according to Regulation (EC) No 1907/2006

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

# 1.1. Product identifier

Indumaster® Strong

UFI:

## UY60-50QR-H00C-ED9M

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

### Use of the substance/mixture

EuPCS: PC-CLN-2 All-purpose (or multi-purpose) non-abrasive cleaners, PC-CLN-13.1 Floor cleaning products Process categories [PROC]: 8, 10, 11 Restricted to professional users.

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

Company name:	BUZIL-WERK Wagner GmbH & Co. KG	
Street:	Fraunhofer Str. 17	
Place:	D-87700 Memmingen	
Telephone:	+49 (0) 8331 930-6	Telefax: +49 (0) 8331 930-880
e-mail:	info@buzil.de	
Contact person:	info@buzil.de	
Internet:	www.buzil.com	
1.4. Emergency telephone	+49 (0) 8331 930-6 (08:00 - 16:00 h)	
numbor		

number:

**SECTION 2: Hazards identification** 

# 2.1. Classification of the substance or mixture

# Regulation (EC) No 1272/2008

Met. Corr. 1; H290 Skin Corr. 1; H314 Eye Dam. 1; H318

Full text of hazard statements: see SECTION 16.

# 2.2. Label elements

# Regulation (EC) No 1272/2008

## Hazard components for labelling

2-Aminoethanol

Signal word:

Pictograms:



Danger

#### Hazard statements

H290	May be corrosive to metals.
H314	Causes severe skin burns and eye damage.

# **Precautionary statements**

P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
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.



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Immediately call a POISON CENTER/doctor.

# 2.3. Other hazards

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII. The inhalation of dust/mist or aerosols causes irritation of the respiratory tract.

# **SECTION 3: Composition/information on ingredients**

#### 3.2. Mixtures

#### Hazardous components

CAS No	Chemical name	Quantity		
	EC No	Index No	REACH No	
	Classification (Regulation	(EC) No 1272/2008)		
112-34-5	2-(2-Butoxyethoxy)ethan	ol, Diethylene glycol monobutyl ethe	r	5 - < 10 %
	203-961-6	603-096-00-8	01-2119475104-44	
	Eye Irrit. 2; H319			
141-43-5	2-Aminoethanol			1 - < 5 %
	205-483-3	603-030-00-8	01-2119486455-28	
	Acute Tox. 4, Acute Tox. H335			
64-17-5	Ethanol	1 - < 5 %		
	200-578-6	603-002-00-5	01-2119457610-43	
	Flam. Liq. 2, Eye Irrit. 2; I			
68439-50-9	Alkyl polyethoxylate	1 - < 5 %		
	Acute Tox. 4, Eye Dam. <sup>2</sup>			
1310-58-3	Potassium hydroxide	< 1 %		
	215-181-3	019-002-00-8	01-2119487136-33	
	Met. Corr. 1, Acute Tox. 4			

Full text of H and EUH statements: see section 16.

#### Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
	Specific Conc.	Limits, M-factors and ATE	
112-34-5	203-961-6	2-(2-Butoxyethoxy)ethanol, Diethylene glycol monobutyl ether	5 - < 10 %
	inhalation: LC	50 = >20 mg/l (vapours); dermal: LD50 = >2000 mg/kg; oral: LD50 = >2000 mg/kg	
141-43-5	205-483-3	2-Aminoethanol	1 - < 5 %
		50 = 1487 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); dermal: ng/kg; oral: LD50 = 1089 mg/kg_STOT SE 3; H335: >= 5 - 100	
64-17-5	200-578-6	Ethanol	1 - < 5 %
	inhalation: LC Eye Irrit. 2; H3	50 = >20 mg/l (vapours); dermal: LD50 = >2000 mg/kg; oral: LD50 = >2000 mg/kg 19: >= 50 - 100	
68439-50-9		Alkyl polyethoxylate	1 - < 5 %
	inhalation: LC: mg/kg	50 = >5 mg/l (dusts or mists); dermal: LD50 = >2000 mg/kg; oral: LD50 = 500	
1310-58-3	215-181-3	Potassium hydroxide	< 1 %
		73 mg/kg Skin Corr. 1A; H314: >= 5 - 100 Skin Corr. 1B; H314: >= 2 - < 5 15: >= 0,5 - < 2 Eye Irrit. 2; H319: >= 0,5 - < 2	

Labelling for contents according to Regulation (EC) No 648/2004

< 5 % non-ionic surfactants, < 5 % phosphates, < 5 % amphoteric surfactants, < 5 % phosphonates, perfumes (Limonene, Hexyl cinnamal).

