

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 2020/878 of 18 June 2020

DRAKENBERG

2020 POLYCLEAN Universal detergent for glass «CLEAN GLASS»

Dated: 2024-01-19

Version Nr: 1.0

Supersedes the version: -

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

1.1 Product identifier:

MIXTURE IDENTIFICATION:	Universal cleaning detergent for glass surface
TRADE NAME:	2020 POLYCLEAN Universal detergent for glass «CLEAN GLASS»
TRADE MARK:	2020 POLYCLEAN
MIXTURE PACKAGING:	0.2 L, 0.5L, 1 L (bottle); 5 L; 10 L; 20 Lg (jerry cans); 1000 L (IBC (Intermediate Bulk Container))
MIXTURE CONTAINS:	5-15%: organic solvent; less than 5 %: nonionic surfactant; Other ingredients: perfumes, coloring.
UFI Code:	5JXU-1JWE-G00A-2UQ0
REACH REGISTRATION No.:	Not applicable. Mixture
MOLECULAR FORMULA:	Not applicable. Mixture
MOLECULAR WEIGHT:	Not applicable. Mixture
CAS No.:	Not applicable. Mixture
EC No.:	Not applicable. Mixture
INDEX No.:	Not applicable. Mixture
REACH REGISTRATION No.:	Not applicable. Mixture

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

RECOMMENDED USE: Cleaning agent for glass, mirrors, chrome and transparent plastic parts of cars.

USES ADVISED AGAINST: Uses other than those identified are not recommended

1.3 Details of the supplier of the safety data sheet

MANUFACTURER:	Limited liability company "Joint German-Ukrainian Enterprise "DrakenBerg", Code: 42281913
ADRESS OF THE MANUFACTURER:	Ukraine, 29016, Khmelnytskyi region, Khmelnytskyi, Yurii Kozlovsky Street, 7/1. web: drakenberg.com.ua
TELEPHONE NUMBER OF THE MANUFACTURER:	+380671111421
E-MAIL OF THE MANUFACTURER:	export.drakenberg@gmail.com
COMPETENT PERSON RESPONSIBLE FOR THE MATERIAL SAFETY DATA SHEET:	+380971445330 technologist Kravets Ihor Petrovych
RESPONSIBLE PERSON IN EU	2K Haushaltschemie GmbH, Lindenstr. 48-52, 40233 Düsseldorf, mailto:d.kushal85@gmail.com , Phone: 491787178800

1.4 Emergency telephone number

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Country	Official advisory body	Address	Emergency number
AUSTRIA	Austrian National Public Health Institute (GÖG) Vergiftungsinformationszentrale (VIZ)	Stubenring 6, 1010 Vienna, Austria T: +43 1 515 61-161 M: +43 676 848 191-661	Notruf 0–24 Uhr: 01 406 43 43 Euro-Notruf: 112 Rettung: 144 Ärztefunkdienst: 141
BELGIUM	BELGIAN POISON CENTER (BELGISCH ANTIGIFCENTRUM)	Poison Control Center c/o Military Hospital Queen Astrid Bruynstraat 1, 1120 Brussels	070 245 245 (free, 24/7) If unreachable, tel. 02 264 96 30 (normal rate) 8002 5500 , from Grand Duchy of Luxembourg every day, free 24 /7
BULGARIA	National Toxicology Center, Hospital for Active Medical Treatment and Emergency Medicine "N.I.Pirogov"	Ministry of Health, 5, „Sveta Nedelya“ sq., Sofia 1000	Emergency number/ fax: +359 2 9154 233 The service is available 24/7 and the communication language is Bulgarian +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 Information available 24/7 in Croatian and English.
CZECH REPUBLIC	Poisons Information Centre Clinic For Occupational Medicine, 1st Medical Faculty, Charles University	Na Bojisti 1 128 00 Prague 2	224 91 92 93 224 91 54 02 +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 Danish Poison Center (Giftlinjen): +45 8212 1212
ESTONIA	Estonian Emergency Response Centre	Osmussaare 2, 13811 Tallinn General info: 6287 400	National emergency telephone number (Häirekeskuse number) is 112 Mürgistusteabekeskuse infoliin 16662 (välisriigist helistades (+372)7943794)
FINLAND	Poisons Information Centre	P.O.B 790 (Tukholmankatu 17) HUS SF - 00029 Helsinki	Medical Helpline 116117 Open 24 hours a day 0800 147 111 (the call is free of charge) 09 471 977 +358 9 471 977
FRANCE	Poison Control Center (Centre Antipoison ORFILA)	Hôpital Fernand Widal 200 rue du faubourg St-Denis 75475 Paris Cedex 10	numéro ORFILA (INRS): + 33 (0)1 45 42 59 59 (for free 24/7) +33 (0)1 45 42 59 59
GERMANY	"2K" Haushaltschemie GmbH	Lindenstr. 48-52, 40233 Düsseldorf, Germany	+491787178800
GREESE	Poison Information Centre Children's Hospital P&A Kyriakou	Athens 11762 Greece	Emergency number: (0030) 2107793777 24 hours/day Fax: 00302107486114 +30 10 779 3777
HUNGARY	Health Toxicology Information Service	1097 Budapest, Albert Flórián út 2-6.	+36 80 201 199 (0-24 hours, free of charge - only from Hungary) +36 1 476 6464 (0-24 hours, can be called for a standard fee - also from abroad)
ICELAND	Poison control center	Fossvogi 108 Reykjavik	+354 543 2222 +354 543 1000 112
IRELAND (REPUBLIC OF IRELAND)	The National Poisons Information Centre (NPIC)	Beaumont Hospital Beaumont Road 9 Dublin	01 809 2566
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
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 Bureau	Siltnamiu 29 2043 Vilnius	+370 2 36 20 52 +370 2 36 20 92
THE NETHERLANDS	UMC Utrecht Heidelberglaan 100	Heidelberglaan 100 3584 CX UTRECHT	NVIC: +31 (0)88 755 8000: Only for the purpose of informing medical

