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® Offensive

UFI: U270-P0E4-T00U-2QVP

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)

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: Danger

Pictograms:



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.

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.

P310 Immediately call a POISON CENTER/doctor.

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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				
	EC No	Index No	REACH No		
	Classification (Regulation	(EC) No 1272/2008)			
112-34-5	2-(2-Butoxyethoxy)ethano	ol, Diethylene glycol monobutyl eth	er	5 - < 10 %	
	203-961-6	603-096-00-8	01-2119475104-44		
	Eye Irrit. 2; H319	•	•		
122-99-6	2-Phenoxyethanol			1 - < 5 %	
	204-589-7	603-098-00-9	01-2119488943-21		
	Acute Tox. 4, Eye Dam. 1	I, STOT SE 3; H302 H318 H335	•		
141-43-5	2-Aminoethanol	1 - < 5 %			
	205-483-3	603-030-00-8	01-2119486455-28		
	Acute Tox. 4, Acute Tox. Chronic 3; H332 H312 H3				
15763-76-5	Sodium p-cumenesulpho	1 - < 5 %			
	239-854-6		01-2119489411-37		
	Eye Irrit. 2; H319				
1310-58-3	Potassium hydroxide	1 - < 5 %			
	215-181-3	019-002-00-8	01-2119487136-33		
	Met. Corr. 1, Acute Tox. 4				
1336-21-6	Ammonia	< 1 %			
	215-647-6	007-001-01-2	01-2119982985-14		
	Skin Corr. 1B, STOT SE				

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 %
	dermal: LD50	= 2764 mg/kg; oral: LD50 = 3305 mg/kg	
122-99-6	204-589-7	2-Phenoxyethanol	1 - < 5 %
	oral: ATE 139	4 mg/kg	
141-43-5	205-483-3	2-Aminoethanol	1 - < 5 %
		50 = > 1,3 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); dermal: g/kg; oral: LD50 = 1089 mg/kg STOT SE 3; H335: >= 5 - 100	
15763-76-5	239-854-6	Sodium p-cumenesulphonate	1 - < 5 %
	dermal: LD50	= > 2000 mg/kg; oral: LD50 = > 2000 mg/kg	
1310-58-3	215-181-3	Potassium hydroxide	1 - < 5 %
		300 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	
1336-21-6	215-647-6	Ammonia	< 1 %
	STOT SE 3; H	335: >= 5 - 100	

according to Regulation (EC) No 1907/2006



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

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

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.

according to Regulation (EC) No 1907/2006



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For emergency responders

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

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.

If extensively sprayed or used with high pressure equipment:

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

Absorb spillage to prevent material damage.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed.

Keep/Store only in original container.

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, Category III)

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits.

Suitable material: NBR (Nitrile rubber) / Thickness of the glove material > 0,1 mm

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).

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: yellow - orange
Odour: Perfumes, fragrances

Test method

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

boiling range:

Flammability: not applicable Lower explosion limits: not determined

according to Regulation (EC) No 1907/2006



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Upper explosion limits:

Flash point:

Auto-ignition temperature:

Decomposition temperature:

pH-Value (at 20 °C):

Viscosity / kinematic:

not determined
not applicable

13,4 - 14,0
not determined

(at 40 °C)

Water solubility: completely miscible

(at 20 °C)

Solubility in other solvents

not determined

Partition coefficient n-octanol/water:

Vapour pressure:

Density (at 20 °C):

Relative density:

Relative vapour density:

Relative vapour density:

Particle characteristics:

not applicable

not determined

not determined

not determined

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)ethanol, Diethylene glycol monobutyl ether							
	oral	LD50 mg/kg	3305	Rat				
	dermal	LD50 mg/kg	2764	Rabbit				
122-99-6	2-Phenoxyethanol							
	oral	ATE 1394	l mg/kg					
141-43-5	2-Aminoethanol							
	oral	LD50 mg/kg	1089	Rat		OECD 401		
	dermal	ATE mg/kg	1100					
	inhalation vapour	LC50 mg/l	> 1,3	Rat				
	inhalation dust/mist	ATE	1,5 mg/l					
15763-76-5	Sodium p-cumenesulphonate							
	oral	LD50 mg/kg	> 2000	Rat				
	dermal	LD50 mg/kg	> 2000	Rabbit				
1310-58-3	Potassium hydroxide							
	oral	LD50 mg/kg	> 300	Rat				

