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:	**061DAUS - 061DAUS0001- 061DAUS0005- 061DAUS0025 – 061DAUS0200**
Product name	**ULTRA STRIPPER**
UFI :	**HC00-Y0WQ-Y004-95NX**

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

Intended use: **Concentrated wax remover with deep cleansing action to removel old wax layers and heavy dirt from floors and vertical surfaces**

Identified Uses	Industrial	Professional	Consumer
Wax remover, detergent	-	PC: 35. LCS: PW.	-

1.3. Details of the supplier of the safety data sheet

Name	**BELLINZONI S.R.L.**
Full address	**Via Mezzano 64**
District and Country	**28069 Trecate (NO)** **Italia**
	Tel. +39 0321 770558 - +39 02 33912133
	Fax +39 02-33915224
e-mail address of the competent person	
responsible for the Safety Data Sheet	**laboratorio@bellinzoni.com**
Product distribution by:	**BELLINZONI S.r.l.**

1.4. Emergency telephone number

For urgent inquiries refer to: **E.U.: Centro Antiveleni - Ospedale di Niguarda - Milano - Tel. +39 0266101029**

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:

Substance or mixture corrosive to metals, category 1	H290	May be corrosive to metals.
Acute toxicity, category 4	H302	Harmful if swallowed.
Skin corrosion, category 1B	H314	Causes severe skin burns and eye damage.
Serious eye damage, category 1	H318	Causes serious eye damage.
Specific target organ toxicity - single exposure, category 3	H335	May cause respiratory irritation.

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:

H290	May be corrosive to metals.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H335	May cause respiratory irritation.
EUH210	Safety data sheet available on request.

Precautionary statements:

P260	Do not breathe dust / fume / gas / mist / vapours / spray.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P280	Wear protective gloves/ protective clothing / eye protection / face protection.
P310	Immediately call a POISON CENTER / doctor / . . .
P264	Wash your hands thoroughly after use.
P102	Keep out of reach of children.

Contains:	SODIUM METASILICATE 2-aminoethanol 2-BUTOXYETHANOL Benzylic alchool
Less than 5%	anionic surfactants, non-ionic surfactants, soap

Colouring agent

2.3. Other hazards

On the basis of available data, the product does not contain any PBT or vPvB in percentage ≥ 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)
2-aminoethanol		
CAS 141-43-5 EC 205-483-3 INDEX 603-030-00-8 Reg. no. 01-2119486455-28	12 ≤ x < 14	Acute Tox. 4 H302, Acute Tox. 4 H312, Acute Tox. 4 H332, Skin Corr. 1B H314, Eye Dam. 1 H318, STOT SE 3 H335, Aquatic Chronic 3 H412
2-BUTOXYETHANOL		
CAS 111-76-2 EC 203-905-0 INDEX 603-014-00-0 Reg. no. 01-2119475108-36	12 ≤ x < 14	Acute Tox. 4 H302, Acute Tox. 4 H312, Acute Tox. 4 H332, Eye Irrit. 2 H319, Skin Irrit. 2 H315
Benzylic alchool		
CAS 100-51-6 EC 202-859-9 INDEX 603-057-00-5 Reg. no. 01-2119492630-38	5 ≤ x < 6	Acute Tox. 4 H302, Acute Tox. 4 H332, Eye Irrit. 2 H319
SODIUM METASILICATE		
CAS 10213-79-3 EC 229-912-9 INDEX - Reg. no. 01-2119449811-37-XXXX	4 ≤ x < 5	Met. Corr. 1 H290, Skin Corr. 1B H314, Eye Dam. 1 H318, STOT SE 3 H335
Sodium p-cumenesulphonate		
CAS 15763-76-5 EC INDEX - Reg. no. 01-2119489411-37-0004	3 ≤ x < 4	Eye Irrit. 2 H319
Sulfuric acid, mono-C12-14-alkyl esters, sodium salts		
CAS 85586-07-8 EC 287-809-4 INDEX - Reg. no. 01-2119489463-28-xxxx	2 ≤ x < 3	Acute Tox. 4 H302, Eye Dam. 1 H318, Skin Irrit. 2 H315, Aquatic Chronic 3 H412
Fatty acid-K C12-18		
CAS 61789-30-8 EC 263-049-9 INDEX -	2 ≤ x < 3	Eye Irrit. 2 H319, Skin Irrit. 2 H315
Poly(oxy-1,2-ethanediyl),.alpha.-hexyl-.omega.-hydroxy-		
CAS 31726-34-8	1 ≤ x < 2	Acute Tox. 4 H302, Eye Dam. 1 H318