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	3584 CX Utrecht	Reception 1 (level 0), UMC Utrecht site	personnel in case of acute intoxications' or in Dutch: 'Uitsluitend bestemd om professionele hulpverleners te informeren bij acute vergiftigingen
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	Portugal CIAV phone number: +351 800 250 250 808 250 143 (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	Phone number: +40213183606 +40 2121 06282 +40 2121 06183
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	Phone number: 112 + 386 41 650 500
SPAIN	Servicio de Información Toxicológica Instituto Nacional de Toxicología, Departamento de Madrid	Calle Luis Cabrera 9 E-28002 Madrid	National Emergency Telephone Number of Spanish Poison Centre: + 34 91 562 04 20 The information will be provided in Spanish (available 24h/365 days): health personnel & general public (poisoning cases)
SWEDEN	Giftinformationscentralen Swedish Poisons Information Centre, Karolinska Hospital	Box 60 500 SE-171 76 Stockholm	"112 – ask for Poisons Information" (in Swedish this will be: "112 – begär Giftinformation" +46 8 33 12 31 (International)
UKRAINE	Institute of Hygiene and Toxikology, 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
UKRAINE	Limited liability company "Joint German-Ukrainian Enterprise "DrakenBerg"	Ukraine, 29016, Khmelnytskyi region, Khmelnytskyi, Yurii Kozlovsky Street, 7/1.	+380971445330 technologist Kravets Ihor Petrovych

Section 2: Hazards identification

2.1 Classification of the substance or mixture

CLP Regulation (EC) No 1272/2008: Classification of this product has been carried out in accordance with CLP Regulation (EC) No 1272/2008.

The mixture is not classified as hazardous.

2.2 Label elements

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

The product is classified and labelled according to the CLP regulation

Hazard pictograms:	Not applicable
Signal word:	Not applicable
Hazard statements	Not applicable
Dimension of the pictogram (in millimetres)	<u>Capacity of the package:</u> ≤ 3 litres: not smaller than 10x10. If possible, at least 16x16. <u>Capacity of the package:</u> > 3 litres but ≤ 50 litres: at least 23x23.