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

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



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CAS No	Chemical name							
	Aquatic toxicity	Dose		[h] [d]	Species	Source	Method	
112-34-5	2-(2-Butoxyethoxy)ethano	ol, Diethylene	e glycol mon	obutyl etl	ner			
	Acute fish toxicity	LC50 mg/l	1300	96 h	Lepomis macrochirus (Bluegill)		OECD 203	
	Acute algae toxicity	ErC50 mg/l	> 100	96 h	Scenedesmus subspicatus		OECD 201	
	Acute crustacea toxicity	EC50 mg/l	> 100	48 h	Daphnia magna (Big water flea)		OECD 202	
122-99-6	2-Phenoxyethanol							
	Acute fish toxicity	LC50	344 mg/l	96 h	Pimephales promelas (fathead minnow)			
	Acute algae toxicity	ErC50 mg/l	> 500	72 h	Scenedesmus subspicatus		DIN 38412 / part 9	
	Acute crustacea toxicity	EC50 mg/l	> 500	48 h	Daphnia magna (Big water flea)		OECD 202	
	Fish toxicity	NOEC	23 mg/l	34 d	Pimephales promelas (fathead minnow)		OECD 210	
	Crustacea toxicity	NOEC mg/l	9,43	21 d	Daphnia magna (Big water flea)		OECD 211	
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		92/69/EWG	
	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	
15763-76-5	Sodium p-cumenesulphonate							
	Acute fish toxicity	LC50 mg/l	> 100	96 h				
	Acute algae toxicity	ErC50 mg/l	> 100	72 h	Desmodesmus subspicatus			
	Acute crustacea toxicity	EC50 mg/l	> 100	48 h	Daphnia magna (Big water flea)			
	Algae toxicity	NOEC	31 mg/l	4 d				
1310-58-3	Potassium hydroxide						_	
	Acute fish toxicity	LC50	80 mg/l	96 h	Gambusia affinis (Mosquito fish)			
1336-21-6	Ammonia							
	Acute fish toxicity	LC50 3,4 mg/l	0,75 -	96 h	Pimephales promelas (fathead minnow)			
	Acute crustacea toxicity	EC50	101 mg/l	48 h	Daphnia magna (Big water flea)		ASTM E 729-80	
	Crustacea toxicity	NOEC mg/l	0,79	96 d	Daphnia magna (Big water flea)		EPA OPPTS 850	

12.2. Persistence and degradability

The surfactants contained in this mixture comply with the biodegradability criteria as laid down in Regulation



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(EC) No.648/2004 on detergents.

CAS No	Chemical name					
	Method	Value	d	Source		
	Evaluation					
112-34-5	2-(2-Butoxyethoxy)ethanol, Diethylene glycol monobutyl ether					
	OECD 301 C	> 70 %	28			
	Readily biodegradable (according to OECD criteria).					
122-99-6	2-Phenoxyethanol					
	OECD 301 A	> 70 %	28			
	Readily biodegradable (according to OECD criteria).					
141-43-5	2-Aminoethanol					
	OECD 301 A	> 70 %	28			
	Readily biodegradable (according to OECD criteria).					
15763-76-5	Sodium p-cumenesulphonate					
	OECD 301 B	> 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	1
122-99-6	2-Phenoxyethanol	1,2
141-43-5	2-Aminoethanol	- 2,46
15763-76-5	Sodium p-cumenesulphonate	-1,1
1336-21-6	Ammonia	-1,38

BCF

CAS No	Chemical name	BCF	Species	Source
122-99-6	2-Phenoxyethanol	0,3493		

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

according to Regulation (EC) No 1907/2006



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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.

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):814.4. Packing group:IIIHazard label:8



Classification code: C7
Limited quantity: 5 L
Transport category: 3
Hazard No: 80
Tunnel restriction code: F

Inland waterways transport (ADN)

14.1. UN number or ID number: UN 2491

14.2. UN proper shipping name: ETHANOLAMINE SOLUTION

14.3. Transport hazard class(es):814.4. Packing group:IIIHazard label:8



Classification code: C7 Limited quantity: 5 L

Marine transport (IMDG)

14.1. UN number or ID number: UN 2491

14.2. UN proper shipping name: ETHANOLAMINE SOLUTION

14.3. Transport hazard class(es):814.4. Packing group:IIIHazard label:8



Marine pollutant: no
Special Provisions: 223
Limited quantity: 5 L
EmS: F-A, S-B
Segregation group: 18 - alkalis

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number or ID number: UN 2491

14.2. UN proper shipping name: ETHANOLAMINE SOLUTION

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14.3. Transport hazard class(es):814.4. Packing group:IIIHazard label:8



Special Provisions: A3 A803

Limited quantity Passenger: 1 L

IATA-packing instructions - Passenger:852IATA-max. quantity - Passenger:5 LIATA-packing instructions - Cargo:856IATA-max. quantity - Cargo:60 L

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

14.6. Special precautions for user

No special measures are necessary.

14.7. Maritime transport in bulk according to IMO instruments

not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

EU regulatory information

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 55, Entry 75

2010/75/EU (VOC): 3,8 %

Additional information

Regulation (EC) No. 648/2004 [Detergents regulation]

National regulatory information

Water hazard class (D): 1 - slightly hazardous to water

15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route

(European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service

LC50: Lethal concentration, 50%

LD50: Lethal dose, 50%

Process categories according to ECHA guidance on information requirements and chemical safety assessment, chapter R.12:

PROC 1: Use in closed processes.

PROC 2: Chemical production or refinery in closed continuous process with occasional controlled exposure or



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processes with equivalent containment conditions

PROC 4: Chemical production where opportunity for exposure arises

PROC 7: Industrial spraying

PROC 8 (Transfer): Dilution of concentrated products, application of drain cleaners, dosage of textile washing agents.

PROC 9: Transfer of substance or mixture into small containers (dedicated filling line, including weighing)

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)

May be corrosive to metals.
Harmful if swallowed.
Harmful in contact with skin.
Causes severe skin burns and eye damage.
Causes serious eye damage.
Causes serious eye irritation.
Harmful if inhaled.
May cause respiratory irritation.
Very toxic to aquatic life.
Toxic to aquatic life with long lasting effects.
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.)