EC

INDEX -

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 30-60 minutes, opening the eyelids fully. Get medical advice/attention.
SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention.
INGESTION: Have the subject drink as much water as possible. Get medical advice/attention. Do not induce vomiting unless explicitly authorised by a doctor.
INHALATION: Get medical advice/attention immediately. Remove victim to fresh air, away from the accident scene. If the subject stops breathing, administer artificial respiration. Take suitable precautions for rescue workers.

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

Specific information on symptoms and effects caused by the product are unknown.

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

Information not available

SECTION 5. Firefighting measures

5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT
The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray.
UNSUITABLE EXTINGUISHING EQUIPMENT
None in particular.

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

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.

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

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)

Information not available

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Regulatory References:

BGR	България	МИНИСТЕРСТВО НА ТРУДА И СОЦИАЛНАТА ПОЛИТИКА МИНИСТЕРСТВО НА ЗДРАВЕОПАЗВАНЕТО НАРЕДБА No 13 от 30 декември 2003 г (4 Септември 2018г)
CZE	Česká Republika	Nařízení vlády č. 246/2018 Sb. Nařízení vlády, kterým se mění nařízení vlády č. 361/2007 Sb., kterým se stanoví podmínky ochrany zdraví při práci, ve znění pozdějších předpisů
DEU	Deutschland	TRGS 900 - Seite 1 von 69 (Fassung 29.03.2019)- Liste der Arbeitsplatzgrenzwerte und Kurzzeitwerte
DNK	Danmark	Bekendtgørelse om grænseværdier for stoffer og materialer - BEK nr 1458 af 13/12/2019
ESP	España	LÍMITES DE EXPOSICIÓN PROFESIONAL PARA AGENTES QUÍMICOS EN ESPAÑA 2019 (INSST)
FRA	France	Valeurs limites d'exposition professionnelle aux agents chimiques en France. ED 984 - INRS
GRC	Ελλάδα	ΕΦΗΜΕΡΙΔΑ ΤΗΣ ΚΥΒΕΡΝΗΣΕΩΣ - ΤΕΥΧΟΣ ΠΡΩΤΟ Αρ. Φύλλου 152 - 21 Αυγούστου 2018
ITA	Italia	Decreto Legislativo 9 Aprile 2008, n.81
NLD	Nederland	Regeling van de Staatssecretaris van Sociale Zaken en Werkgelegenheid van 13 juli 2018, 2018-0000118517 tot wijziging van de Arbeidsomstandighedenregeling in verband met de implementatie van Richtlijn 2017/164 in Bijlage XIII
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, 1.ª série - N.º 111 - 11 de junho de 2018
POL	Polska	ROZPORZĄDZENIE MINISTRA RODZINY, PRACY I POLITYKI SPOŁECZNEJ z dnia 12 czerwca 2018 r
ROU	România	HOTĂRÂRE nr. 584 din 2 august 2018 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
SWE	Sverige	Hygieniska gränsvärden, AFS 2018:1
GBR	United Kingdom	EH40/2005 Workplace exposure limits (Third edition, published 2018)
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 2019

2-aminoethanol

Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		Remarks / Observations	
		mg/m3	ppm	mg/m3	ppm		
TLV	BGR	2,5	1	7,6	3	SKIN	
TLV	CZE	2,5	1,0025	7,5	3,0075		
AGW	DEU	0,5	0,2	0,5	0,2	SKIN	
MAK	DEU	0,51	0,2	0,51	0,2		
TLV	DNK	2,5	1			SKIN	E
VLA	ESP	2,5	1	7,5	3	SKIN	
VLEP	FRA	2,5	1	7,6	3	SKIN	
TLV	GRC	2,5	1	7,6	3		
VLEP	ITA	2,5	1	7,6	3	SKIN	
TGG	NLD	2,5		7,6		SKIN	
VLE	PRT	2,5	1	7,6	3	SKIN	
NDS/NDSCh	POL	2,5		7,5		SKIN	
TLV	ROU	2,5	1	7,6	3	SKIN	
NGV/KGV	SWE	2,5	1	7,5	3	SKIN	
WEL	GBR	2,5	1	7,6	3	SKIN	
OEL	EU	2,5	1	7,6	3	SKIN	
TLV-ACGIH		7,5	3	15	6		