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# **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

#### **General information**

Remove contaminated, saturated clothing immediately.

#### After inhalation

Provide fresh air.

## After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Take off contaminated clothing and wash it before reuse.

#### After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water.

## After ingestion

Rinse mouth immediately and drink plenty of water. Do NOT induce vomiting.

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

No information available.

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

Treat symptomatically.

#### **SECTION 5: Firefighting measures**

## 5.1. Extinguishing media

#### Suitable extinguishing media

Water spray jet alcohol resistant foam Carbon dioxide Extinguishing powder

#### Unsuitable extinguishing media

Full water jet

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

Hazardous combustion products: Carbon dioxide Carbon monoxide

#### 5.3. Advice for firefighters

Co-ordinate fire-fighting measures to the fire surroundings.

#### Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

# **SECTION 6: Accidental release measures**

#### 6.1. Personal precautions, protective equipment and emergency procedures

#### General advice

Use personal protection equipment.

Avoid contact with skin, eyes and clothes.

# For non-emergency personnel

Ventilate affected area.

# For emergency responders

Wear breathing apparatus if exposed to vapours/dusts/aerosols.



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## 6.2. Environmental precautions

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

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

#### For containment

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

# For cleaning up

Treat the recovered material as prescribed in the section on waste disposal.

#### Other information

Collect in closed and suitable containers for disposal. Ventilate affected area.

# 6.4. Reference to other sections

Personal protection equipment: see section 8 Disposal: see section 13

#### **SECTION 7: Handling and storage**

## 7.1. Precautions for safe handling

#### Advice on safe handling

Avoid contact with skin, eyes and clothes. Do not mix with other chemicals. Use personal protection equipment. When using do not eat, drink or smoke. Use only in well-ventilated areas. Do not breathe gas/fumes/vapour/spray.

# Advice on protection against fire and explosion

No special fire protection measures are necessary.

#### Advice on general occupational hygiene

Take off contaminated clothing. Wash hands before breaks and after work. When using do not eat, drink or smoke.

#### Further information on handling

No further relevant information available.

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

# Requirements for storage rooms and vessels

Keep container tightly closed.

# Hints on joint storage

No special measures are necessary.

# Further information on storage conditions

No further relevant information available.

## 7.3. Specific end use(s)

Cleaning agent

#### **SECTION 8: Exposure controls/personal protection**

## 8.1. Control parameters

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# Occupational exposure limit values

CAS No	Name of agent	ppm	mg/m³	fib/cm³	Category	Origin
112-34-5	2-(2-Butoxyethoxy)ethanol	10	67.5		TWA (8 h)	
		15	101.2		STEL (15 min)	
141-43-5	2-Aminoethanol	1	2.5		TWA (8 h)	
		3	7.6		STEL (15 min)	

# Additional advice on limit values

No information available.

#### 8.2. Exposure controls



#### Appropriate engineering controls

No information available.

#### Individual protection measures, such as personal protective equipment

#### Eye/face protection

Wear eye/face protection. (EN 166)

#### Hand protection

Wear suitable gloves. (EN 374, Breakthrough time: >10 min.)

Suitable material: NBR (Nitrile rubber).

Thickness of the glove material >= 0,1 mm

A survey of suitable brands with detailed information on breakthrough times is available upon request.

Diluted ready-to-use solutions <=1%:

Protective gloves may be waived, if equivalent measures allowing for an increased skin stress because of wet work are implemented (e. g. application of suitable skin protecting creams).

