

MATERIAL SAFETY DATA SHEET

in accordance with Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 (REACH), Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 and Commission Regulation (EU) No 2015/830



Universal cleaner "Wash & Free" das sanitary

Version Nr. 01

Dated: 2020-09-24

Printed: 2021-02-08

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING:

1.1. PRODUCT IDENTIFIER:

MIXTURE IDENTIFICATION:	Liquid perfumed detergent with phosphoric acid and surfactants.
MIXTURE PACKAGING:	500 g
MIXTURE CONTAINS:	5-15 % nonionic surfactants, 15-30 % phosphoric acid. Other ingredients: preservatives (Methylchloroisothiazolinone, Methylisothiazolinone), perfume (Benzyl Salicylate, Citronellol, Hexyl Cinnamal).
TRADE NAME:	Universal cleaner
TRADE MARK:	Wash & Free
REACH REGISTRATION NR.:	Not applicable. Mixture
MOLECULAR FORMULA:	Not applicable. Mixture
MOLECULAR WEIGHT:	Not applicable. Mixture
CAS NR.:	Not applicable. Mixture
EC NR.:	Not applicable. Mixture
INDEX NR.:	Not applicable. Mixture

1.2. RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST:

RECOMMENDED USE:	Household cleaning product for sinks, bathtubs, shower cabins, tiles, toilet bowls, etc. Removes scum, soap residue and limescale. Apply the product for its intended purpose and according to the instruction. For additional information on the fields of use of this product, please contact us.
USES ADVISED AGAINST:	Uses other than those identified are not recommended

1.3. DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET:

MANUFACTURER:	LLC "UKRAINIAN-GERMAN COMPANY " 2K "
ADDRESS OF THE MANUFACTURER:	Passage by Yuri Kozlovsky, 7/1, 29016, Khmelnytskyi, Ukraine
TELEPHONE NUMBER OF THE MANUFACTURER:	+38 (067) 654-10-82
FAX NUMBER OF THE MANUFACTURER:	-
E-MAIL OF THE MANUFACTURER:	info.2k@2k.company
COMPETENT PERSON RESPONSIBLE FOR THE MATERIAL SAFETY DATA SHEET:	info.2k@2k.company

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Version Nr. 01

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1.4. EMERGENCY CONTACTS:

LLC "UKRAINIAN-GERMAN COMPANY " 2K " (Office Hours)

1.4. 1. Emergency telephone number for other countries:

Country	Official advisory body	Address	Emergency number
Belarus	The Belarus Republican Poisons Centre Minsk Municipal Hospital of Emergency Medical Aid	Kizhevatova str. 58 220115 Minsk	+375 (0)17 201 9158
Bulgarija	National Toxicological Information Centre National Clinical Toxicology Centre, Emergency Medical Institute "Pirogov"	21 Totleben Boulevard 1606 SOFIA	+359 2 9154 409
Croatia	Poison Control Centre Institute of Medical Research & Occupational Health	Ksaverska Cesta 2 P.O. Box 291 HR-10000 Zagreb	+385 1 234 8342
CZECH REPUBLIC	Poisons Information Centre Clinic For Occupational Medicine, 1st Medical Faculty, Charles University	Na Bojisti 1 128 00 Prague 2	+42 2 2491 9293 +42 2 2491 5402
DENMARK	Poisons Information Centre Bispebjerg Hospital	Bispebjerg Bakke 23, 60, 1 DK-2400 Copenhagen NV	+45 82 12 12 12 +45 35 31 55 55
FINLAND	Poisons Information Centre	P.O.B 790 (Tukholmankatu 17) HUS SF - 00029 Helsinki	+358 9 471 977
Greese	Poisons Information Centre	11527 Athens	+30 10 779 3777
Greese	Department of Forensic Medicine & Toxicology	Aristotle University of Thessaloniki, Medical Faculty	54006 Thessaloniki
HUNGARY	Országos Kémiai Biztonsági Intézet (National Institute of Chemical Safety) Egészségügyi Toxikológiai Tájékoztató Szolgálat (Health Toxicological Information Service)	1437 Budapest PO Box 839 1097 Budapest, Nagyvárud tér 2	+36 80 20 11 99
Iceland	Iceland Poisons Information Centre Landspítali University Hospital	Fossvogi 108 Reykjavik	+354 525 111 +354 543 2222
IRELAND (REPUBLIC OF)	National Poisons Information Centre Beaumont Hospital	Beaumont Hospital Beaumont Road 9 Dublin	: +353 1 8379964
ISRAEL	Israel Poisons Information Centre Rambam Medical Centre	PO Box 9602 31096 Haifa	+972 4 854 1900
ITALY	Centro Antiveleni (Poisons Centre) Dipartimento di Tossicologia Clinica, Universita Cattolica del Sacro Cuore	Largo Agostino Gemelli 8 I-00168 Roma	+39 06 305 4343
Kazakhstan	Republican Toxicology Centre City Emergency Medicine Hospital	Tole-bi 93 480083 Almaty	KAZAKHSTAN
LATVIA	Toxicology and Sepsis Clinic, information on poisoning and medicinal products; State fire and rescue service:	2 Hipokrāta Street, Riga, LV-1038	+371 67042473 (+371) 112; (+371) 113
LITHUANIA	Poisons Control and Information	Siltnamiu 29	+370 2 36 20 52