Predicted no-effect concentration - PNEC		
Normal value in fresh water	85	mg/l
Normal value in marine water	9	mg/l
Normal value for fresh water sediment	434	mg/kg/d
Normal value for marine water sediment	43	mg/kg/d
Normal value for water, intermittent release	2	mg/l
Normal value of STP microorganisms	100	mg/l
Normal value for the terrestrial compartment	37	mg/kg/d

Health - Derived no-effect level - DNEL / DMEL

	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				3.75 mg/kg bw/d				
Inhalation			2 mg/m3				3.3 mg/m3	

Skin	0.24 mg/kg bw/d	1 mg/kg bw/d

2-BUTOXYETHANOL

Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		Remarks / Observations	
		mg/m3	ppm	mg/m3	ppm		
TLV	BGR	98	20	246	50	SKIN	
TLV	CZE	100	20,7	200	41,4	SKIN	
AGW	DEU	49	10	98 (C)	20 (C)	SKIN	
MAK	DEU	49	10	98	20	SKIN	Hinweis
TLV	DNK	98	20			SKIN	E
VLA	ESP	98	20	245	50	SKIN	
VLEP	FRA	49	10	246	50	SKIN	
TLV	GRC	120	25				
VLEP	ITA	98	20	246	50	SKIN	
TGG	NLD	100		246		SKIN	
VLE	PRT	98	20	246	50	SKIN	
NDS/NDSCh	POL	98		200		SKIN	
TLV	ROU	98	20	246	50	SKIN	
NGV/KGV	SWE	50	10	246	50	SKIN	
WEL	GBR	123	25	246	50	SKIN	
OEL	EU	98	20	246	50	SKIN	
TLV-ACGIH		97	20				

Predicted no-effect concentration - PNEC		
Normal value in fresh water	88	mg/l
Normal value in marine water	88	mg/l
Normal value for fresh water sediment	346	mg/kg
Normal value for marine water sediment	346	mg/kg
Normal value for water, intermittent release	91	mg/l
Normal value of STP microorganisms	463	mg/l
Normal value for the food chain (secondary poisoning)	2	g/kg
Normal value for the terrestrial compartment	233	mg/kg

Health - Derived no-effect level - DNEL / DMEL

	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	26.7 mg/kg bw/d			6.3 mg/kg bw/d				
Inhalation	147 mg/m3	426 mg/m3		59 mg/m3	246 mg/m3	1091 mg/m3		98 mg/m3
Skin	89 mg/kg bw/d			75 mg/kg bw/d		89 mg/kg bw/d		125 mg/kg bw/d

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Threshold Limit Value

Type	Country	TWA/8h	STEL/15min	Remarks / Observations

		mg/m3	ppm	mg/m3	ppm		
TLV	BGR	5					
TLV	CZE	40	9,04	80	18,08		
AGW	DEU	22	5	44	10	SKIN	11
NDS/NDSCh	POL	240					

Predicted no-effect concentration - PNEC		
Normal value in fresh water	1	mg/l
Normal value in marine water	1	mg/l
Normal value for fresh water sediment	527	mg/kg
Normal value for marine water sediment	527	mg/kg
Normal value for water, intermittent release	23	mg/l
Normal value of STP microorganisms	39	mg/l
Normal value for the terrestrial compartment	45	mg/kg

Health - Derived no-effect level - DNEL / DMEL

	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		20 mg/kg bw/d		4 mg/kg bw/d				
Inhalation		27 mg/m3		5,4 mg/m3		110 mg/m3		22 mg/m3
Skin		20 mg/kg bw/d		4 mg/kg bw/d		40 mg/kg bw/d		8 mg/kg bw/d

SODIUM METASILICATE

Predicted no-effect concentration - PNEC		
Normal value in fresh water	75	mg/l
Normal value in marine water	1	mg/l
Normal value for water, intermittent release	75	mg/l
Normal value of STP microorganisms	1000	mg/l