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Dimension of the label (in millimetres)	Capacity of the package: ≤ 3 litres: if possible, at least 52x74. Capacity of the package: > 3 litres but ≤ 50 litres: at least 74x105.
Precautionary Statement	P262 EN Do not get in eyes, on skin, or on clothing. BG Да се избягва контакт с очите, кожата или облеклото. CS Zabraňte styku s očima, kůží nebo oděvem. FI Varo kemikaalin joutumista silmiin, iholle tai vaatteisiin. PL Nie wprowadzać do oczu, na skórę lub na odzież. RO Evitați orice contact cu ochii, pielea sau îmbrăcămintea. SK Zabraňte kontaktu s očami, pokožkou alebo odevom. SV Får inte komma i kontakt med ögonen, huden eller kläderna. P264 EN Wash your hands thoroughly with soap and water after handling the product. BG Да се измие ръцете старателно с топла вода и сапун след употреба. CS Po manipulaci důkladně omyjte ruce teplou vodou a mýdlem. FI Pese kädet huolellisesti käsittelyn jälkeen vedellä ja saippualla. PL Dokładnie umyć ręce po użyciu z mydłem i wodą. RO Spălați-vă mâinile bine după utilizare cu apă și săpun. SK Po manipulácii starostlivo umyte ruky s mydlom a vodou. SV Tvätta händer grundligt noggrant med tvål och vatten av produkten efter användning . P280 EN Wear protective gloves. BG Използвайте предпазни ръкавици. CS Používejte ochranné rukavice. FI Käytä suojakäsineitä. PL Stosować rękawice ochronne. RO Purtați mănuși de protecție. SK Noste ochranné rukavice. SV Använd skyddshandskar. P302+P352 EN IF ON SKIN: Wash with plenty of soap and water. BG ПРИ КОНТАКТ С КОЖАТА: Измийте обилно със сапун и вода. CS PŘI STYKU S KŮŽÍ: Omyjte velkým množstvím vody a mýdla. FI JOS KEMIKAALIA JOUTUU IHOLLE: Pese runsaalla vedellä ja saippualla. PL W PRZYPADKU KONTAKTU ZE SKÓRĄ: Umyć dużą ilością wody z mydłem. RO ÎN CAZ DE CONTACT CU PIELEA: spălați cu multă apă și săpun. SK PRI KONTAKTE S POKOŽKOU: Umyte veľkým množstvom vody a mydla.

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	SV VID HUDKONTAKT: Tvätta med mycket tvål och vatten. P305 + P351 + P338 EN IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. BG ПРИ КОНТАКТ С ОЧИТЕ: Промивайте внимателно с вода в продължение на няколко минути. Свалете контактните лещи, ако има такива и доколкото това е възможно. Продължавайте да промивате. CS PŘI ZASAŽENÍ OČÍ: Několik minut opatrně vyplachujte vodou. Vyjměte kontaktní čočky, jsou-li nasazeny a pokud je lze vyjmout snadno. Pokračujte ve vyplachování. FI JOS KEMIKAALIA JOUTUU SILMIIN: Huuhdo huolellisesti vedellä usean minuutin ajan. Poista piilolinssit, jos sen voi tehdä helposti. Jatka huuhtomista. PL W PRZYPADKU DOSTANIA SIĘ DO OCZU: Ostrożnie płukać wodą przez kilka minut. Wyjąć 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. SK PO ZASIAHNUTÍ OČÍ: Niekoľko minút ich opatrne vyplachujte vodou. Ak používate kontaktné šošovky a ak je to možné, odstráňte ich. Pokračujte vo vyplachovaní. SV VID KONTAKT MED ÖGONEN: Skölj försiktigt med vatten i flera minuter. Ta ur eventuella kontaktlinser om det går lätt. Fortsätt att skölja. P337 + P313 EN If eye irritation persists: Get medical advice/attention. BG При продължително дразнене на очите: Потърсете медицински съвет/помощ. CS Přetrvává-li podráždění očí: Vyhledejte lékařskou pomoc/ošetření. FI Jos silmä-ärsytys jatkuu: Hakeudu lääkäriin. PL W przypadku utrzymywania się działania drażniącego na oczy: Zasięgnąć porady/zgłosić się pod opiekę lekarza. RO Dacă iritarea ochilor persistă: consultați medicul. SK Ak podráždenie očí pretrváva: vyhľadajte lekársku pomoc/starostlivosť. SV Vid bestående ögonirritation: Sök läkarhjälp.
Additional non-GHS hazard statement	EUH210 EN Safety data sheet available on request. BG Информационен лист за безопасност ще бъде представен при поискване. CS Na vyžádání je k°dispozici bezpečnostní list. FI Käyttöturvallisuustiedote toimitetaan pyynnöstä. PL Karta charakterystyki dostępna na żądanie. RO Fișa cu date de securitate disponibilă la cerere. SK Na požiadanie možno poskytnúť kartu bezpečnostných údajov. SV Säkerhetsdatablad finns att rekvirera.

