard.

8.2. Exposure controls

Comply with the safety measures usually applied when handling chemical substances.

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.

SKIN PROTECTION

Wear category III 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.

It is advisable to wear a hooded visor or protective visor combined with airtight glasses in case splashing is expected (ref. Standard EN166).

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 is not normally required. In any case, avoid inhalation of vapors, aerosols and gases. Use self-contained breathing apparatus or masks with filter type "A" during emergency operations. EN 141 gas / vapor filters. A respirator is not required under normal conditions of use and under the conditions for using the product. In case of insufficient ventilation and / or in the case of short or minimal exposure use the mask, wear an appropriate respirator (with filter type "A").

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.

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

Properties	Value	Information
Appearance	liquid	
Colour	pink	
Odour	odourless	
Melting point / freezing point	~ 0 °C	
Initial boiling point	> 100 °C	
Flammability	not flammable	
Lower explosive limit	not applicable	Remark:Parameter not relevant for the type of product
Upper explosive limit	not applicable	Remark:Parameter not relevant for the type of product
Flash point	> 61 °C	Method:ASTM D 3278
Auto-ignition temperature	not applicable	Reason for missing data:Data not available in literature
Decomposition temperature	not applicable	Reason for missing data:Not determined for the mixture
pH	7	Temperature: 20 °C
Kinematic viscosity	10-20 mmm ² /s	Temperature: 20 °C
Dynamic viscosity	10-20 cP	Temperature: 20 °C
Solubility	Completely miscible in water	
Partition coefficient: n-octanol/water	not applicable	Reason for missing data:Not determined for the mixture
Vapour pressure	2,9 Pa	Substance:2-(2-BUTOXYETHOXY)ETHANOL
Density and/or relative density	1,025 g/cm ³	Temperature: 25 °C
Relative vapour density	not available	Temperature: 20 °C
Particle characteristics	not applicable	

SECTION 9. Physical and chemical properties ... / >>**9.2. Other information**

9.2.1. Information with regard to physical hazard classes

Information not available

9.2.2. Other safety characteristics

Total solids (105°C / 221°F)	20,00 %	Temperature: 105 °C
VOC (Directive 2010/75/EU)	8,89 % - 91,10	g/litre
Explosive properties	not explosive	
Oxidising properties	not oxidizing	

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

Based on the chemical 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.

10.2. Chemical stability

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

10.3. Possibility of hazardous reactions

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

2-(2-BUTOXYETHOXY)ETHANOL

May form peroxides with: oxygen.

May react with: oxidising agents.

Develops hydrogen on contact with: aluminium.

May form explosive mixtures with: air.

10.4. Conditions to avoid

None in particular. However, follow the usual precautions against chemical products.

10.5. Incompatible materials

None known.

10.6. Hazardous decomposition products

None known.

SECTION 11. Toxicological information**11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008**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

SECTION 11. Toxicological information ... / >>

ATE (Inhalation) of the mixture: Not classified (no significant component)
ATE (Oral) of the mixture: >2000 mg/kg
ATE (Dermal) of the mixture: Not classified (no significant component)

ALLCOLI C12-14 Etoxylated 1-2.5 Mol, sulphate, sodium salts

LD50 (Dermal): > 2000 mg/kg ratto
LD50 (Oral): 2870 mg/kg ratto

2-(2-BUTOXYETHOXY)ETHANOL

LD50 (Dermal): 2764 mg/kg coniglio
LD50 (Oral): 2410 mg/kg topo a digiuno
LC50 (Inhalation vapours): > 29 ppm/2h ratto

Sodium Decyl Sulfate

LD50 (Dermal): > 2000 mg/kg coniglio
LD50 (Oral): 1200 mg/kg ratto

1-tetradecanol

LD50 (Dermal): 8000 mg/kg coniglio
LD50 (Oral): > 2000 mg/kg ratto
LC50 (Inhalation vapours): > 0,375 mg//4h ratto

SKIN CORROSION / IRRITATION

Causes skin irritation

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

11.2. Information on other hazards

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with human health effects under evaluation.

