

SAFETY DATA SHEET

Conforms to Regulation (EC) No. 1907/2006 (REACH), (EU) 2020/878

PRODUCT Detergent capsule "Wash & Free"

Version 2.0
Date of first issue 29/11/2021
Date of revision 17/11/2022

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

1.1. Product identifier

Product name: Detergent capsule "Wash & Free"

Trade Mark: WASH&FREE

Product code: ---

UFI code: A3D2-Y0F2-P00D-PA87

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

Use of substance/mixture: PC35: Washing and cleaning products. Detergent capsule.
SU21-Consumer uses

1.3. Details of the supplier of the safety data sheet

Manufacturer:	JOINT UKRAINIAN-GERMAN ENTERPRISE "2K" Khmelnitskiy, Yrii Kozlovsky Street, 7/1 Khmelnitskiy region, 29016, Ukraine
Responsible person in EU:	NAME & ADDRESS "2K" Haushaltchemie GmbH, Lützner Str. 7 a, 04177 Leipzig, Germany phone: 491787178800 e-mail: info@2k.company www: https://2k.company/de/

1.4. Emergency telephone number

Poison Control Centre (Austria)
Phone No.: +43 1 406 4343
Antigif Centrum Centre Antipoisons (Belgium)
Phone No.: +32 070 245 245
National Toxicology Center, Hospital for Active Medical Treatment and
Emergency Medicine "N.I.Pirogov" (Bulgaria)
Phone No. / fax.: +359 2 9154 233
Poison Control Centre (Croatia)
Phone No.: +385 1 234 8342
Toxicological Information Centre (Czech Republic)
Phone No.: +420 224 919 293 / +420 224 915 402
Poison Control Hotline (Denmark)
Phone No.: +45 82 12 12 12
Poisoning Information Centre (Estonia)
Phone No.: +372 626 93 90
Poison Information Centre (Finland)
Phone No.: +358 09 471 977
ORFILA (INERIS) (France)
Phone No.: + 33 (0) 1 45 42 59 59
"2K" Haushaltchemie GmbH, Germany
Phone No.: +491787178800
Health Toxicological Information Service (Hungary)
Phone No.: +36 80 20 11 99
Poison Centre (Iceland)
Phone No.: +354 543 2222

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National Poisons Information Centre (Ireland)
Phone No.: + 353 (0)1 809 2566 / + 353 (0)1 837 9964
Valsts Toksikoloģijas centrs, Saindēšanās un zāļu informācijas centrs (Latvia)
Phone No.: +371 670 42473
Health Emergency Situations Centre of the Ministry of Health, Poison Information Bureau (Lithuania)
Phone No.: +370 5 236 20 52, mob.: +370 687 53378
Mater Dei Hospital (Malta)
Phone No.: +356 2545 0000
National Poisons Information Centre (NVIC) (Netherlands)
Phone No.: +31 (0) 30 274 8888
Mental Health Helpline (Norway)
Phone No.: +47 22 59 13 00
Instituto Nacional de Emergência Médica (Portugal)
Phone No.: + 351 213 303 271
Biroul RSI si Informare Toxicologica (Romania)
Phone No.: +40 021 318 3606
National Toxicological Information Centre (NTIC) (Slovakia)
Phone No.: +421 2 5477 4166
Toxicology Information Service (Spain)
Phone No.: + 34 91 562 04 20
Swedish Poisons Information Centre (Sweden)
Phone No.: +46 08 331231
Health and Safety Executive (HSE) (United Kingdom)
Phone No.: +44 0151 922 9235

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Product definition	Mixture
Classification according to regulation (EC) No 1272/2008:	Skin Irrit. 2, H315 Eye Dam. 1, H318 EUH208

2.2. Label elements

According to regulation (EC) No 1272/2008:	
Symbol:	
Signal word:	EN Danger <i>DE</i> <i>Gefahr</i> <i>ET</i> <i>ettevaatust</i> <i>HU</i> <i>veszély</i> <i>LT</i> <i>pavojinga</i> <i>LV</i> <i>bīstami</i> <i>PL</i> <i>niebezpieczeństwo</i> <i>RO</i> <i>pericol</i>