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	EUH401
EN	To avoid risks to human health and the environment, comply with the instructions for use.
BG	За да се избегнат рискове за човешкото здраве и околната среда, спазвайте инструкциите за употреба.
CS	Dodržujte pokyny pro používání, abyste se vyvarovali rizik pro lidské zdraví a životní prostředí.
FI	Noudata käyttöohjeita ihmisen terveydelle ja ympäristölle aiheutuvien vaarojen välttämiseksi.
PL	W celu uniknięcia zagrożenia dla zdrowia ludzi i środowiska, należy postępować zgodnie z instrukcją użycia.
RO	Pentru a evita riscurile pentru sănătatea umană și mediu, a se respecta instrucțiunile de utilizare.
SK	Dodržievajte návod na používanie, aby ste zabránili vzniku rizík pre zdravie ľudí a životné prostredie.
SV	För att undvika risker för människors hälsa och för miljön, följ bruksanvisningen.

2.3 Other hazards

Compliance with PBT and vPvB criteria - does not meet PBT and vPvB criteria.

Does not contain destroyers of the endocrine system, in the amount of $\geq 0,1\%$

Does not contain substances in nanoforms in accordance with the Regulation (EC) No 2020/878.

Section 3: Composition/information on ingredients

3.1. SUBSTANCES:

Not applicable

3.2. MIXTURES:

Product based on below mentioned hazardous ingredients:

Chemical name (IUPAC)	EC #	CAS #	Concentration, %	Classification (CLP/GHS)	Reach reg #
Isopropyl alcohol	200-661-7	67-63-0	2-5	Eye irritation 2, H319; Flammable liquid 2, H225; STOT SE 3, H336	---
C8-C10 alkyl polyglycoside	500-220-1	68515-73-1	0,3-1,2	Eye damage 1 H318; Skin irritation 2 H315	--
Ethylenediaminetetraacetic acid tetrasodium salt tetrahydrate	603-569-9	13235-36-4	0,5-2,0	Acute toxicity 4, H302 Eye irritation 2, H319 Skin irritation 2, H315	---
2-butoxyethanol (ethylene glycol monobutyl ether)	203-905-0	111-76-2	0,5-2,0	Acute toxicity 4, H332 Acute toxicity 4, H312 Acute toxicity 4, H 302 Skin irritation 2, H315 Eye irritation 2, H319	---
Water and other ingredients, determined not to be hazardous	Balance				

For a full decoding of H-phrases, see Section 16.

Section 4: First aid measures

4.1 Description of first aid measures

In case of inhalation: provide the victim with access to fresh air and rest. In all cases of doubt, if symptoms persist, consult a doctor.

In case of skin contact: rinse skin with plenty of water. If irritation persists, consult a dermatologist.

In case of contact with eyes: immediately rinse eyes thoroughly with plenty of water; remove contact lenses if present, then continue rinsing for 10-15 minutes. Consult an ophthalmologist.

If swallowed: rinse mouth immediately, drink 200-300 ml of water with activated charcoal. If necessary, consult a doctor and show him/her the label of this container.

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4.2 Most important symptoms and effects, both acute and delayed

In case of inhalation: may cause respiratory tract irritation, dry cough, sore throat.

In case of skin contact: skin redness, irritation.

In case of eye contact: irritation, redness of the eyes, lacrimation.

If swallowed: nausea, weakness, dizziness.

4.3 Indication of any immediate medical attention and special treatment needed

There is no additional information about special first aid measures.

Section 5: Firefighting measures

5.1 Extinguishing media

Combustible properties: Not a flammable product. The product contains up to 5% flammable liquid (isopropyl alcohol).

Appropriate extinguishing agents: Apply fire extinguishing measures according to the environmental conditions. Spray water, CO₂, alcohol-resistant foam, dry chemical powder, sand.

Unsuitable extinguishing agents: Do not use a direct water jet on burning materials.

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products: carbon oxides, nitrogen oxides.

Special protective equipment for firefighters: Use the full set of protective clothing and breathing apparatus required for the specific fire area. Use eye protection.