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Version Nr. 01

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	Bureau	2043 Vilnius	+370 2 36 20 92
NORWAY	Poisons Information Directorate of Health and Social Affairs	P.O. Box 7000 St. Olavs Plass 130 Oslo	+47 22 591300
POLAND	Warsaw Poison Control and Information Centre	Al.Solidarnosci 67 P-03 401 Warszawa	+48 22 619 66 54 +48 22 619 08 97
PORTUGAL	Centro de Informação Antivenenos – Dra Arlinda Borges Instituto Nacional de Emergência Médica (INEM)	Rua Almirante Barroso, 36 1000-013 Lisboa	808 250 143 (for use only in Portugal), +351 21 330 3284
ROMANIA	TOXAPEL Emergency Clinical Hospital for Children "Grigore Alexandrescu"	Bulevardul Iancu de Hunedoara 30- 32 Bucharest	+40 2121 06282 +40 2121 06183
RUSSIAN FEDERATION	Toxicology Information and Advisory Centre (RTIAC) Ministry of Health of the Russian Federation	3 Sukharevskaya Ploshad Block 7 129090 Moscow	+7 095 928 16 87 (Russian only)
SLOVAKIA	National Toxicological Information Centre University Hospital Bratislava	Limbová 5 833 05 Bratislava	+421 2 54 77 4 166
SLOVENIA	Poison Centre Division of Internal Medicine	University Clinical Centre Zaloska 7 1525 Ljubljana	+ 386 41 650 500
SPAIN	Servicio de Información Toxicológica Instituto Nacional de Toxicología, Departamento de Madrid	Calle Luis Cabrera 9 E-28002 Madrid	+34 91 562 04 20
SWEDEN	Giftinformationscentralen Swedish Poisons Information Centre, Karolinska Hospital	Box 60 500 SE-171 76 Stockholm	+46 8 33 12 31 (International) 112 (National)
UCRAINE	Institute of Hygiene and Toxicology, Науковий центр превентивної токсикології, харчової та хімічної безпеки імені академіка Л.І. Медведя Міністерства охорони здоров'я України.	вулиця Героїв Оборони, 6, Київ, Україна, 03680	+38 (044) 526-97-00
UNITED KINGDOM	National Poisons Information Service (Belfast Centre) Royal Victoria Hospital	Grosvenor Road BT12 6BA Belfast	0870 600 6266 (UK only),
UNITED KINGDOM	National Poisons Information Service (Birmingham Centre) City Hospital	Dudley Road B18 7QH Birmingham	0870 600 6266 (UK only),
UNITED KINGDOM	NPIS Edinburgh (Scottish Poisons Information Bureau) Royal Infirmary of Edinburgh	51 Little France Crescent EH16 4SA Edinburgh	0870 600 6266 (UK only)
UNITED KINGDOM	Guy's & St Thomas' Poisons Unit Medical Toxicology Unit, Guy's & St Thomas' Hospital Trust	Avonley Road SE14 5ER London	0870 243 2241
UNITED KINGDOM	National Poisons Information Service (Newcastle Centre) Regional Drugs and Therapeutics Centre, Wolfson Unit	Claremont Place Newcastle-upon-Tyne NE1 4LP Newcastle	0870 600 6266 (UK only)
UNITED KINGDOM	National Poisons Information Service (Cardiff Centre) Gwenwyn Ward, Llandough Hospital	Penarth CF64 2XX Cardiff	0870 600 6266 (UK only),

2. HAZARDS IDENTIFICATION:

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Version Nr. 01

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2.1. CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

GHS pictograms and signal word:	In accordance with Regulation No 1272/2008 (CLP)	
 Danger	<p>Met. Corr. 1; H290</p> <p>Skin Corr. 1B, H314</p> <p>Aquatic Chronic 4, H413</p> <p>EUH208</p>	<p>May be corrosive to metals. <i>Kann gegenüber Metallen korrosiv sein</i></p> <p>Causes severe skin burns and eye damage. <i>Verursacht schwere Verätzungen der Haut und schwere Augenschäden.</i></p> <p>May cause long lasting harmful effects to aquatic life. <i>Kann für Wasserorganismen schädlich sein, mit langfristiger Wirkung.</i></p> <p>Contains Methylchloroisothiazolinone, Methylisothiazolinone, Hexyl Cinnamal, Citronellol, Benzyl Salicylate. May produce an allergic reaction. <i>Enthält Methylchloroisothiazolinone, Methylisothiazolinone, Hexyl Cinnamal, Citronellol, Benzyl Salicylate. Kann allergische Reaktionen hervorrufen.</i></p>

2.2. LABEL ELEMENTS

Labelling according to Regulation (EC) No 1272/2008 (CLP)

The product is classified and labelled according to the CLP regulation

GHS pictograms and signal word:	 GHS05 Danger <i>Gefahr</i>
Hazard statements	<p>H290 May be corrosive to metals <i>Kann gegenüber Metallen korrosiv sein</i></p> <p>H314 Causes severe skin burns and eye damage. <i>Verursacht schwere Verätzungen der Haut und schwere Augenschäden.</i></p> <p>H413 May cause long lasting harmful effects to aquatic life. <i>Kann für Wasserorganismen schädlich sein, mit langfristiger Wirkung.</i></p> <p>EUH208 Contains Methylchloroisothiazolinone, Methylisothiazolinone, Hexyl Cinnamal, Citronellol, Benzyl Salicylate. May produce an allergic reaction. <i>Enthält Methylchloroisothiazolinone, Methylisothiazolinone, Hexyl Cinnamal, Citronellol, Benzyl Salicylate. Kann allergische Reaktionen hervorrufen.</i></p>
Dimension of the pictogram (in millimetres)	<u>Capacity of the package</u> : ≤ 3 litres: not smaller than 10x10. If possible, at least 16x16.
Dimension of the label (in	<u>Capacity of the package</u> : ≤ 3 litres: if possible, at least 52x74.