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Hazard statements:	<p>H315 Causes skin irritation.</p> <p><i>DE Verursacht Hautreizungen.</i> <i>ET Põhjustab nahaärritust.</i> <i>HU Bőrirritáló hatású.</i> <i>LT Dirgina odą.</i> <i>LV Kairina ādu.</i> <i>PL Działa drażniąco na skórę.</i> <i>RO Provoacă iritarea pielii.</i></p> <p>H318 Causes serious eye damage.</p> <p><i>DE Verursacht schwere Augenschäden.</i> <i>ET Põhjustab raskeid silmakahjustusi.</i> <i>HU Súlyos szemkárosodást okoz.</i> <i>LT Smarkiai pažeidžia akis.</i> <i>LV Izraisa nopietnus acu bojājumus.</i> <i>PL Powoduje poważne uszkodzenie oczu.</i> <i>RO Provoacă leziuni oculare grave.</i></p>
Hazardous ingredients:	Contain: Alcohols, C12-16, ethoxylated, Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs, 2-Aminoethanol.
Precautionary statements:	<p>P102 Keep out reach of children.</p> <p><i>DE Darf nicht in die Hände von Kindern gelangen.</i> <i>ET Hoida lastele kättesaamatus kohas.</i> <i>HU Gyermekektől elzárva tartandó.</i> <i>LT Laikyti vaikams neprieinamoje vietoje.</i> <i>LV Sargāt no bērniem.</i> <i>PL Chronić przed dziećmi.</i> <i>RO A nu se lăsa la îndemâna copiilor.</i></p> <p>P264 Wash hands thoroughly after handling.</p> <p><i>DE Nach Gebrauch Hände gründlich waschen.</i> <i>ET Pärast käitlemist pesta hoolega käed.</i> <i>HU A használatot követően a kezét alaposan meg kell mosni.</i> <i>LT Po naudojimo kruopščiai nuplauti rankas.</i> <i>LV Pēc izmantošanas rokas kārtīgi nomazgāt.</i> <i>PL Dokładnie umyć ręce po użyciu.</i> <i>RO Spălați-vă mâinile bine după utilizare.</i></p> <p>P280 Wear protective gloves/protective clothing/eye protection/ face protection.</p> <p><i>DE Schutzhandschuhe/Schutzkl idung/Augenschutz/Gesichtsschutz tragen.</i> <i>ET Kanda kaitsekindaid/kaitserõivastust/kaitseprille/kaitsemaski.</i> <i>HU Védőkesztyű/védőruha/szemvédő/arcvédő használatra kötelező.</i> <i>LT Mūvėti apsaugines pirštines/dėvėti apsauginius drabužius/naudoti akių (veido) apsaugos priemo es.</i> <i>LV Izmantot aizsargcimdus/ aizsargdrēbes/ acu aizsargus/ sejas aizsargus.</i> <i>PL Stosować rękawice ochronne/ odzież ochronną/ ochronę oczu /ochronę twarzy.</i></p>

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- RO** *Purtați mănuși de protecție/îmbrăcăminte de protecție/echipament de protecție a ochilor/ e hipament de protecție a feței.*
- P302+P352** IF ON SKIN: Wash with plenty of water.
- DE** *BEI BERÜHRUNG MIT DER HAUT: Mit viel Wasser waschen.*
- ET** *NAHALE SATTUMISE KORRAL: pesta rohke veega.*
- HU** *HA BŐRRE KERÜL: Lemosás bő vízzel.*
- LT** *PATEKUS ANT ODOS: plauti dideliu vandens kiekiu.*
- LV** *SASKARĒ AR ĀDU: nomazgāt ar lielu ūdens daudzumu.*
- PL** *W PRZYPADKU KONTAKTU ZE SKÓRĄ: Umyć dużą ilością wody.*
- RO** *ÎN CAZ DE CONTACT CU PIELEA: spălați cu multă apă.*
- P305+P351+P338** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- DE** *BEI KONTAKT MIT DEN AUGEN: Einige Minuten lang behutsam mit Wasser spülen. Vorhandene Kontaktlinsen nach Möglichkeit entfernen.. Weiter spülen.*
- ET** *SILMA SATTUMISE KORRAL: loputada mitme minuti jooksul ettevaatlikult veega. Eemaldada kontaktläätsed, kui neid kasutatakse ja kui neid on kerge eemaldada. Loputada veel kord.*
- HU** *SZEMBE KERÜLÉS esetén: Több percig tartó óvatos öblítés vízzel. Adott esetben a kontaktlencsék eltávolítása, ha könnyen megoldható. Az öblítés folytatása.*
- LT** *PATEKUS Į AKIS: Kelias minutes atsargiai plauti vandeniui. Išimti kontaktinius lęšius, jeigu jie yra ir jeigu lengvai galima tai padaryti. Toliau plauti akis.*
- LV** *SASKARĒ AR ACĪM: uzmanīgi izskalot ar ūdeni vairākas minūtes. Izņemt kontaktlēcas, ja tās ir ievietotas un ja to ir viegli izdarīt. Turpināt skalot.*
- PL** *W PRZYPADKU DOSTANIA SIĘ DO OCZU: Ostrożnie płukać wodą przez kilka minut. Wyjść soczewki kontaktowe, jeżeli są i można je łatwo usunąć. Nadal płukać.*
- RO** *ÎN CAZ DE CONTACT CU OCHII: clătiți cu atenție cu apă timp de mai multe minute. Scoateți lentilele de contact, dacă este cazul și dacă acest lucru se poate face cu ușurință. Continuați să clătiți.*
- P310** Immediately call a POISON CENTER/ doctor.
- DE** *Sofort GIFTINFORMATIONSZENTRUM/Arz anrufen.*
- ES** *Llamar inmediatamente a un CENTRO DE TOXICOLOGÍA/médico.*
- HU** *Azonnal forduljon TOXIKOLÓGIAI KÖZPONTHOZ/orvoshoz/.*
- LT** *Nedelsiant skambinti į APSINUODIJIMŲ KONTROLĖS IR INFORMACIJOS BIURĄ/kreiptis į gydytoją/.*
- LV** *Nekavējoties sazinieties ar SAINDĒŠANĀS INFORMĀCIJAS CENTRU/ārstu/.*
- PL** *Natychmiast skontaktować się z OŚRODKIEM ZATRUCIĆ/lekarzem/.*
- RO** *Sunați imediat la un CENTRU DE INFORMARE TOXICOLOGICĂ/un medic.*
- P332+P313** If skin irritation occurs: Get medical advice/ attention.
- DE** *Bei Hautreizung: Ärztlichen Rat einholen/ärztliche Hilfe hinzuziehen.*
- ET** *Nahaärrituse korral: pöörduda arsti poole.*
- HU** *Bőrirritáció esetén: orvosi ellátást kell kérni.*
- L** *Jeigu sudirginama oda: kreiptis į gydytoją.*