#### Skin protection

Wear suitable work clothing.

### **Respiratory protection**

If extensively sprayed or used with high pressure equipment: combination filter A1/P2 (EN 143, EN 14387). Use only in well-ventilated areas.

In case of inadequate ventilation wear respiratory protection. (EN 14387, A1)

#### Thermal hazards

No further relevant information available.

#### **Environmental exposure controls**

Section 6: Accidental Release Measures

## **SECTION 9: Physical and chemical properties**

# 9.1. Information on basic physical and chemical properties

Physical state:	Liquid
Colour:	green
Odour:	Perfumes, fragrances

Melting point/freezing point: Boiling point or initial boiling point and boiling range: approx. 0 °C approx. 100 °C

Test method

according to Regulation (EC) No 1907/2006



#### Indumaster® Strong **IR45** Revision date: 27.04.2023 Page 6 of 12 Flammability: not applicable Lower explosion limits: not determined Upper explosion limits: not determined Flash point: > 60 °C Auto-ignition temperature: not determined Decomposition temperature: not applicable pH-Value (at 20 °C): approx. 13,5 Viscosity / kinematic: not determined (at 40 °C) Water solubility: completely miscible (at 20 °C) Solubility in other solvents not determined Partition coefficient n-octanol/water: not applicable Vapour pressure: not determined Density (at 20 °C): 1,04 g/cm<sup>3</sup> Relative density: not determined Relative vapour density: not determined Particle characteristics: not relevant 9.2. Other information Other safety characteristics Viscosity / dynamic: < 10 mPa·s (50 1/s) (at 25 °C)

No information available.

# **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

Corrosive to metals. Exothermic reaction with: Acid

#### 10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

## 10.3. Possibility of hazardous reactions

Corrosive to metals. Exothermic reaction with: Acid

#### 10.4. Conditions to avoid

The product is stable under storage at normal ambient temperatures.

#### 10.5. Incompatible materials

Corrosive to metals. Acid

# 10.6. Hazardous decomposition products

No known hazardous decomposition products.

# **SECTION 11: Toxicological information**

# 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### Acute toxicity

Based on available data, the classification criteria are not met.



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CAS No	Chemical name						
	Exposure route	Dose		Species	Source	Method	
112-34-5	2-(2-Butoxyethoxy)ethar	ol, Diethyle	ne glycol mon	obutyl ether			
	oral	LD50 mg/kg	>2000	Rat	ATE		
	dermal	LD50 mg/kg	>2000	Rat	ATE		
	inhalation vapour	LC50	>20 mg/l	Rat	ATE		
141-43-5	2-Aminoethanol						
	oral	LD50 mg/kg	1089	Rat	OECD 401		
	dermal	LD50 mg/kg	1025	Rabbit	IUCLID		
	inhalation (4 h) vapour	LC50	1487 mg/l	Rat			
	inhalation dust/mist	ATE	1,5 mg/l				
64-17-5	Ethanol						
	oral	LD50 mg/kg	>2000	Rat	ATE		
	dermal	LD50 mg/kg	>2000	Rat	ATE		
	inhalation (4 h) vapour	LC50	>20 mg/l	Rat	ATE		
68439-50-9	Alkyl polyethoxylate						
	oral	LD50 mg/kg	500	Rat	ATE		
	dermal	LD50 mg/kg	>2000	Rat	ATE		
	inhalation dust/mist	LC50	>5 mg/l	Rat	ATE		
1310-58-3	Potassium hydroxide						
	oral	LD50 mg/kg	273	Rat	RTECS		

#### Irritation and corrosivity

Causes severe skin burns and eye damage.

Causes serious eye damage.

# Sensitising effects

Based on available data, the classification criteria are not met.

## Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

#### STOT-single exposure

Based on available data, the classification criteria are not met.

#### STOT-repeated exposure

Based on available data, the classification criteria are not met.

# Aspiration hazard

Based on available data, the classification criteria are not met.

# 11.2. Information on other hazards

## Other information

No information available.