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Version Nr. 01

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milimetres)	
Precautionary Statement Prevention	<p>P102 Keep out reach of children. <i>Darf nicht in die Hände von Kindern gelangen.</i></p> <p>P234 Keep only in original packaging. <i>Nur in Originalverpackung aufbewahren.</i></p> <p>P262 Do not get in eyes, on skin, or on clothing. <i>Nicht in die Augen, auf die Haut oder auf die Kleidung gelangen lassen.</i></p> <p>P264 Wash hands thoroughly after handling. <i>Nach Gebrauch Hände gründlich waschen.</i></p> <p>P280 Wear protective gloves/protective clothing/eye protection/ face protection/hearing protection. <i>Schutzhandschuhe/Schutzkleidung/Augenschutz/Gesichtsschutz/Gehörschutz tragen.</i></p>
Precautionary Statement Response	<p>P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. <i>BEI VERSCHLUCKEN: Mund ausspülen. KEIN Erbrechen herbeiführen</i></p> <p>P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. <i>BEI KONTAKT MIT DEN AUGEN: Einige Minuten lang behutsam mit Wasser spülen. Eventuell vorhandene Kontaktlinsen nach Möglichkeit entfernen. Weiter spülen.</i></p> <p>P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. <i>BEI BERÜHRUNG MIT DER HAUT (oder dem Haar): Alle kontaminierten Kleidungsstücke sofort ausziehen. Haut mit Wasser abwaschen [oder duschen].</i></p> <p>P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. <i>BEI EINATMEN: Die Person an die frische Luft bringen und für ungehinderte Atmung sorgen</i></p> <p>P310 Immediately call a POISON CENTER/doctor. <i>Sofort GIFTINFORMATIONSZENTRUM/Arzt anrufen.</i></p> <p>P390 Absorb spillage to prevent material damage. <i>Verschüttete Mengen aufnehmen, um Materialschäden zu vermeiden.</i></p>
Precautionary Statement Storage	<p>P405 Store locked up. <i>Unter Verschluss aufbewahren.</i></p> <p>P406 Store in a corrosion resistant container with a resistant inner liner. <i>In korrosionsbeständigem Behälter mit korrosionsbeständiger Innenauskleidung aufbewahren</i></p>
Precautionary Statement Disposal	<p>P501 Dispose of contents/container in accordance with local, regional, national and international regulations. <i>Entsorgung des Inhalts/Behälters gemäß den örtlichen, regionalen, nationalen und internationalen Vorschriften.</i></p>

2.3 OTHER HAZARDS:

No other hazards are known.

2.4. RESULTS OF PBT UN vPvB ASSESSMENT:

This mixture does not contain substances that meet the PBT or vPvB criteria of REACH, annex XIII.

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3. COMPOSITION/INFORMATION ON INGREDIENTS:

3.1. SUBSTANCES:

Not applicable

3.2. MIXTURES:

Household product based on below mentioned hazardous ingredients:

HAZARDOUS COMPONENTS:

INGREDIENT'S NAME; (INCI Name)	EC Nr. / EC Index No/ REACH Nr.	CAS. Nr	Percentage, m. %	Classification REGULATION (EC) No 1272/20
Phosphoric Acid 85%; Orthophosphoric Acid 85% (Phosphoric Acid)	231-633-2/ 015-011-00-6 / 01-2119485924-24-0000	7664-38-2	15-30	Skin Corr. 1B, H314
Alcohols, C12-15, ethoxylated; (C12-15 Pareth-7)	500-195-7/ Not applicable/ 01-2119488720-33-0000	68131-39-5	1-10	Aquatic Acute 1, H400 Aquatic Chronic 3, H412
2-butoxyethan-1-ol; 2-butoxyethanol (Butoxyethanol)	203-905-0/ 603-014-00-0 / 01-2119475108-36-0000	111-76-2	1-10	Acute Tox. 4; H302, H312, H332 Eye Irrit. 2; H319 Skin Irrit. 2, H315
Perfume (Parfum)	Not applicable (Mixture)	-	0,1-1,0	Skin Sens 1, H317 Eye Irrit. 2; H319 Skin Irrit. 2, H315 Aquatic Chronic 4, H413
Hexyl Cinnamal**	202-983-3/ Not applicable/ No (Pre-Registration process)	101-86-0	<0,1 (0,005-0,05)	Skin Sens. 1B; H317 Aquatic Acute 1; H400 Aquatic Chronic 1: H410
Benzyl Salicylate**	204-262-9 Not applicable/ 01-2119969442-31-0000	118-58-1	<0,1 (0,002-0,02)	Skin Sens. 1; H317 Eye Irrit. 2; H319 Aquatic Chronic 3, H412
Citronellol**	203-375-0/ Not applicable/ 01-2119453995-23-0000	106-22-9	<0,1 (0,002-0,02)	Skin Sens. 1; H317 Eye Irrit. 2; H319 Skin Irrit. 2, H315
*5-chloro-2-methyl-2H- isothiazol-3-one (Methylchloroisothiazolinone)	247-500-7/ 613-167-00-5/ No data available	26172-55-4 ; CAS Nr. For mixture (3:1): 55965-84-9	<0.0015 (<15 ppm)	Acute Tox. 2; H330 Acute Tox. 2; H310 Acute Tox. 3; H301 Skin Corr. 1C; H314 Eye Dam. 1; H318 Skin Sens. 1A; H317 EUH071 Aquatic Acute 1; H400 Aquatic Chronic 1: H410 (classification for mixture 3:1)
*2-methyl-2H-isothiazol-3-one (Methylisothiazolinone)	220-239-6/ 613-167-00-5/ No data available	2682-20-4; CAS Nr. For mixture (3:1): 55965-84-9		
Water and other ingredients,	Balance			

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Version Nr. 01

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Printed: 2021-02-08

determined not to be hazardous

- * - ingredients with limit values that require monitoring at the workplace.
- ** - *parfum hazardous ingredients.*

ADDITIONAL INFORMATION: None.