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	<p><i>LV</i> Ja rodas ādas iekaisums: lūdziet mediķu palīdzību.</p> <p><i>PL</i> W przypadku wystąpienia podrażnienia skóry: Zasięgnąć porady/zgłosić się pod opiekę lekarza.</p> <p><i>RO</i> În caz de iritare a pielii: consultați medicul.</p> <p>P362+P364 Take off contaminated clothing and wash it before reuse</p> <p><i>DE</i> Kontaminierte Kleidung ausziehen und vor erneutem Tragen waschen.</p> <p><i>ET</i> Võtta seljast saastunud rõivad ja pesta enne korduskasutust.</p> <p><i>HU</i> A szennyezett ruhadarabot le kell vetni és újbóli használat előtt ki kell mosni.</p> <p><i>LT</i> Nusivilkti užterštus drabužius ir išskalbti prieš vėl apsivelkant.</p> <p><i>LV</i> Novilkt piesārņoto apģērbu un pirms atkārtotas lietošanas izmazgāt.</p> <p><i>PL</i> Zanieczyszczoną odzież zdjąć i wyprać przed ponownym użyciem.</p> <p><i>RO</i> Scoateți îmbrăcămintea contaminată și spălați-o înainte de reutilizare.</p>
Supplemental label elements:	<p>EUH208 Contains Subtilisin, Amylase, Disubstituted Alaninamide. May produce an allergic reaction.</p> <p><i>DE</i> Enthält Subtilisin, Amylase, Disubstituted Alaninamide. Kann allergische Reaktionen hervorrufen.</p> <p><i>ET</i> Sisaldab Subtilisin, Amylase, Disubstituted Alaninamide. Võib esile kutsuda allergilise reaktsiooni.</p> <p><i>HU</i> Subtilisin, Amylase, Disubstituted Alaninamide-t tartalmaz. Allergiás reakciót válthat ki.</p> <p><i>LT</i> Sudėtyje yra Subtilisin, Amylase, Disubstituted Alaninamide. Gali sukelti alerginę reakciją.</p> <p><i>LV</i> Satur Subtilisin, Amylase, Disubstituted Alaninamide. Var izraisīt alergisku reakciju.</p> <p><i>PL</i> Zawiera Subtilisin, Amylase, Disubstituted Alaninamide. Może powodować wystąpienie reakcji alergicznej.</p> <p><i>RO</i> Conține Subtilisin, Amylase, Disubstituted Alaninamide. Poate provoca o reacție alergică.</p>
According to (EC) No 648/2004 (for detergents):	<p>Ingredients: ≥ 15 % ≤30 non-ionic surfactants, anionic surfactants, ≤ 5% enzymes, phosphonates, perfume (hexyl cinnamal, alpha-isomethyl ionone), CI Acid Violet 54, CI 42090, CI 19140, CI 14720.</p>

Special packaging requirements

Containers to be fitted with child-resistant fastenings: Yes, applicable.