Health - Derived no-effect level - DNEL / DMEL

	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				0.74 mg/kg bw/d				
Inhalation				1.55 mg/m3				6.22 mg/m3
Skin				0.74 mg/kg bw/d				1.49 mg/kg bw/d

Sodium p-cumenesulphonate

Predicted no-effect concentration - PNEC		
Normal value in fresh water	23	mg/l
Normal value for water, intermittent release	23	mg/l
Normal value of STP microorganisms	100	mg/l

Health - Derived no-effect level - DNEL / DMEL

	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								3.8 mg/kg bw/d

Inhalation	13.2 mg/m3	53.6 mg/m3
Skin	3.8 mg/kg bw/d	7.6 mg/kg bw/d

Sulfuric acid, mono-C12-14-alkyl esters, sodium salts

Predicted no-effect concentration - PNEC		
Normal value in fresh water	131	mg/l
Normal value in marine water	13	mg/l
Normal value for marine water sediment	461	mg/kg
Normal value for the terrestrial compartment	846	mg/kg

Health - Derived no-effect level - DNEL / DMEL

	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				24 mg/kg bw/d				
Inhalation				85 mg/m3				285 mg/m3
Skin				2440 mg/kg bw/d				4060 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 II 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.

EYE PROTECTION
Wear airtight protective 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
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.

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	liquid
Colour	yellow
Odour	characteristic
Odour threshold	Not available
pH	13.00
Melting point / freezing point	Not available
Initial boiling point	Not available
Boiling range	Not available
Flash point	> 60 °C
Evaporation Rate	Not available
Flammability of solids and gases	not applicable
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	1042 - 1082 g/l
Solubility	soluble in water
Partition coefficient: n-octanol/water	Not available
Auto-ignition temperature	Not available
Decomposition temperature	Not applicable
Viscosity	Not applicable
Explosive properties	not explosive
Oxidising properties	non oxidizing

9.2. Other information

VOC (Directive 2010/75/EC) :	27,20 % - 288,86 g/litre
VOC (volatile carbon) :	13,58 % - 144,23 g/litre
% Theoretical dry matter T = 105°C	15,00 ± 2.00
% Active matter	47.00 ± 2,00

SECTION 10. Stability and reactivity

10.1. Reactivity

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

2-BUTOXYETHANOL

Decomposes under the effect of heat.

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Decomposes at temperatures above 870°C/1598°F.Possibility of explosion.

SODIUM METASILICATE

The aqueous solutions act as: strong bases.Corrodes: aluminium,zinc,tin,aluminium alloys,zinc alloys,tin alloys.

10.2. Chemical stability

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

10.3. Possibility of hazardous reactions

No hazardous reactions are foreseeable in normal conditions of use and storage.

2-aminoethanol

May react dangerously with: acrylonitrile,chloroepoxypropane,chlorosulphuric acid,hydrogen chloride,iron-sulphur compounds,acetic acid,acetic anhydride,mesityl oxide,nitric acid,sulphuric acid,strong acids,vinyl acetate,cellulose nitrate.

2-BUTOXYETHANOL

May react dangerously with: aluminium,oxidising agents.Forms peroxides with: air.

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May react dangerously with: hydrobromic acid,iron,oxidising agents,sulphuric acid.Risk of explosion on contact with: phosphorus trichloride.

SODIUM METASILICATE

Reacts violently with: acids.

10.4. Conditions to avoid

None in particular. However the usual precautions used for chemical products should be respected.

2-aminoethanol

Avoid exposure to: air,sources of heat.

2-BUTOXYETHANOL

Avoid exposure to: sources of heat,naked flames.

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

10.5. Incompatible materials

2-aminoethanol

Incompatible with: iron,strong acids,strong oxidants.

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Incompatible with: sulphuric acid,oxidising substances,aluminium.

10.6. Hazardous decomposition products

2-aminoethanol

May develop: nitric oxide,carbon oxides.

2-BUTOXYETHANOL

May develop: hydrogen.