4. FIRST AID MEASURES:

4.1. DESCRIPTION OF FIRST AID MEASURES

- SKIN PROBLEM:** Wash off immediately with plenty of water for at least 15 minutes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.
- EYE CONTACT:** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.
- INGESTION:** Rinse mouth with water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. If victim is fully conscious, give a cupful of water. Get medical attention immediately.
- INHALATION:** If respiratory irritation occurs, remove casualty to fresh air and keep warm and at rest. Consult physician if necessary.

4.2. MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED:

See Section 11 for more detailed information on health effects and symptoms.

4.3. INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED:

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Treat symptomatically.

5. FIREFIGHTING MEASURES:

5.1. EXTINGUISHING MEDIA:

- Suitable extinguishing media:** Use chemical foam, dry chemical, carbon dioxide, sand or water spray.
- Extinguishing media which must not be used for safety reasons:** Water jet

5.2. SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE :

In case of fire, toxic incineration products may be released such as: carbon monoxide (CO), carbon dioxide (CO₂), phosphorus oxides, phosphine. Do not inhale explosion and combustion gases.

EXPLOSION HAZARD:

Non hazardous

5.3. ADVICE FOR FIREFIGHTERS:

Contact emergency personnel. Use self-contained breathing apparatus and full protective gear, if large quantities of product are involved. Hazardous decomposition products may be

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Version Nr. 01

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Printed: 2021-02-08

released. Thermal degradation may produce oxides of carbon, and phosphorus and/or derivatives.

5.4. ADDITIONAL INFORMATION:

Move undamaged containers from immediate hazard area if it can be done safely.

6. ACCIDENTAL RELEASE MEASURES

6.1. PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES: PERSONAL PRECAUTIONS:

Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Avoid inhalation, ingestion and contact with skin and eyes. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Ensure clean-up is conducted by trained personnel only. Refer to protective measures listed in sections 7 and 8. Wear personal protection equipment (see section 8).

6.2. ENVIRONMENTAL PRECAUTIONS:

Do not allow contact with soil, surface or ground water.

6.3. METHODS AND MATERIAL FOR CONTAINMENT

Stop leak if safe to do so. Contain spillage, and then collect with noncombustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite, dry lime or soda) and place in container for disposal according to local / national regulations (see section 13). Flush away traces with water with soda. For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway. Provide adequate ventilation.

6.4. REFERENCE TO OTHER SECTIONS:

See also section 8 and 13.

7. HANDLING AND STORAGE:

7.1. Precautions for Safe Handling:

For Household Settings: Do not ingest. Do not breathe dust/fume/gas/mist/vapours/spray. Use only with adequate ventilation. Wash hands thoroughly after handling. Do not get in eyes, on skin, or on clothing.

For Non-Household Settings:

Do not ingest. Do not breathe dust/fume/gas/mist/vapours/spray. Use only with adequate ventilation. Wash hands thoroughly after handling. Do not get in eyes, on skin, or on clothing.

7.2. Conditions for Safe Storage:

For Household Settings: Store in original tightly closed container in dry place. Keep out of reach of children.

For Non-Household Settings: Do not store near acids. Keep out of reach of children. Keep container tightly closed. Store in suitable labeled containers.

7.3. SPECIFIC END USE (S):

Use only as directed.

7.4. OTHER MEASURES:

Keep frost-free, in a cool, dry and ventilated area (<25° C). Protect from sunlight and keep away from

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Version Nr. 01

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heat.

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION:

8.1. For Household and Non - Household Setting:

Use in a ventilated area. Use safety glasses or safety goggles if airborne mist hazards exist; use gloves and other protective clothing (apron, boots etc.) to prevent skin contact. Always follow good hygienic work practices. Avoid prolonged contact with skin and clothing.

8.1.1. CONTROL PARAMETERS:

Ingredients Name:	CAS Nr.	TWA, 8 hours	STEL, 15 min.
Mixture of 5-Chloro-2-methyl-isothiazol-3(2H)-one and 2-Methylisothiazol-3(2H)-one	55965-84-9	0.076 mg/m ³	0.23 mg/m ³
Phosphoric Acid***	7664-38-2	1 mg/m ³ 1 mg/m ³ (Latvia)	3 mg/m ³ 2 mg/m ³ (Latvia)

***Republic of Latvia Cabinet Regulation No. 325 Adopted on 15 May 2007 - Labour Protection Requirements when Coming in Contact with Chemical Substances at Workplaces

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006 and NOAEL or NOAEC Values (ECHA data)

Substance name	End use	Exposure routes	Potential health effects	DNEL Level	NOAEL or NOAEC values
Phosphoric Acid CAS Nr.: 7664-38-2	Workers	Inhalation	Long-term systemic effects	10.7mg/m ³	534 mg/m ³ (NOAEC) (rat)
	Workers	Dermal	Long-term systemic effects	hazard unknown (no further information necessary)	
	Workers	Eyes	Long-term systemic effects	medium hazard (no threshold derived)	
	Consumers	Inhalation	Long-term systemic effects	4.57 mg/m ³	457,42 mg/m ³ (NOAEC) (rat)
	Consumers	Dermal	Long-term systemic effects	hazard unknown (no further information necessary)	
	Consumers	Eyes	Long-term systemic effects	medium hazard (no threshold derived)	155,36 mg/kg bw/day (LOAEL)
	Consumers	Oral	Long-term systemic effects	0,1 mg/kg bw/day	