Tactile warning of danger Δ: Yes, applicable.

2.3. Other hazards

Product does not meet the criteria for PBT or vPvB in accordance with Annex XIII of REACH (Regulation (EC) No 1907/2006).

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

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SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable.

3.2. Mixtures

Solution of the following hazardous substances and non-hazardous substances.

Identifiers	Quantity %	Chemical name	Classification according to Regulation (EC) 1272/2008 (CLP)	SCL, M-factor, ATE	Type
EC: 500-221-7 CAS: 68551-12-2 INDEX: Not available REACH: Not available	17.00-20.00	Alcohols, C12-16, ethoxylated	Acute Tox. 4, H302 Eye Dam. 1, H318	Not available	[1]
EC: 287-494-3 CAS: 85536-14-7 INDEX: Not available REACH: 01-2119490234-40-0004	17.00-20.00	Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs	Acute Tox. 4, H302 Skin Corr. 1C, H314 Aquatic Chronic 3, H412	Not available	[1]
EC: 200-578-6 CAS: 64-17-5 INDEX: 603-002-00-5 REACH: Not available	10.00-15.00	Ethanol	Liq. 2, H225 Eye Irrit. 2, H319	Not available	[1]
EC: 205-483-3 CAS: 141-43-5 INDEX: 603-030-00-8 REACH: Not available	4.00-5.00	2-Aminoethanol	Acute Tox. 4, H302 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Corr. 1B, H314	Not available STOT SE 3; H335: C ≥ 5 %	[1]
EC: 607-983-0 CAS: 26658-46-8 INDEX: Not available REACH: Not available	1.00-3.00	Ethoxylated polyethyleneimine	Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319	Not available	[1]
EC: Not available CAS: Not available INDEX: Not available REACH: Not available	0.10-1.00	Parfum (Fragrance)	Skin Irrit. 2, H315 Skin Sens 1, H317 Eye Irrit. 2, H319 Aquatic Chronic 3, H412	Not available	[1]
EC: 220-552-8 CAS: 2809-21-4 INDEX: Not available REACH: Not available	0.20-0.50	Etidronic acid	Acute Tox. 4, H302 Eye Dam. 1, H318 Aquatic Chronic 4, H413	Not available	[1]
EC: 232-752-2 CAS: 9014-01-1 INDEX: Not available REACH: 647-012-00-8	0-0.10	Subtilisin	Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 Resp. Sens. 1, H334	Not available	[1]

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EC: 232-565-6 CAS: 9000-90-2 INDEX: Not available REACH: 647-015-00-4	0-0.10	Amylase	Resp. Sens. 1, H334	Not available	[1]
EC: 938-640-6 CAS: Not available INDEX: Not available REACH: 01-2119984321-38	0-0.10	Disubstituted Alaninamide	Skin Sens 1B; H317	Not available	[1]

See section 16 for the full text of the H phrases declared above.

Occupational exposure limits, if available, are listed in section 8.

Type:

- [1] Substance classified with a health or environmental hazard
- [2] Substance with a workplace exposure limit
- [3] PBT-substance
- [4] vPvB-substance

SECTION 4: First aid measures

General information:	Take affected persons out of danger area and lay down. Immediately remove any clothing soiled by the product. In case of irregular breathing or respiratory arrest provide artificial respiration.
After inhalation:	Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist. In case of unconsciousness place patient stably in side position for transportation.
After skin contact:	Immediately wash with water and rinse thoroughly. Seek immediate medical advice.
After eye contact:	Rinse opened eye for several minutes under running water. Seek immediate medical advice.
Ingestion:	Rinse out mouth and then drink plenty of water. Do not induce vomiting; call for medical help immediately.

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

Inhalation:	There may be irritation of the throat with a feeling of tightness in the chest. Exposure may cause coughing or wheezing. Risk of pulmonary oedema.
Skin contact:	Causes skin irritation.
Eye contact:	Eye irritation / Eye damage.
Ingestion:	There may be soreness and redness of the mouth and throat. Caustic effect on mucous membranes.
Delayed/immediate effects:	Immediate effects can be expected after short-term exposure.

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

Treatment in accordance with the doctor's assessment of the patient's condition. Symptomatic treatment.

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

SECTION 5: Firefighting measures

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5.1. Extinguishing media

Suitable extinguishing media: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media: Do not use full power water jet.