5.3 Advice for firefighters

Use standard firefighting equipment such as self-contained breathing apparatus and full protective equipment. Use filters for organic vapors.

Do not allow fire extinguishing water to enter sewers or water sources. Dispose of contaminated water after extinguishing the fire in accordance with national regulations. Extinguish the fire from a sufficient distance using standard precautions.

Section 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel

Wear personal protective equipment for eyes and skin. Avoid contact with eyes and skin. Avoid inhalation of vapors. Cover with non-combustible material such as absorbent, collect, place in a container, hand over for disposal. Rinse the place of spillage with water. Ensure proper ventilation. In case of inadequate ventilation, use suitable breathing equipment. Stop or limit the leak at the source, if safe to do so. Evacuate personnel to a safe area. Restrict access to the spill area until cleanup is complete. Repair the leak if it can be done safely. Eliminate all sources of ignition.

6.1.2 For emergency responders

Use personal protective equipment. Stop or limit the leak at the source if it is safe to do so. Evacuate personnel to a safe area. Restrict access to the spill area until cleanup is complete. Eliminate all sources of ignition. Ensure that only qualified personnel are involved in the cleanup.

Small spills: cover with an absorbent (vermiculite, sand, earth), collect in a container for further disposal.

Large spills: Fence off spills with an earthen berm. Pump out the spilled substance with a pump. Cover the remaining product with non-combustible absorbent material, pump out the liquid, collect, place in a container, and hand over for disposal. Dispose of the product according to the rules specified in Section 13.

6.2 Environmental precautions

Do not allow the product to enter sewers, rivers, waterways, and other bodies of water or soil. Stop further leakage or spillage if safe to do so. Save the flushing water and dispose of it.

6.3 Methods and material for containment and cleaning up

Covering of sewage. Absorbent non-combustible material, water. Place in containers for disposal. Ventilate the affected area.

6.4 References to other sections

See Section 8 for information on personal safety precautions.

See Section 13 for information on waste disposal.

Section 7: Handling and storage

7.1 Precautions for safe handling

Use only for the intended purpose.

No special measures are required.

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Fire prevention: Keep away from heat sources, sparks and open flames, out of sunlight.

7.2 Conditions for safe storage, including any incompatibilities

Store at temperatures from +5°C to +30°C and relative humidity up to 80% at a distance of at least 1 m from heating devices. Store only in the original manufacturer's container, separately from food and drinking water, animal feed. Keep the container tightly closed. The guaranteed shelf life is 12 months from the date of manufacture under the conditions of storage.

Incompatibility with substances: strong oxidizing agents, acids, alkalis.

Hazardous decomposition products: isopropyl alcohol - 2-butanoic acid; during thermal decomposition - carbon oxides, nitrogen oxides.

7.3 Specific end use(s)

Materials recommended for packaging: polyethylene, glass, rubberized steel (corrosion-resistant) containers, stainless steel.

Section 8: Exposure controls/personal protection

8.1 Control parameters

In the air of the working area:

In accordance with MOH of Ukraine Order No. 1596 of 14.07.2020 «About approval of hygienic regulations for the permissible content of chemical and biological substances in the air of the work area»:

MPC for 2-butoxyethanol (CAS No. 111-76-2) = 5 mg/m³

MPC for isopropyl alcohol (CAS No. 67-63-0) = 10 mg/m³ (long-term exposure);
50 mg/m³ (short-term exposure).

Minimum safe exposure levels:

DNEL isopropyl alcohol (CAS No. 67-63-0) = 500 mg/m³ (systemic)

DNEL C8-C10 alkyl polyglycoside (CAS No. 68515-73-1) = 420 mg/m³ (systemic)

DNEL 2-butoxyethanol (CAS No. 111-76-2) = 98 mg/m³ (systemic)

8.2 Exposure controls

8.2.1 Appropriate engineering controls

Ventilation of workspaces, local exhaust systems.

8.2.2 Individual protection measures, such as personal protective equipment

Respiratory protection: No protection is required in adequately ventilated areas and for short periods of use. In case of insufficient ventilation or prolonged use, use an organic vapor respirator.

Eye protection: it is recommended to wear protective goggles (in accordance with European standard EN 166) when transfusing the product.