SECTION 11. Toxicological information

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:
1239,70 mg/kg
ATE (Dermal) of the mixture:
>2000 mg/kg

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LD50 (Oral) 1620 mg/kg dw ratto (maschio)

LD50 (Dermal) 2000 mg/kg dw coniglio

LC50 (Inhalation) > 4178 mg/l/4h ratto (OCSE 403)

SODIUM METASILICATE

LD50 (Oral) 1152 mg/kg ratto

LD50 (Dermal) > 5000 mg/kg/bw ratto

LC50 (Inhalation) > 206 g/m3 ratto

2-BUTOXYETHANOL

LD50 (Oral) 1746 mg/kg bw/day ratto maschio (OCSE 401)

LD50 (Dermal) > 2000 mg/kg bw/day ratto (OECD 402)

LC50 (Inhalation) 2,2 mg/l/4h Rat

2-aminoethanol

LD50 (Oral) 1089 mg/kg bw/day ratto (OCSE 401)

LD50 (Dermal) 2504 mg/kg bw/day coniglio (OCSE 402)

LC50 (Inhalation) > 13 mg/l/6h ratto

Sodium p-cumenesulphonate

LD50 (Oral) > 7000 mg/kg ratto

LD50 (Dermal) > 2000 mg/kg coniglio

LC50 (Inhalation) > 641 mg/l/4h ratto

Poly(oxy-1,2-ethanediyl),.alpha.-hexyl-.omega.-hydroxy-

LD50 (Oral) > 300 mg/kg ratto (OECD-Linea guida 423)

LD50 (Dermal) > 2000 mg/kg ratto (OECD - linea guida 402)

Fatty acid-K C12-18

LD50 (Oral) > 2000 mg/kg

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

May cause respiratory irritation

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

Use this product according to good working practices. Avoid littering. Inform the competent authorities, should the product reach waterways or contaminate soil or vegetation.

12.1. Toxicity

Benzylic alchool	
LC50 - for Fish	460 mg/l/96h Pimephales promelas
EC50 - for Crustacea	230 mg/l/48h Daphnia magna (OCSE 202)
EC50 - for Algae / Aquatic Plants	770 mg/l/72h Pseudokirchneriella subcapitata (OCSE 201)
Chronic NOEC for Crustacea	51 mg/l 21d Daphnia magna (OCSE 211)
SODIUM METASILICATE	
LC50 - for Fish	210 mg/l/96h brachydanio rerio
EC50 - for Crustacea	1700 mg/l/48h Daphnia magna
2-BUTOXYETHANOL	
LC50 - for Fish	1474 mg/l/96h Oncorhynchus mykiss (OECD 203)
EC50 - for Crustacea	1550 mg/l/48h Daphnia magna (OECD 202)
EC50 - for Algae / Aquatic Plants	911 mg/l/72h Pseudokirchneriella subcapitata (OECD 201)
Chronic NOEC for Fish	> 100 mg/l 21d Brachydanio rerio (OECD 204)
2-aminoethanol	
LC50 - for Fish	349 mg/l/96h Cyprinus carpio
EC50 - for Crustacea	65 mg/l/48h Daphnia magna
EC50 - for Algae / Aquatic Plants	28 mg/l/72h Pseudokirchneriella subcapitata (OCSE 201)
Chronic NOEC for Fish	124 mg/l Oryzias latipes (OCSE 210)
Chronic NOEC for Crustacea	85 mg/l 21d Daphnia magna
Sodium p-cumenesulphonate	
LC50 - for Fish	1000 mg/l/96h Oncorhynchus mykiss (EPA OTS 797.1400)
EC50 - for Crustacea	1000 mg/l/48h Daphnia Magna (EPA OTS 797.1300)
EC50 - for Algae / Aquatic Plants	> 230 mg/l/96h Selenastrum capricornutum (EPA OTS 797.1050)
Chronic NOEC for Algae / Aquatic Plants	31 mg/l/96h Selenastrum capricornutum (EPA OTS 797.1050)
Poly(oxy-1,2-ethanediyl),.alpha.-hexyl-.omega.-hydroxy-	
LC50 - for Fish	> 100 mg/l/96h Brachydanio rerio (OECD 203; ISO 7346; 84/449/CEE, C.1)
EC50 - for Crustacea	> 100 mg/l/48h Daphnia magna (OECD - linea guida 202, parte 1)
EC50 - for Algae / Aquatic Plants	> 100 mg/l/72h Scenedesmus subspicatus (Direttiva 92/69/CEE, C.3)
EC10 for Algae / Aquatic Plants	> 100 mg/l/72h Scenedesmus subspicatus (Direttiva 92/69/CEE, C.3)
Fatty acid-K C12-18	
LC50 - for Fish	> 1 mg/l/96h