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Substance name	End use	Exposure routes	Potential health effects	DNEL Level	NOAEL or NOAEC values
Alcohols, C12-15, ethoxylated CAS Nr.: 68131-39-5	Workers	Inhalation	Long-term systemic effects	294 mg/m ³	882 mg/m ³ (NOAEC) (rat)
	Workers	Dermal	Long-term systemic effects	2080 mg/kg bw/day	25000 mg/kg bw/day (NOAEL, rat)
	Workers	Eyes	Long-term systemic effects	no hazard identified	
	Consumers	Inhalation	Long-term systemic effects	87 mg/m ³	435 mg/m ³ (NOAEC) (rat)
	Consumers	Dermal	Long-term systemic effects	1250 mg/kg bw/day	25000 mg/kg bw/day (NOAEL, rat)
	Consumers	Eyes	Long-term systemic effects	no hazard identified	
	Consumers	Oral	Long-term systemic effects	25 mg/kg bw/day	500 mg/kg bw/day (NOAEL) (rat)
Butoxyethanol CAS Nr.: 111-76-2	Workers	Inhalation	Long-term systemic effects	98 mg/m ³	1091 mg/m ³ (NOAEC) (rat)
	Workers	Dermal	Long-term systemic effects	125 mg/kg bw/day	150 mg/kg bw/day NOAEL, rat)
	Workers	Eyes	Long-term systemic effects	medium hazard (no threshold derived)	
	Consumers	Inhalation	Long-term systemic effects	59 mg/m ³	426 mg/m ³ (NOAEC)(rat)
	Consumers	Dermal	Long-term systemic effects	75 mg/kg bw/day	150 mg/kg bw/day (NOAEL, rat)
	Consumers	Eyes	Long-term systemic effects	Medium hazard (no threshold derived)	
	Consumers	Oral	Long-term systemic effects	6,3 mg/kg bw/day	69 mg/kg bw/day (LOAEL) (rat)

8.2. EXPOSURE CONTROLS:



**PERSONAL PROTECTIVE EQUIPMENT:
GENERAL PROTECTIVE AND HYGIENIC**

MEASURES:

Effective exhaust ventilation system. Maintain air concentrations below occupational exposure standards. Avoid contact with the eyes, hair, skin. Provide skin and eyes protection plan. Handle in accordance with good

MATERIAL SAFETY DATA SHEET

in accordance with Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 (REACH), Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 and Commission Regulation (EU) No 2015/830



Universal cleaner "Wash & Free" das sanitary

Version Nr. 01

Dated: 2020-09-24

Printed: 2021-02-08

industrial hygiene and safety practice. Remove and wash contaminated clothing before re-use. Wash face, hands and any exposed skin thoroughly after handling. Provide suitable facilities for quick drenching or flushing of the eyes and body in case of contact or splash hazard. An eyewash and/or safety shower must be required where an employee's eyes or body could be exposed to injurious corrosive materials.

RESPIRATORY PROTECTION:

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant respirator use. In an emergency (e.g.: unintentional release of the substance) respiratory protection must be worn. Consider the maximum period for wear. At present time there is no available information about suitable filter respirator. A self-contained breathing apparatus can be used in any case.

BODY PROTECTION:

Protective clothing with PVC apron, acid resistant boots, PVC boots.

EYE PROTECTION:

Safety chemical resistant goggles or face shield. Eye wash bottles or eye wash stations in compliance with applicable standards.

PROTECTION OF HANDS:

Chemical protective gloves according to DIN EN 374 with CE-labelling. **Impervious gloves.** Check the condition of protective gloves after each use for any damages like holes, cuts or tears. Do not wear protective gloves longer than necessary. After use of gloves apply skin-cleaning agents and skin cosmetics.

- material of gloves:

PVC, Neoprene, Natural Rubber, butyl-rubber, nitrile rubber, fluoro-carbon rubber

- gloves made of the following materials are not suitable:

Gloves for mechanical protection, textile and leather gloves do not provide protection against chemicals.

RISK MANAGEMENT MEASURES:

The operators shall be instructed adequately.

The workplace shall be inspected regularly by competent personnel e.g. the safety representative. (Workers under the age of 18 are not allowed to work with phosphoric acid. Expectant and nursing mothers cannot be designated to work with this substance).

9. PHYSICAL AND CHEMICAL PROPERTIES:

MATERIAL SAFETY DATA SHEET

in accordance with Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 (REACH), Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 and Commission Regulation (EU) No 2015/830



Universal cleaner "Wash & Free" das sanitary

Version Nr. 01

Dated: 2020-09-24

Printed: 2021-02-08

9.1. INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	Homogeneous liquid
COLOUR	Colourless
ODOUR	Characteristic, pleasant, fresh
pH – VALUE AT 20 °C (100% liquid) :	1.5-2.5
MAXIMUM FOAM HEIGHT, % OF THE SCALE, NOT MORE THAN:	180 mm
MELTING POINT/MELTING RANG:	Not applicable
BOILING POINT (°C):	98.9 – 102°C
FREEZING POINT (°C):	Not applicable
FLASH POINT:	Not determined
DECOMPOSITION TEMPERATURE (°C):	Not determined
EXPLOSIVE HAZARDS:	Product is not explosive
AUTO-IGNITION TEMPERATURE:	Product is not selfigniting.
OXIDIZING PROPERTIES:	Not applicable
SOLUBILITY IN WATER	Completely soluble
FLAMMABILITY (solid, gaseous):	Not applicable - liquid

9.2. OTHER INFORMATION:

PARTITION COEFFICIENT: n-OCTANOL/WATER	log K_{ow} = 0.81 (Butoxyethanol); log K_{ow} = 5,06 (Alcohols, C12-15, ethoxylated); log K_{ow} = 0.401 (Methylchloroisothiazolinone); log K_{ow} = -0.486 (Methylisothiazolinone); For <i>Phosphoric Acid</i> : According to the REACH Regulation, the study does not need to be conducted if the substance is inorganic (Annex VII, Column 2 adaptation).
% VOC:	Complies with EC regulations for VOC content.