Skin protection: protective gloves (according to European standard EN 420). The choice of protective gloves is determined not only by the material, but also by other quality features, and there is a great deal of variation between different manufacturers. The product is a mixture of different substances, so it is not possible to calculate the resistance of the material from which the gloves are made, which necessitates a suitability test before use. The exact breakthrough time should be checked with the supplier of the protective gloves and adhered to.

Section 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

State:	homogeneous transparent or yellow liquid
Smell:	specific raw materials or flavors used
Threshold of smell:	not defined
pH of 1.0% aqueous solution:	8-9
Melting/freezing point:	-3°C
Boiling point or temperature range:	100°C
Flash point:	no data available
Intensity of evaporation:	depends on the temperature
Flammability indicators:	no data available
Upper and/or lower ignition limits or explosiveness:	no data available
Vapour pressure	no data available
Vapour density:	no data available
Relative density:	0.9-1.0 g/cm ³ , at a temperature of (20±1)°C
Solubility in water:	unlimited
The n-octanol/water partition coefficient:	no data available
Auto-ignition temperature:	no data available

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Decomposition temperature:	> 120°C
Viscosity:	from 400 to 800 sP
Explosive properties:	non-explosive product
Oxidizing properties:	no data available

9.2 Other information:

Currently, there is no additional data from available sources.

Section 10: Stability and reactivity

10.1 Reactivity

Oxidation and reduction

10.2 Chemical stability

The product is stable under normal storage and transportation conditions. Carbon monoxide and unidentified organic compounds may be produced by combustion.

10.3 Possibility of hazardous reactions

It does not polymerize. Reacts with acids. No dangerous reactions occur when used properly.

10.4 Conditions to avoid

Heat, direct sunlight, open flames and sparks.

10.5 Incompatible materials:

Corrosive metals (aluminum, zinc, nickel, copper and copper alloys), acids, oxidizing agents, organic chemicals.

10.6 Hazardous decomposition products:

isopropyl alcohol - 2-butanoic acid;

during thermal degradation - carbon oxides, nitrogen oxides.

Section 11: Toxicological information

Additional information on toxicological endpoints is available from the supplier upon request.

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

Mixture:

The mixture is not classified as toxicologically hazardous.

<u>Mutagenicity:</u>	no genotoxic properties were detected
<u>Carcinogenicity:</u>	no carcinogenic effect was detected
<u>Reproductive toxicity:</u>	not detected
<u>Chronic toxicity:</u>	not detected
<u>Teratogenicity:</u>	no teratogenic effects were detected
<u>Cumulative effect:</u>	poor
<u>Specific Target Organ Toxicity:</u>	isopropyl alcohol may cause drowsiness or dizziness (central nervous system, kidneys, liver)

Isopropyl alcohol (CAS No. 67-63-0):

It has a narcotic effect. It has an irritating effect on the respiratory tract and eyes, and causes headaches when exposed to high vapor concentrations. It may have a depressant effect on the central nervous system. Exposure to levels significantly exceeding the MPC may cause loss of consciousness.

When ingested, isopropyl alcohol is metabolized in the liver to acetone, which is responsible for its toxic effect. Small doses usually do not cause significant disorders. Serious toxic effects on a healthy adult by oral administration can be achieved at doses of more than 50 ml.

Acute oral toxicity: LD50 (rats) = 2735-5740 mg/kg; LD50 (mice) = 3600-4500 mg/kg.

The lethal doses for humans in the stomach are 3570 mg/kg and 5272 mg/kg.

Acute dermal toxicity: LD50(rabbits) = 12800 mg/kg.

Acute inhalation toxicity: LC50 (rats, 4 hours) = 72600 mg/m³; LC50 (mice, 2 hours) = 72600 mg/m³.

C8-C10 alkyl polyglycoside (CAS No. 68515-73-1):

Acute oral toxicity: LD50 (rats) >2000 mg/kg.

Ethylenediaminetetraacetic acid tetrasodium salt tetrahydrate (CAS No. 13235-36-4):

Acute oral toxicity: LD50 (rats) > 1000 mg/kg.

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2-butoxyethanol (CAS No. 111-76-2):

Acute oral toxicity: LD50 (rats) = 500-3000 mg/kg; LD50 (mice) = 1230 mg/kg; LD50 (guinea pigs) = 1200 mg/kg; LD50 (rabbits) = 300 mg/kg.

Acute inhalation toxicity: LD50 (rats) = 2.21-2.39 mg/l (4 hours).