5.2. Special hazards arising from the substance or mixture

Risk of explosion if heated under confinement. In a fire or if heated, a pressure increase will occur and the container may burst. Decomposition products may include the following materials: carbon dioxide, carbon monoxide and unidentified organic and inorganic compounds.

5.3. Advice for firefighters

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Do not breathe vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

6.1.2. For emergency responders: If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also Section 8 for additional information on hygiene measures.

6.2. Environmental precautions

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

6.3. Methods and material for containment and cleaning up

Small spill: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill: Stop leak if without risk. Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g.

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sand, acid binders, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product.

6.4. Reference to other sections

See Section 1 for emergency contact information.
See Section 8 for information on appropriate personal protective equipment.
See Section 13 for additional waste treatment information

SECTION 7: Handling and storage

The information in this section contains generic advice and guidance.

7.1. Precautions for safe handling

Protective measures: Put on appropriate personal protective equipment (see Section 8). Avoid getting in eyes or on skin or clothing. Avoid breathing vapor or mist. Avoid ingesting. Avoid relies to environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residues and can be hazardous. Do not reuse container.

Advice on general occupational hygiene: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

7.2. Conditions for safe storage, including any incompatibilities

Storage: Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

Do not store above the following temperature: No specific recommendation.

7.3. Specific end use(s)

Recommendations: Laundry washing product. Customer use.

Industrial sector specific solutions: Not available.

SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance.

8.1. Control parameters

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Occupational exposure limits Limit values are laid down throughout the EU, but each Member State establishes its own national OELs, often going beyond EU legislation ((IOELV). OELs are set by competent national authorities and other relevant institutions.

EU: Indicative Occupational Exposure Limit Value (IOELV):

Substance name	Limit value 8 hours		Limit value short term	
	mg/m ³	ppm	mg/m ³	ppm
Values not established	-	-	-	-

Latvia (AER, reg.325/2011):

Substance name	Limit value 8 hours		Limit value short term (15 min)	
	mg/m ³	ppm	mg/m ³	ppm
Synthetic detergents	5	-	-	-

Germany (TRGS 900):

Substance name	Limit value 8 hours		Limit value short term (15 min)	
	mg/m ³	ppm	mg/m ³	ppm
Synthetic detergents	5	-	-	-

United Kingdom EH40/2018:

Substance name	Limit value 8 hours		Limit value short term (15 min)	
	mg/m ³	ppm	mg/m ³	ppm
Values not established	-	-	-	-

Recommended monitoring procedures:

If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to European Standard EN 689 for methods for the assessment of exposure by inhalation to chemical agents and national guidance documents for methods for the determination of hazardous substances.

8.2. Exposure controls

Appropriate engineering controls:

Ensure good ventilation. This can be achieved by localised extraction or general ventilation. If this is not sufficient to keep the concentration below the occupational exposure limit, suitable breathing protection is to be worn.

Individual protection measures:

Hygiene measures:

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.

Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection:

Safety eyewear or wear face protection complying with an approved standard

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should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

Skin protection:

Hand protection:



Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Check leak-tightness/impermeability prior to use. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. The times are approximate values from measurements at 22 °C and permanent contact. Increased temperatures due to heated substances, body heat etc. and a reduction of the effective layer thickness by stretching can lead to a considerable reduction of the breakthrough time. If in doubt, contact manufacturer. At an approx. 1.5 times larger / smaller layer thickness, the respective breakthrough time is doubled / halved. The data apply only to the pure substance. When transferred to substance mixtures, they may only be considered as a guide.

- **type of material:** NBR (Nitrile rubber)
- **material thickness:** >0,3 mm
- **breakthrough times of the glove material:** >480 minutes (permeation: level 6)
- **other protection measures:** Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended.

Body protection:

Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection:

Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection:



Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. Respiratory protection necessary at Aerosol or mist formation. Type: E (against acidic gases like sulphur dioxide or hydrogen chloride, colour code: yellow).

Environmental exposure controls:

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

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9.1. Information on basic physical and chemical properties

Appearance

Physical state	Gel capsules
Colour	Coloured
Odour	Characteristic
Odour threshold	Not applicable
pH VALUE AT 20 °C	7.00 -10.00 (1% water solution)
Melting point/freezing point	Not available
Initial boiling point and boiling range	Not available
Flash point	Not available
Evaporation rate	Not available
Flammability (solid, gas)	Not available
Upper/lower flammability or explosive limits	Not available
Vapour pressure	Not applicable
Vapour density	Not applicable
Density	Not available
Solubility(ies)	Highly soluble in water
Partition coefficient: n-octanol/water	Not available
Auto-ignition temperature	Not available
Decomposition temperature	Not available
Viscosity	Not available
Explosive properties	Not available
Oxidising properties	Not available

9.2. Other information

Not available

SECTION 10: Stability and reactivity

10.1. Reactivity

Not available

10.2. Chemical stability

Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

Under normal conditions of storage and use, hazardous reactions will not occur.