10. STABILITY AND REACTIVITY

10.1. REACTIVITY:	Stable under normal conditions
10.2. CHEMICAL STABILITY:	Stable under normal conditions
10.3. POSSIBILITY OF HAZARDOUS REACTION:	None known
10.4. CONDITIONS TO AVOID:	Avoid strong overheating.
10.5. INCOMPATIBLE MATERIALS:	Alkalis, metals, strong oxidizing agents.

MATERIAL SAFETY DATA SHEET

in accordance with Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 (REACH), Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 and Commission Regulation (EU) No 2015/830



Universal cleaner "Wash & Free" das sanitary

Version Nr. 01

Dated: 2020-09-24

Printed: 2021-02-08

10.6. HAZARDOUS DECOMPOSITION PRODUCTS:

Thermal decomposition products may include the following materials: Carbon oxides and Phosphorus oxides, Phosphine.

11. TOXICOLOGICAL INFORMATION:

This is a hazardous household product that is safe for consumers and other users under intended use. Product is not classified as Toxic, but is classified as Skin Corr. 1B., Causes severe skin burns and eye damage. Additional information on toxicological endpoints is available from the supplier upon request.

11.1. INFORMATION ON MIXTURE INGREDIENTS TOXICOLOGICAL EFFECTS:

ACUTE TOXICITY: Not classified as toxic.

Hazardous Ingredients:

Ingredients Name:	CAS No.	Composition Range	LD50/LC50 (oral)	LD50/LC50 (dermal)
Phosphoric Acid	7664-38-2	15-30 %	LD50 = ~2600 mg/kg (Rat) – ECHA data for 10% Phosphoric Acid	LD50 = >2000 mg/kg (Rabbit) for 85% Phosphoric Acid
Butoxyethanol	111-76-2	1-10 %	LD50 = 1414 mg/kg (Guinea pig)	LD50 = >2000 mg/kg (Guinea Pig)
Alcohols, C12-15, ethoxylated	68131-39-5	1-10 %	LD50 >5000 mg/kg (Rat)	LD50 >2000 mg/kg (Rat)
Mixture of 5-Chloro-2-methylisothiazol-3(2H)-one and 2-Methylisothiazol-3(2H)-one	55965-84-9	<15 ppm	LD50 = 50-300 mg/kg (Rat)	200-1000 mg/kg (Rabbit)

PRIMARY IRRITANT EFFECT:

ON THE SKIN: Causes severe skin burns. Redness, Pain, Corrosion.

ON THE EYE: Contact causes serious eye damage. Redness, Pain, Corrosion.

INHALATION: May cause nose, throat, and lung irritation. Respiratory irritation, Cough.

INGESTION: Causes digestive tract burns. Corrosion, Abdominal pain.

SENSITISATION: May cause sensitising effect

CHRONIC EFFECT Health injuries are not known or expected under normal use.

CARCINOGENICITY Finished product is not expected to be carcinogenic

TARGET ORGANS: No adverse health effects on target organs expected

MATERIAL SAFETY DATA SHEET

in accordance with Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 (REACH), Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 and Commission Regulation (EU) No 2015/830



Universal cleaner "Wash & Free" das sanitary

Version Nr. 01

Dated: 2020-09-24

Printed: 2021-02-08

for finished product.

MUTAGENICITY

No mutagenic effect known

TOXICAL EFFECT ON THE REPRODUCTIVE SYSTEM:

No toxic effect known

12. ECOLOGICAL INFORMATION:

12.1. TOXICITY: The product is classified as Aquatic Chronic 4, H413 May cause long lasting harmful effects to aquatic life. The product ingredients are expected to be safe for the environment at concentrations predicted under normal use and accidental spill scenarios. Packaging components are compatible with the conventional solid waste management practices. Additional information is available from the supplier on request.

12.1.1. INFORMATION ON MIXTURE INGREDIENTS ECOTOXICOLOGICAL EFFECTS:

AQUATIC TOXICITY:	
7664-38-2 Phosphoric Acid	
EC ₅₀ / 48 h	>100 mg/l - (Daphnia magna) (OECD 202)
EC ₅₀ / 96 h	100 mg/l – (OECD 201)
LC ₅₀ / 96 h	75,1 mg/l – Fish (Koreas study-pH was not adjusted to relevant enviromental values) Regulatory ecotoxicity tests need to be conducted at pH 6-9, it can be expected that phosphoric acid will not cause adverse effects to fish when in this pH range
111-76-2 Butoxyethanol	
EC ₅₀ / 48 h	690 mg/l - (Daphnia magna) – ECHA Data
ErC ₂₀ / 72 h	623 mg/l – ECHA Data
LC ₅₀ / 96 h	1474 mg/l – Fish-ECHA Data
68131-39-5 Alcohols, C12-15, ethoxylated	
EC ₅₀ / 48 h	0,14-0,23 mg/l - (Daphnia magna) (OECD 202)
EC ₅₀ / 72 h	> 0,75 mg/l– Algae (OECD 201)
LC ₅₀ / 96 h	0,59-3,1 mg/l – Fish (OECD 203)
55965-84-9 Methylchloroisothiazolinone & Methylisothiazolinone	
EC ₅₀ / 48 h	0,16 mg/l (Daphnia magna) (OECD 202)
EC ₅₀ / 72 h	0.027 mg/l – Algae (OECD 201)
LC ₅₀ / 96 h	0,19 mg/l – Fish (OECD 203)

12.2. PERSISTENCE AND DEGRADABILITY

ASSESSMENT BIODEGRADATION AND ELIMINATION:

Readily biodegradable (acc. to OECD criteria).
The surfactants contained in this preparation 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

MATERIAL SAFETY DATA SHEET

in accordance with Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 (REACH), Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 and Commission Regulation (EU) No 2015/830



Universal cleaner "Wash & Free" das sanitary

Version Nr. 01

Dated: 2020-09-24

Printed: 2021-02-08

detergent manufacturer.