# **SECTION 12: Ecological information**

#### 12.1. Toxicity



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CAS No	Chemical name						
	Aquatic toxicity	Dose		[h]   [d]	Species	Source	Method
112-34-5	2-(2-Butoxyethoxy)ethance	l, Diethylen	e glycol mon	obutyl et	her		
	Acute fish toxicity	LC50 mg/l	2780	96 h	Pimephales promelas (fathead minnow)		
	Acute algae toxicity	ErC50 mg/l	> 100		Scenedesmus subspicatus		
	Acute crustacea toxicity	EC50 mg/l	4950	48 h	Daphnia magna (Big water flea)		
141-43-5	2-Aminoethanol						
	Acute fish toxicity	LC50	170 mg/l	96 h	Carassius auratus (goldfish)	APHA 1971	
	Acute algae toxicity	ErC50	22 mg/l	72 h	Scenedesmus subspicatus	EG 92/69	
	Acute crustacea toxicity	EC50	65 mg/l	48 h	Daphnia magna (Big water flea)		
	Fish toxicity	NOEC	1,2 mg/l	30 d	Oryzias latipes (Ricefish)		
	Crustacea toxicity	NOEC mg/l	0,85	21 d	Daphnia magna (Big water flea)	OECD 211	
64-17-5	Ethanol						
	Acute fish toxicity	LC50 mg/l	>1000	96 h			
	Acute algae toxicity	ErC50 mg/l	>100				
	Acute crustacea toxicity	EC50 mg/l	>1000	48 h	Daphnia magna	IUCLID	
68439-50-9	Alkyl polyethoxylate						
	Acute fish toxicity	LC50	>1 mg/l	96 h			
	Acute algae toxicity	ErC50	>1 mg/l				
	Acute crustacea toxicity	EC50	>1 mg/l	48 h			
1310-58-3	Potassium hydroxide						
	Acute fish toxicity	LC50	80 mg/l	96 h	Gambusia affinis (Mosquito fish)	IUCLID	

# 12.2. Persistence and degradability

The surfactants contained in this mixture comply with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents.



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CAS No	Chemical name					
	Method	Value	d	Source		
	Evaluation					
112-34-5	2-(2-Butoxyethoxy)ethanol, Diethylene glycol monobutyl ether					
	OECD 301	>60%	28			
	Readily biodegradable (according to OECD criteria).					
141-43-5	2-Aminoethanol					
	OECD 302A/ ISO 9887/ EEC 92/69/V, C.12	>90%	21			
	Readily biodegradable (according to OECD criteria).					
64-17-5	Ethanol					
	OECD 301	>60%	28			
	Readily biodegradable (according to OECD criteria).					
68439-50-9	Alkyl polyethoxylate					
	OECD 301	>60%	28			
	Readily biodegradable (according to OECD criteria).					

# 12.3. Bioaccumulative potential

No indication of bioaccumulation potential.

#### Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
112-34-5	2-(2-Butoxyethoxy)ethanol, Diethylene glycol monobutyl ether	0,56
141-43-5	2-Aminoethanol	-1,91
64-17-5	Ethanol	-0,31

# 12.4. Mobility in soil

The product has not been tested.

#### 12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

#### 12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

## 12.7. Other adverse effects

No information available.

# SECTION 13: Disposal considerations

# 13.1. Waste treatment methods

#### **Disposal recommendations**

Dispose of waste according to applicable legislation. Delivery to an approved waste disposal company.

# List of Wastes Code - residues/unused products

070601 WASTES FROM ORGANIC CHEMICAL PROCESSES; wastes from the MFSU of fats, grease, soaps, detergents, disinfectants and cosmetics; aqueous washing liquids and mother liquors; hazardous waste

## List of Wastes Code - contaminated packaging

150102 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); plastic packaging

# Contaminated packaging

Non-contaminated packages may be recycled.

according to Regulation (EC) No 1907/2006



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# **SECTION 14: Transport information**