EC50 - for Crustacea	> 1 mg/l/48h
EC50 - for Algae / Aquatic Plants	> 1 mg/l/72h

Sulfuric acid, mono-C12-14-alkyl esters, sodium salts

LC50 - for Fish	36 mg/l/96h OECD 203
EC50 - for Crustacea	47 mg/l/48h Dafnie (EG/92/69/EWG)
EC50 - for Algae / Aquatic Plants	> 20 mg/l/72h UE EC C.3
Chronic NOEC for Fish	1357 mg/l Durata h: 1008 - Read across
Chronic NOEC for Algae / Aquatic Plants	6 mg/l/72h UE EC C.3

12.2. Persistence and degradability

Benzylic alchool

Rapidly degradable

SODIUM METASILICATE

Rapidly degradable

2-BUTOXYETHANOL

Rapidly degradable

2-aminoethanol

Solubility in water	1000 g/l

Rapidly degradable

Sodium p-cumenesulphonate

Rapidly degradable

Poly(oxy-1,2-ethanediyl),.alpha.-hexyl-.omega.-hydroxy-

Rapidly degradable

Fatty acid-K C12-18

Rapidly degradable

Sulfuric acid, mono-C12-14-alkyl esters, sodium salts

Rapidly degradable

12.3. Bioaccumulative potential

Benzylic alchool

Partition coefficient: n-octanol/water	1,05

2-BUTOXYETHANOL

Partition coefficient: n-octanol/water	0,81

2-aminoethanol	
Partition coefficient: n-octanol/water	-1,91
Sodium p-cumenesulphonate	
Partition coefficient: n-octanol/water	-3,12
BCF	< 2,3

12.4. Mobility in soil

2-aminoethanol	
Partition coefficient: soil/water	-0,78

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 ≥ 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:	1719

14.2. UN proper shipping name

ADR / RID:	CAUSTIC ALKALI LIQUID, N.O.S.
IMDG:	CAUSTIC ALKALI LIQUID, N.O.S.
IATA:	CAUSTIC ALKALI LIQUID, 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, IATA:	II

14.5. Environmental hazards

ADR / RID:	NO
IMDG:	NO
IATA:	NO

14.6. Special precautions for user

ADR / RID:	HIN - Kemler: 80	Limited Quantities: 1 L	Tunnel restriction code: (E)
	Special Provision: -		
IMDG:	EMS: F-A, S-B	Limited Quantities: 1 L	
IATA:	Cargo:	Maximum quantity: 30 L	Packaging instructions: 855
	Pass.:	Maximum quantity: 1 L	Packaging instructions: 851
	Special Instructions:	A3, A803	

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

Substances in Candidate List (Art. 59 REACH)

On the basis of available data, the product does not contain any SVHC in percentage ≥ 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.

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

2-aminoethanol

2-BUTOXYETHANOL

Benzylic alchool

SODIUM METASILICATE

Sodium p-cumenesulphonate

Sulfuric acid, mono-C12-14-alkyl esters, sodium salts

Fatty acid-K C12-18

Poly(oxy-1,2-ethanediyl),.alpha.-hexyl-.omega.-hydroxy-

SECTION 16. Other information

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

Met. Corr. 1	Substance or mixture corrosive to metals, category 1
Acute Tox. 4	Acute toxicity, category 4
Skin Corr. 1B	Skin corrosion, category 1B
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 3	Hazardous to the aquatic environment, chronic toxicity, category 3
H290	May be corrosive to metals.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H332	Harmful if inhaled.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H335	May cause respiratory irritation.
H412	Harmful to aquatic life with long lasting effects.
EUH210	Safety data sheet available on request.

Use descriptor system:

LCS	**PW**	Widespread use by professional workers
PC	**35**	Washing and cleaning products

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)
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14. Regulation (EU) 2018/669 (XI Atp. CLP)
15. Regulation (EU) 2018/1480 (XIII Atp. CLP)
16. Regulation (EU) 2019/521 (XII 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:
01 / 02 / 11 / 12 / 15 / 16.