Ingredient	Biodegradability	Days (OECD Guideline 301 B; 301 D and 302 B)
Phosphoric Acid	The study does not need to be conducted because the substance is inorganic. (Biodegradability term pertains to an organic material capable of decomposition as a result of attack by microorganisms). However, phosphoric acid will be neutralized by bases present in natural environment)	
Butoxyethanol	75-92%	28 d (301 – OECD SIDS)
Alcohols, C12-15, ethoxylated	61-72 %	28 (301 B)
Methylchloroisothiazolinone & Methylisothiazolinone	>60 %	28 (301 D)
	30,00%	28 (301 B)

12.3. BIOACCUMULATIVE POTENTIAL

Not expected to bioaccumulate

Ingredient	BCF	Note
Phosphoric Acid	Not data available. REACH Annex IX states that there may be bioaccumulation potential if log Kow is >3. The study does not need to be conducted because the substance is inorganic.	No data available
Butoxyethanol	>3	A low potential for bioaccumulation is expected and is decreased by environmental processes such as biodegradation and absorption, which reduce aquatic concentrations.
Alcohols, C12-15, ethoxylated	12.7 – 387.5	A low potential for bioaccumulation were considered to have a delayed elimination and potential of short term bioaccumulation according to Beek (2000).

12.4. MOBILITY IN SOIL:

Soluble in water. The product is predicted to have high mobility in soil.

Ingredient	Adsorption coefficient log K _{oc}	Note
Phosphoric Acid	Not data available.	No data available.

MATERIAL SAFETY DATA SHEET

in accordance with Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 (REACH), Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 and Commission Regulation (EU) No 2015/830



Universal cleaner "Wash & Free" das sanitary

Version Nr. 01

Dated: 2020-09-24

Printed: 2021-02-08

	study scientifically not necessary-ECHA data	
Butoxyethanol	1,81	Expected to be mobile
Alcohols, C12-15, ethoxylate	<5.50	Moderate mobile

ASSESSMENT TRANSPORT BETWEEN ENVIRONMENTAL COMPARTMENTS:

Adsorption to solid soil phase is possible.

**ADDITIONAL ECOLOGICAL INFORMATION:
AOX-INDICATION:**

The product does not contain substances, which can influence the AOX of waste water.

THE FORMULATION CONTAINS THE FOLLOWING HEAVY METALS AND THEIR COMPOUNDS ACCORDING TO DIRECTIVE 2006/11/EC (ANNEX 1):

None

GENERAL NOTES:

Sewages that contain this product may not be released into the aquatic environment without preliminary treatments (biological purification plant).

12.5. RESULTS OF PBT UN vPvB ASSESSMENT:

This mixture does not contain substances that meet the PBT or vPvB criteria of REACH, annex XIII.

12.6. OTHER ADVERSE EFFECTS

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption).

13. DISPOSAL CONSIDERATIONS:

13.1. For Household Settings:

The following instructions are for consumer usage only. Empty can through normal use as instructed on the can. Consumer produced household solutions may be disposed of down the drain with running water. Consumer may discard empty container in trash, or recycle where facilities exist.

13.2. For Non-Household Settings: Products covered by this MSDS, in their original form, when disposed as waste, are considered as hazardous waste. Disposal should be in accordance with all local, regional, national and international regulations.

13.2.1. WASTE TREATMENT METHODS:

Within the present knowledge of the supplier, this product is regarded as hazardous waste. Do not discharge into any place where its accumulation could be dangerous. Consult supplier for specific recommendations. Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations. Dispose of wastes in an approved waste disposal facility.

EUROPEAN WASTE CATALOGUE

EWC CODE	Description
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MATERIAL SAFETY DATA SHEET

in accordance with Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 (REACH), Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 and Commission Regulation (EU) No 2015/830



Universal cleaner "Wash & Free" das sanitary

Version Nr. 01

Dated: 2020-09-24

Printed: 2021-02-08

07 06 01*	Aqueous washing liquids and mother liquors (Waste code applies to unused product)
15 01 02	Plastic packaging (Waste code applies to packaging containing residues of product)
15 01 10*	Packaging containing residues of or contaminated by hazardous substances

CONTAMINATED PACKAGING:

Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not reuse empty containers. Dispose of in accordance with local, state, and federal regulations.

RECOMMENDATION:

RECOMMENDED CLEANING AGENT:

Water. In single quantities packaging can be apply again or disposed in household waste container after rinsing with water.

14. TRANSPORT INFORMATION:

14.1. UN NUMBER:	1760
14.2. UN PROPER SHIPPING NAME: ADR, IATA, IMDG	1760 CORROSIVE LIQUID, N.O.S. (PHOSPHORIC ACID 15-30%)
14.3. TRANSPORT HAZARD CLASS (ES): ADR, IATA, IMDG CLASS:	8
HAZARD LABEL (ADR, IATA, IMDG) :	
14.3.1. TRANSPORT DOCUMENT DESCRIPTION:	
ADR:	UN 1760 CORROSIVE LIQUID, N.O.S. (PHOSPHORIC ACID 15-30%), 8, III, (E)
IMDG:	UN 1760 CORROSIVE LIQUID, N.O.S. (PHOSPHORIC ACID 15-30%), 8, III
14.4. PACKING GROUP: ADR, IATA, IMDG	III
14.5. ENVIRONMENTAL HAZARDS: ADR-ENVIRONMENTAL POLLUTANT MARINE POLLUTANT	Aquatic Chronic 4, H413 May cause long lasting harmful effects to aquatic life. May cause long lasting harmful effects to aquatic life.
14.6. SPECIAL PRECAUTIONS FOR USER:	None
14.7. TRANSPORT IN BULK ACCORDING TO ANNEX II	

MATERIAL SAFETY DATA SHEET

in accordance with Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 (REACH), Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 and Commission Regulation (EU) No 2015/830



Universal cleaner "Wash & Free" das sanitary

Version Nr. 01

Dated: 2020-09-24

Printed: 2021-02-08

OF MARPOL 73/78 AND THE IBC CODE: Not applicable

TRANSPORT/ADDITIONAL INFORMATION: No

UN "MODEL REGULATION" No

15. REGULATORY INFORMATION:

While the finished product(s) is considered hazardous, this MSDS contains valuable information critical to the safe handling and proper use of the product.