Acute dermal toxicity: LD50 (rabbits) = 490 mg/kg; LD50 (guinea pigs) = 230 mg/kg.

Doses of minimal toxic effects:

ECmin = 959 mg/m³, inhalation, human, exposure for 8 hours (nausea, vomiting);

ECmin = 492 mg/m³, inhalation, human (headache).

11.2 Information on other hazards

Other relevant information on adverse health effects is not available

Section 12: Ecological information

12.1 Toxicity

Toxicity to aquatic organisms:

The mixture is not classified as hazardous to aquatic organisms.

General instructions: Do not allow the product to enter groundwater or sewage system undiluted or in large quantities.

Isopropyl alcohol (CAS No. 67-63-0):

Acute toxicity to fish: CL₅₀ > 5000 mg/l (crucian carp; 24 hours);

CL₅₀ = 900-1100 mg/l (Chub; 24 hours).

Acute toxicity to daphnia: EC₀ = 5102 mg/l (Daphnia magna). EC₁₀₀ = 10000 mg/l.

C8-C10 alkyl polyglycoside (CAS No. 68515-73-1):

Acute toxicity to fish: CL₅₀ = 126 mg/l (96 hours).

Chronic toxicity to fish: CL₅₀ = 3,2 mg/l (28 days).

Acute toxicity to daphnia: EC₅₀ > 100 mg/l (Daphnia magna, 48 hours) (OECD 202).

Ethylenediaminetetraacetic acid tetrasodium salt tetrahydrate (CAS No. 13235-36-4):

Acute toxicity to fish: CL₅₀ = 41-2070 mg/l (96 hours; anhydrous substance).

Acute toxicity to daphnia: EC₅₀ > 500 mg/l (Daphnia magna, 24 hours, anhydrous substance).

Acute toxicity to algae: EC₅₀ = 10- 100 mg/l (72 hours, anhydrous substance).

2-butoxyethanol (CAS No. 111-76-2):

Acute toxicity to fish: CL₅₀ = 1250 mg/l (96 hours, Minidia atlantica); CL₅₀ > 1000 mg/L (96 hours, rainbow trout/Oncorhynchus mykiss (OCDE, Directive 203).

CL₅₀ = 1395 mg/l (48 hours, Orpheus gold); CL₅₀ = 1700 mg/l (24 hours, crucian carp).

Acute toxicity to daphnia: EC₅₀ = 1054 mg/l (Daphnia magna, 48 hours); CL₅₀ = 1720 mg/l (Daphnia Magna, 24 hours).

Toxicity to terrestrial organisms:

There is no information about the product.

Isopropyl alcohol (CAS No. 67-63-0):

CL₅₀ > 6 mg/l (Rotifers, 124 hours of action).

12.2 Persistence and degradability

The product is biodegradable.

Isopropyl alcohol (CAS No. 67-63-0): MAC in water of reservoirs = 0.25 mg/l.

It is transformed in the environment. The product of transformation is acetone.

Biological dissimilation is easy (50-90%).

Stability in abiotic conditions: 30-70 days (highly stable).

COD = 2.4 mg/dm³; BOD 5 = 1.59 mg/dm³.

C8-C10 alkyl polyglycoside (CAS No. 68515-73-1):

Biodegradation in water > 99.4% (28 days).

12.3 Bioaccumulative potential

Accumulation in the body is unlikely.

12.4 Mobility in soil

No product information is available.

12.5 Results of PBT and vPvB assessment

The product does not meet the PBT and vPvB criteria.

12.6 Endocrine disrupting properties

This product does not contain any known or suspected endocrine disruptors.

12.7 Other adverse effects

Data on other environmental impacts are not specifically provided.

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Section 13: Disposal considerations

13.1 Waste treatment methods

Dispose of in accordance with local regulations. According to the European Industrial Waste Catalogue, the rules and regulations for waste disposal are not defined for the product, but for the type of use. Waste disposal rules and regulations should be established by the consumer, preferably with the mutual consent of the industrial waste disposal authority.

Product: Any leftover product that cannot be used for its intended purpose is sent for disposal to a recycling facility licensed by the Ministry of Environmental Protection of Ukraine to carry out this type of work. Collect spilled product using absorbent material in a separate container. Do not discharge the product into sewers or water sources. Small spills during use of the product can be washed off with water and poured into the sewer. State act of Ukraine - the Law of Ukraine "On Waste Management".