10.4. Conditions to avoid

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To avoid thermal decomposition, do not overheat.

10.5. Incompatible materials

Reactive or incompatible materials not known.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity estimate (ATE): Product is not classified.

Acute toxicity of ingredients:

Alcohols, C12-16, ethoxylated	LD50 (Oral) LD50 (Dermal) LC50 (Inhal.)	Rats Rabbits Rats	No data available No data available No data available	-
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs	LD50 (Oral) LD50 (Dermal) LC50 (Inhal.)	Rats Rats Rats	1470 mg/kg bw >2000 mg/kg bw 310 mg/m ³ air	4h
Ethanol	LD50 (Oral) LD50 (Dermal) LC50 (Inhal.)	Rats Rabbits Rats	15010 mg/kg bw No data available No data available	-
2-Aminoethanol	LD50 (Oral) LD50 (Dermal) LC50 (Inhal.)	Rats Rabbits Rats	1.19 mL/kg 2504 mg/kg bw > 1.3 mg/L air	6h
Ethoxylated polyethyleneimine	LD50 (Oral) LD50 (Dermal) LC50 (Inhal.)	Rats Rabbits Rats	No data available No data available No data available	-
Subtilisin	LD50 (Oral) LD50 (Dermal) LC50 (Inhal.)	Rats Rabbits Rats	1.8 g/kg No data available No data available	-

Skin corrosion/irritation: Causes skin irritation.

Serious eye damage/eye irritation: Causes serious eye damage.

Irritation/ Corrosion of ingredients:

Alcohols, C12-16, ethoxylated	Skin: Not irritating. Eye: Serious damage.
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs	Causes severe skin burns and eye damage
Ethanol	Skin: Irritating. Eye: Irritating.
2-Aminoethanol	Causes severe skin burns and eye damage

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Ethoxylated polyethyleneimine	Skin: Irritating. Eye: Irritating.
Subtilisin	Skin: Irritating. Eye: Serious damage.

Sensitisation: Product is not classified.

Sensitisation of ingredients:

Alcohols, C12-16, ethoxylated	Skin: Not sensitising. Respiratory: No known effect according to our database.
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs	Skin: Not sensitising. Respiratory: No known effect according to our database.
Ethanol	Skin: Not sensitising. Respiratory: No known effect according to our database.
2-Aminoethanol	Skin: Not sensitising. Respiratory: No known effect according to our database.
Ethoxylated polyethyleneimine	Skin: Not sensitising. Respiratory: No known effect according to our database.
Subtilisin	Skin: Not sensitising. Respiratory: Sensitising.
Amylase	Skin: Not sensitising. Respiratory: Sensitising.
Disubstituted Alaninamide	Skin: Sensitising. Respiratory: No known effect according to our database.

Repeated dose toxicity: Product is not classified.

	No known effect according to our database.
--	--

Carcinogenicity: Product is not classified.

	No known effect according to our database.
--	--

Mutagenicity: Product is not classified.

	No known effect according to our database.
--	--

Toxicity for reproduction: Product is not classified.

	No known effect according to our database.
--	--

Specific target organ toxicity. Single / repeated exposure: Product is not classified.

	No known effect according to our database.
--	--

Aspiration hazard Product is not classified.

	No known effect according to our database.
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Potential acute health effects

Inhalation: No known significant effects or critical hazards.

Skin contact: Causes skin irritation.

Eye contact: Causes serious eye damage.

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Ingestion: Irritating to mouth, throat and stomach.

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation: No known significant effects or critical hazards.

Skin contact: Adverse symptoms may include the following: irritation, redness.

Eye contact: Adverse symptoms may include the following: pain, watering, redness.

Ingestion: No known significant effects or critical hazards.

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure:

Potential immediate effects: Not available.

Potential delayed effects: Not available.

Long term exposure:

Potential immediate effects: Not available.

Potential delayed effects: Not available.

Potential chronic health effects:

Conclusion/Summary Not available.

General No known significant effects or critical hazards.

Carcinogenicity No known significant effects or critical hazards.

Mutagenicity No known significant effects or critical hazards.

Teratogenicity No known significant effects or critical hazards.

Developmental effects No known significant effects or critical hazards.

Fertility effects No known significant effects or critical hazards.

11.2. Other information

Not available.