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

SECTION 12. Ecological information ... / >>

ALLCOLI C12-14 Etoxylated 1-2.5 Mol, sulphate, sodium salts	
LC50 - for Fish	7,1 mg/l/96h Danio rerio
EC50 - for Crustacea	7,4 mg/l/48h Daphnia magna
EC50 - for Algae / Aquatic Plants	27,7 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
2-(2-BUTOXYETHOXY)ETHANOL	
LC50 - for Fish	1300 mg/l/96h lepomis macrochirus
EC50 - for Crustacea	> 100 mg/l/48h Daphnia magna
EC50 - for Algae / Aquatic Plants	1101 mg/l/72h Pseudokirchneriella subcapitata
Sodium Decyl Sulfate	
LC50 - for Fish	13 mg/l/48h Cyprinus carpio
EC50 - for Crustacea	> 100 mg/l/48h Daphnia magna
EC50 - for Algae / Aquatic Plants	8,64 mg/l/72h Pseudokirchneriella subcapitata
EC10 for Algae / Aquatic Plants	0,955 mg/l/72h Pseudokirchneriella subcapitata
Chronic NOEC for Fish	1,357 mg/l imephales promelas
Chronic NOEC for Crustacea	1,4 mg/l Daphnia magna
1-tetradecanol	
LC50 - for Fish	> 1 mg/l/96h Oncorhynchus mykiss
EC50 - for Crustacea	3,2 mg/l/48h Daphnia magna
EC50 - for Algae / Aquatic Plants	> 10 mg/l/96h S. subspicatus
EC10 for Crustacea	0,006 mg/l/21d Daphnia magna

12.2. Persistence and degradability

ALLCOLI C12-14 Etoxylated 1-2.5 Mol, sulphate, sodium salts	
Solubility in water	280 g/l 20°C
Rapidly degradable	OECD 301D
2-(2-BUTOXYETHOXY)ETHANOL	
Solubility in water	1000 g/l 20°C
Rapidly degradable	87-93% 28dd - OECD301C
Sodium Decyl Sulfate	
Solubility in water	> 330 g/l 20°C, pH 10,5
Rapidly degradable	OECD SIDS 2007
1-tetradecanol	
Solubility in water	1,3 mg/l 23°C, pH 5,5
Rapidly degradable	OECD 301B

12.3. Bioaccumulative potential

ALLCOLI C12-14 Etoxylated 1-2.5 Mol, sulphate, sodium salts	
Partition coefficient: n-octanol/water	0,3 LogKow 23°C, pH 6,1
2-(2-BUTOXYETHOXY)ETHANOL	
Partition coefficient: n-octanol/water	1 Log Kow 20°C
Sodium Decyl Sulfate	
Partition coefficient: n-octanol/water	1,72 LogKow 25°C, pH 7,9
1-tetradecanol	
Partition coefficient: n-octanol/water	5,5 LogKow

12.4. Mobility in soil

ALLCOLI C12-14 Etoxylated 1-2.5 Mol, sulphate, sodium salts	
Partition coefficient: soil/water	191 l/kg Koc
2-(2-BUTOXYETHOXY)ETHANOL	
Partition coefficient: soil/water	2

SECTION 15. Regulatory information ... / >>

Point	3	
<u>Contained substance</u>		
Point	75	
Point	55	2-(2-BUTOXYETHOXY)ETHANOL REACH Reg.: 01-2119475104-44

Regulation (EU) 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 Regulation (EU) 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-(2-BUTOXYETHOXY)ETHANOL

SECTION 16. Other information

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

Acute Tox. 4	Acute toxicity, category 4
Eye Dam. 1	Serious eye damage, category 1
Eye Irrit. 2	Eye irritation, category 2
Skin Irrit. 2	Skin irritation, category 2
Aquatic Chronic 1	Hazardous to the aquatic environment, chronic toxicity, category 1
Aquatic Chronic 3	Hazardous to the aquatic environment, chronic toxicity, category 3
H302	Harmful if swallowed.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- ATE: Acute Toxicity Estimate
- CAS: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE: Identifier in ESIS (European archive of existing substances)
- CLP: Regulation (EC) 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: 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

SECTION 16. Other information ... / >>

- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: Regulation (EC) 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: Time-weighted average exposure limit
- TWA STEL: Short-term 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) 2020/878 (II Annex of REACH Regulation)
 4. Regulation (EC) 790/2009 (I Atp. CLP) 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) 2019/521 (XII Atp. CLP)
 16. Delegated Regulation (UE) 2018/1480 (XIII Atp. CLP)
 17. Regulation (EU) 2019/1148
 18. Delegated Regulation (UE) 2020/217 (XIV Atp. CLP)
 19. Delegated Regulation (UE) 2020/1182 (XV Atp. CLP)
 20. Delegated Regulation (UE) 2021/643 (XVI Atp. CLP)
 21. Delegated Regulation (UE) 2021/849 (XVII Atp. CLP)
 22. Delegated Regulation (UE) 2022/692 (XVIII 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.

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.

Changes to previous review:

The following sections were modified:

02 / 11.

Exposure Scenarios

Product	SCHIUMOGENO CONCENTRATO
Scenario Title	BUTILDIGLICHE
Revision nr.	1
File	EN_2516_1.pdf