Contaminated packaging: Dispose of empty product containers as household waste. Containers that are not contaminated with the substance can be recycled. To clean the container: water, if necessary, cleaning agents. Containers and drug residues are destroyed in accordance with the requirements of the current state legislation.

Waste disposal code: Detergents 7710.3.1.23 (Ukraine)

Observe the safety precautions in Section 8 during disposal activities.

Section 14: Transport information

The product is transported by road (ADR), rail (RID).

Transportation is carried out in accordance with the rules of cargo transportation applicable to certain types of transport.

14.1 UN number or ID number: no classifications.

14.2 UN proper shipping name: no classifications.

14.3 Transport hazard class: no classifications.

14.4 Packing group: not applicable.

14.5 Environmental hazards

The mixture is not classified as hazardous to the aquatic environment.

For more information, see Section 12.

14.6 Special precautions for user

General measures for safe transportation must be observed.

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

Health, safety and environmental regulations/laws applicable to the mixture or substances.

Regulation (EC) No. 1907/2006 (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 production, placing on the market and use of certain hazardous substances, mixtures and articles: not available.

Rules/laws on labor protection, safety and environmental protection, and industrial safety applicable to this product. The Law of Ukraine "On Waste Management", "On Environmental Protection", the Law of Ukraine "On Withdrawal from Circulation, Processing, Recycling, Destruction or Further Use of Substandard and Hazardous Products", the Water Code of Ukraine, MOH of Ukraine Order No. 1596 of 14.07.2020 "About approval of hygienic regulations for the permissible content of chemical and biological substances in the air of the work area". It is necessary to take into account employment restrictions for adolescents. The Law of Ukraine "On Waste Management".

15.2 Chemical safety assessment:

Chemical safety assessment is not required.

Section 16: Other information

Corresponding P-, H-, EUH-phrases:

H225: Highly flammable liquid and its vapor

H302: Harmful if swallowed

H312: Harmful in contact with skin

H315: Causes skin irritation

H318: Causes serious eye damage

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H319: Causes severe eye irritation

H336: May cause drowsiness or dizziness.

H332: Harmful by inhalation

Precautionary statements:

P262 Do not get in eyes, on skin, or on clothing.

P264 Wash your hands thoroughly with soap and water after handling.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 If eye irritation persists: Get medical advice/attention.

EUH210 - Safety data sheet available on request.

EUH401 - To avoid risks to human health and the environment, comply with the instructions for use.

Abbreviations and acronyms:

ADR The European agreement on the international carriage of dangerous goods by road

RID The European Regulation on the International Carriage of Dangerous Goods by Rail

PBT Persistent bioaccumulative toxic substance

vPvB (very) Persistent, (very) Bioaccumulative and/or Toxic substance

CAS Chemical Abstracts Service

IUPAC international Union of Pure and Applied Chemistry

EC European Community

CLP Classification, Labelling and Packaging

REACH Registration, Evaluation and Authorisation of Chemicals

MPC Maximum permissible concentration

LD₅₀ Average Lethal Dose

EC_{min} Minimum effective concentration

EC₅₀ Effective concentration occurring in 50% of experimental animals

CL₅₀, LC₅₀ The concentration that causes the death of 50% of the subjects

EC₀ Maximum ineffective concentration.

COD Chemical oxygen demand

BOD Biochemical oxygen demand

STOT SE Chemicals that exhibit selective toxicity to target organs and/or organ systems upon single exposure.

DNEL Minimum safe exposure level

Training instructions:

In the production of the product - regular briefing of personnel on protection measures and handling of hazardous substances. When the product is used at car washes - regular instruction of personnel on the rules of work.

Additional Information:

Packaging: packaging from 0.2 L to 1000 L; filling on request.

The data contained in the safety data sheet is based on the amount of information and experience available to the manufacturer at the time. The consumer of the product is responsible for the consequences of its use for specific purposes. The information relates to this particular mixture. It may not be valid if this mixture is used in conjunction with any other materials or any other process.

Basic literature references and data sources:

Internal research reports

The Hazardous Substances Data Bank (HSDB)

ECHA database of registered substances

TU U 20.4-44243293-001:2021 Car care products. Technical specifications