SECTION 12: Ecological information

12.1. Toxicity

Not classified

Alcohols, C12-16, ethoxylated	Short-term toxicity to fish: Not available. Short-term toxicity to aquatic invertebrates: Not available. Toxicity to aquatic algae and cyanobacteria: Not available. Toxicity to microorganisms: Not available.
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs	Short-term toxicity to fish: LC50, 4 d: 1.67-2.88 mg/L. Long-term toxicity to fish: NOEC, 72 h: 230 µg/L. Short-term toxicity to aquatic invertebrates: EC50, 48 h: 2.9 mg/L. Long-term toxicity to aquatic invertebrates: NOEC, 21 d: 1.18 mg/L. Toxicity to aquatic plants other than algae: NOEC, 28 d: 4 mg/L.

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Ethanol	Short-term toxicity to fish: LC50, 4 d: 14.2 - 15.4 g/L. Long-term toxicity to fish: NOEC, 5 d: 250 - 1 000 mg/L. Short-term toxicity to aquatic invertebrates: EC50, 48 h: 10 g/L. Long-term toxicity to aquatic invertebrates: NOEC, 10 d: 2 - 9.6 mg/L. Toxicity to aquatic algae and cyanobacteria: EC50, 72 h: 275 mg/L. Toxicity to microorganisms: EC50, 4 h: 5.8 g/L.
2-Aminoethanol	Short-term toxicity to fish: LC50, 4 d: 349 mg/L. Long-term toxicity to fish: NOEC, 41d: 1.24 mg/L. Short-term toxicity to aquatic invertebrates: EC50, 48 h: 27.04 - 65 mg/L. Long-term toxicity to aquatic invertebrates: NOEC, 21 d: 850 µg/L. Toxicity to aquatic algae and cyanobacteria: EC50, 72 h: 2.1 - 2.8 mg/L. Toxicity to microorganisms: EC10, 30 min: 1 g/L.
Ethoxylated polyethyleneimine	Short-term toxicity to fish: Not available. Short-term toxicity to aquatic invertebrates: Not available. Toxicity to aquatic algae and cyanobacteria: Not available. Toxicity to microorganisms: Not available
Etidronic acid	Short-term toxicity to fish: LC50, 4 d: 195 - 2180 mg/L. Short-term toxicity to aquatic invertebrates: EC50, 48 h: 527 - 1 770 mg/L. Long-term toxicity to aquatic invertebrates: NOEC, 28 d: 6.75 mg/L. Toxicity to microorganisms: NOEC, 30 d: 200 mg/L.

12.2. Persistence and degradability

The surfactants contained in the products are biodegradable according to the requirements of the detergent regulation (EC) No 648/2004. Biodegradation information refers only to organic components.

Alcohols, C12-16, ethoxylated	Not available.
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs	Readily biodegradable. The substance was tested in a 28 -day DOC-die away test and found to be degraded by 94% in 28 days.
Ethanol	Ready biodegradability.
2-Aminoethanol	Ready biodegradability.
Ethoxylated polyethyleneimine	Not available.
Etidronic acid	Ready biodegradability.

12.3. Bioaccumulative potential

No known significant effects or critical hazards.

Alcohols, C12-16, ethoxylated	Not available.
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs	BCF values ranged from between 2 and <1000 L/kg
Ethanol	Ethanol has a low partition coefficient/fully miscible with water.
2-Aminoethanol	Not available.
Ethoxylated polyethyleneimine	Not available.
Etidronic acid	BCF = 71

12.4. Mobility in soil

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No known significant effects or critical hazards.

Alcohols, C12-16, ethoxylated	Not available.
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs	Not available.
Ethanol	Ethanol is readily biodegradable and will not bioaccumulate in the soil.
2-Aminoethanol	Not available.
Ethoxylated polyethyleneimine	Not available.
Etidronic acid	A soil biodegradation rate of 47% over 148 days in silt-loam soil.

12.5. Results of PBT and vPvB assessment

Product (and ingredients) does not meet the criteria for PBT or vPvB in accordance with Annex XIII of REACH (Regulation (EC) No 1907/2006).

12.6. Endocrine disrupting properties:

None

12.7. Other adverse effects

No known significant effects or critical hazards.

SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance.

13.1. Waste treatment methods

Product:

Methods of disposal:

Waste must be disposed of in accordance with federal, state and local environmental control regulations. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Hazardous waste:

Within the present knowledge of the supplier, this product is regarded as hazardous waste, as defined by EU Directive 2008/98/EC.

European waste catalogue (EWC):

20 01 29* Detergents containing dangerous substances.