Land transport (ADR/RID)		
14.1. UN number or ID number:	UN 2491	
14.2. UN proper shipping name:	ETHANOLAMINE SOLUTION	
14.3. Transport hazard class(es):	8	
14.4. Packing group:	III	
Hazard label:	8	
	8	
Classification code:		
Limited quantity:	C7 5 L	
Transport category:	3	
Hazard No:	80	
Tunnel restriction code:	F	
	L	
Inland waterways transport (ADN)	111 2404	
14.1. UN number or ID number:	UN 2491	
14.2. UN proper shipping name:	ETHANOLAMINE SOLUTION	
14.3. Transport hazard class(es):	8	
14.4. Packing group: Hazard label:		
Hazard label:	8	
	8	
Classification code:	C7	
Limited quantity:	5 L	
Marine transport (IMDG)		
<u>14.1. UN number or ID number:</u>	UN 2491	
	ETHANOLAMINE SOLUTION	
14.2. UN proper shipping name:	8	
<u>14.3. Transport hazard class(es):</u> 14.4. Packing group:		
<u>14.4. Packing group:</u> Hazard label:		
Hazard label:	8	
	8	
Marine pollutant:	no	
Special Provisions:	223	
Limited quantity:	5 L	
EmS:	F-A, S-B	
Air transport (ICAO-TI/IATA-DGR)		
14.1. UN number or ID number:	UN 2491	
14.2. UN proper shipping name:	ETHANOLAMINE SOLUTION	
14.3. Transport hazard class(es):	8	
14.4. Packing group:		
Hazard label:	8	
Special Provisions:	A3 A803	

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Limited quantity Passenger: IATA-packing instructions - Passenger: IATA-max. quantity - Passenger: IATA-packing instructions - Cargo: IATA-max. quantity - Cargo:	1 L 852 5 L 856 60 L	
14.5. Environmental hazards		
ENVIRONMENTALLY HAZARDOUS:	No	
<ul> <li>14.6. Special precautions for user No special measures are necessary.</li> <li>14.7. Maritime transport in bulk according not applicable</li> </ul>	to IMO instruments	
SECTION 15: Regulatory information		
15.1. Safety, health and environmental reg	ulations/legislation specific for the substance o	r mixture
EU regulatory information Restrictions on use (REACH, annex XVII Entry 3, Entry 40, Entry 55, Entry 75 2010/75/EU (VOC): Additional information Regulation (EC) No. 648/2004 [Deter- National regulatory information	10,6 %	
Water hazard class (D):	1 - slightly hazardous to water	
- -	stances in this mixture were not carried out.	
SECTION 16: Other information		
Abbreviations and acronyms ADR: Accord européen sur le transpor (European Agreement concerning the IMDG: International Maritime Code for IATA: International Air Transport Asso GHS: Globally Harmonized System o EINECS: European Inventory of Exist ELINCS: European List of Notified Ch CAS: Chemical Abstracts Service LC50: Lethal concentration, 50% LD50: Lethal dose, 50%	ociation f Classification and Labelling of Chemicals ing Commercial Chemical Substances	oad)
PROC 1: Use in closed processes. PROC 2: Chemical production or refir processes with equivalent containmen PROC 4: Chemical production where PROC 7: Industrial spraying PROC 8 (Transfer): Dilution of concer agents.		sage of textile washing
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PROC 10 (Roller application or brushing): Processing without large-scale spraying.
PROC 11 (Spraying outside industrial settings): Processing with large-scale spraying (e. g. high pressure cleaning, foam gun).
PROC 13: Treatment of articles by dipping and pouring
PROC 19 (Hand-mixing with intimate contact): Hand cleaning and disinfection

# Relevant H and EUH statements (number and full text)

H225	Highly flammable liquid and vapour.	
H290	May be corrosive to metals.	
H302	Harmful if swallowed.	
H312	Harmful in contact with skin.	
H314	Causes severe skin burns and eye damage.	
H318	Causes serious eye damage.	
H319	Causes serious eye irritation.	
H332	Harmful if inhaled.	
H335	May cause respiratory irritation.	
H412	Harmful to aquatic life with long lasting effects.	

# **Further Information**

Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]: 9 (1)

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)