15.1. SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE:

REGULATION (EC) No 648/2004 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 31 March 2004 on detergents.

REGULATION (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.

DIRECTIVE 2006/11/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 15 February 2006 on pollution caused by certain dangerous substances discharged into the aquatic environment of the Community

REGULATION (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

COMMISSION REGULATION (EU) No 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the REACH.

INFORMATION ABOUT LIMITATION OF USE: Take note of Directive 94/33/EC on the protection of young people at work.

Take note of Directive 92/85/EC on the safety and health of pregnant women at work.

REGULATIONS WHICH MAY APPLY IN EVENT OF ACCIDENT: CONTROL OF MAJOR ACCIDENT HAZARDS (COMAH):

This substance/mixture is not subject to ordinance on industrial accidents (substance list, Annex I).

15.1.1. National regulations:

Germany VwVwS Annex reference :

Water hazard class (WGK) 1, low hazard to water (Classification according to VwVwS, Annex 4)

12th Ordinance Implementing the Federal

MATERIAL SAFETY DATA SHEET

in accordance with Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 (REACH), Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 and Commission Regulation (EU) No 2015/830



Universal cleaner "Wash & Free" das sanitary

Version Nr. 01

Dated: 2020-09-24

Printed: 2021-02-08

Immission Control Act - 12.BImSchV :

Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

15.2. CHEMICAL SAFETY ASSESSMENT:

Not required.

16. OTHER INFORMATION:

Full text of the classifications, including the indication of danger, the hazard symbols and the hazard statements, mentioned in section 2 or 3:

Acute Tox. 2	Acute toxicity - Category 2
Acute Tox. 3	Acute toxicity - Category 3
Acute Tox. 4	Acute toxicity - Category 4
Skin Corr. 1B	Skin corrosion - Category 1B
Skin Corr. 1C	Skin corrosion - Category 1C
Eye Dam. 1	Eye Damage - Category 1
Skin Sens. 1	Skin Sensitisation - Category 1
Skin Sens. 1A	Skin Sensitisation - Category 1A
Skin Sens. 1B	Skin Sensitisation - Category 1B
Skin Irrit. 2	Skin irritation - Category 2
Eye Irrit. 2	Eye irritation - Category 2
Met. Corr. 1	Corrosive to metals - Category 1
Aquatic Acute 1	Acute aquatic toxicity - Category 1
Aquatic Chronic 1	Chronic aquatic toxicity - Category 1
Aquatic Chronic 3	Chronic aquatic toxicity - Category 3
Aquatic Chronic 4	Chronic aquatic toxicity - Category 4
H290	May be corrosive to metals
H301	Toxic if swallowed
H302	Harmful if swallowed
H310	Fatal in contact with skin.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H319	Causes serious eye irritation
H330	Fatal if inhaled.
H332	Harmful if inhaled.
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
H412	Harmful to aquatic life with long lasting effects
H413	May cause long lasting harmful effects to aquatic life.
EUH071	Corrosive to the respiratory tract
EUH208	Contains (name of sensitising substance). May produce an allergic reaction.

ABBREVIATIONS AND ACRONYMS:

PBT: persistent, bioaccumulative, toxic
vPvB: very persistent, very bioaccumulative

MATERIAL SAFETY DATA SHEET

in accordance with Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 (REACH), Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 and Commission Regulation (EU) No 2015/830



Universal cleaner "Wash & Free" das sanitary

Version Nr. 01

Dated: 2020-09-24

Printed: 2021-02-08

- EC:** European Inventory of Existing Commercial Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
Index Nr.: International Substance Identification Nr. (Information related to the classification of substance including all C&L elements (i.e. hazard pictograms, signal words, codification of hazard and precautionary statements, specific concentration limits or M-factors, any cut-off values and supplemental labelling information)
- AOX:** Adsorbable Organohalogens
ADR: European Agreement concerning the International Carriage of Dangerous Goods
IATA: International Air Transport Association
IMDG: International Maritime Code for Dangerous Goods
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
LC₅₀: Median (50 %) lethal concentration
LD₅₀: Median (50%) lethal dose
EC₅₀: Effective concentration, 50 percent
ErC₂₀: EC20 means the concentration at which 20% of the organisms tested exhibit a statistically significant effect of the chemical
CLP: Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and Mixtures
ECHA: European Chemicals Agency, Helsinki (http://echa.europa.eu/home_en.asp)
TWA: Time Weighted Average
STEL: Short Term Exposure Limit
DNEL: Derived no-effect level is the level of exposure to a substance above which humans should not be exposed
NOAEL: No-Observed-Adverse-Effect Level
LOAEL: Lowest-observed-adverse-effect level. Lowest dose at which there was an observed toxic or adverse effect.
NOAEC: No-Observed-Adverse-Effect Concentration
VOC: Volatile Organic Compounds

The information given in this MSDS was obtained from current and reliable sources. However, these data are provided without any warranty, expressed or implied, regarding their correctness or accuracy. Since the conditions of use, handling, storage, and disposal of this product are beyond P&B control, it is the responsibility of the user both to determine safe conditions for use as well as to assume liability for loss, damage, and expenses arising out of improper use. No warranty expressed or implied regarding the product described herein shall be created by or inferred from any statement or omission in this MSDS.