Packaging:

Methods of disposal:

The generation of waste should be avoided or minimized wherever possible. Waste packaging should be recycled. Can be added to general waste collection after completely emptying. Incineration or landfill should only be considered when recycling is not feasible.

Within the present knowledge of the supplier, packaging is not regarded as hazardous waste, as defined by EU Directive 2008/98/EC.

European waste catalogue (EWC):

Container: 15 01 10*- packaging containing residues of or contaminated by hazardous substances.

SECTION 14: Transport information

This preparation is classified as dangerous according to international transport regulations (ADR/RID, IMDG or ICAO/IATA).

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International transport regulations:

- | | |
|--|---|
| 14.1. UN number | This product does not require a classification for transport. |
| 14.2. UN proper shipping name | This product does not require a classification for transport. |
| 14.3. Transport hazard class(es) | This product does not require a classification for transport. |
| 14.4. Packing group | This product does not require a classification for transport. |
| 14.5. Environmental hazards | This product does not require a classification for transport. |
| 14.6. Special precautions for user | This product does not require a classification for transport. |
| 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code | Not applicable. |

SECTION 15: Regulatory information

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

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.

COMMISSION REGULATION (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

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

ADR - the European Agreement concerning the International Carriage of Dangerous Goods by Road, concluded at Geneva on 30 September 1957, as amended.

RID - the Regulations concerning the International Carriage of Dangerous Goods by Rail, appearing as Appendix C to the Convention concerning International Carriage by Rail (COTIF) concluded at Vilnius on 3 June 1999, as amended.

ADN - the European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways concluded at Geneva on 26 May 2000, as amended.

IMDG Code - International Maritime Dangerous Goods Code.

IATA/ICAO: ICAO - International Civil Aviation Organization. IATA - International Air Transport Association.

MARPOL 73/78 - International Convention for the Prevention of Pollution from Ships, 1973 as modified by the Protocol of 1978.

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):

Annex XIV - List of substances subject to authorization: Substances of very high concern: None of the components are listed.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles: Not applicable.

15.2. Chemical safety assessment

Chemical Safety Assessment following regulation 1907/2006/EC: Has not been done for the product.

SECTION 16: Other information

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Abbreviations and acronyms:

Full text of abbreviations CLP: Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
 ADR: The European Agreement concerning the International Carriage of Dangerous Goods by Road
 RID: International Rule for Transport of Dangerous Substances by Railway
 IMDG: International Maritime Code for Dangerous Goods
 IATA: International Air Transport Association
 CAS: Chemical Abstracts Service
 EINECS: European Inventory of Existing Commercial chemical Substances
 LC50: Median lethal concentration
 LD50: Median lethal dose
 REACH: Registration, Evaluation and Authorisation of Chemicals
 PBT: Persistent, bio-accumulative and toxic
 vPvB: Very persistent, very bio-accumulative

Full text of classifications and H statements [CLP/GHS]:	Liq. 2, Flammable liquids, Category 2; H225 Highly flammable liquid and vapour. Acute Tox.4, Acute toxicity, Category 4; H302 Harmful if swallowed. H312 Harmful in contact with skin. H332 Harmful if inhaled. Skin Corr. 1B, 1C, Skin corrosion, Category 1B, 1C; H314 Causes severe skin burns and eye damage. Eye Damage 1, Serious eye damage, Category 1; H318 Causes serious eye damage. Skin Irrit. 2, Skin corrosion/irritation, Hazard Category 2; H315 Causes skin irritation. Skin Sens. 1B, Sensitisation-Skin, Hazard Category 1B; H317 May cause an allergic skin reaction. Eye Irrit. 2, Serious eye damage/eye irritation, Hazard Category 2; H319: Causes serious eye irritation. Resp. Sens. 1, Sensitisation of the respiratory tract, Hazard Category 1; H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. STOT SE 3, Specific target organ toxicity (single exposure), Category 3; H 335 May cause respiratory irritation. Aquatic Chronic 3, Hazardous to the aquatic environment- Chronic Hazard, Category 3; H412 Harmful to aquatic life with long lasting effects. Aquatic Chronic 4, Hazardous to the aquatic environment- Chronic Hazard, Category 4; H413 May cause long lasting harmful effects to aquatic life.
Product classification according to Regulation (EC) 1272/2008 (CLP)	H315 Causes skin irritation. H318 Causes serious eye damage.
Training advice:	In addition to health, safety and environmental training programs for their workers, companies must ensure that workers read, understand and apply the requirements of this SDS.

Key literature sources: Suppliers Safety Data Sheets. REGULATION (EC) No 1272/2008. Human & Environmental Risk Assessment on ingredients of European household

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cleaning products

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