

## SAFETY DATA SHEET

According to the Regulation (EC) No 1907/2006, Regulation (EC) No 1272/2008 (CLP),  
DSTU GOST 30333:2009

### 2020 Polyclean Universal detergent for glass "CLEAN GLASS"

Date: 23.06.2023

Version: 1.0

Supersedes the version: -

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## Section 1: Products and manufacturer identification

### 1.1 Products identification

Name: 2020 Polyclean Universal detergent for glass «CLEAN GLASS»

Trade name: «CLEAN GLASS»

### 1.2 Types of use of chemical products and non-recommended or prohibited uses

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

### 1.3 Manufacturer / supplier company identification

Limited liability company "Joint German-Ukrainian Enterprise "DrakenBerg"

Code: 42281913, Ukraine, 29016, Khmelnytskyi region, Khmelnytskyi, Yurii Kozlovsky Street, 7/1.

tel.: +380671111421 director Kushal Denys Viktorovych;

e-mail: [export.drakenberg@gmail.com](mailto:export.drakenberg@gmail.com); web: [drakenberg.com.ua](http://drakenberg.com.ua)

### 1.4 Emergency phone numbers

101 (Ukraine)

+380971445330 technologist Kravets Ihor Petrovych

## Section 2: Hazard identification

### 2.1 Mixture classification

The mixture is not classified as hazardous.

### 2.2 Marking elements

#### Hazard pictograms:

Not applicable

#### Signal word:

Not applicable

#### Indication of hazards:

Not applicable

#### Precautionary statements:

P262 Avoid contact with eyes

P264 Wash your hands thoroughly with soap and water after handling the product

P280 Wear protective gloves.

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

#### Additional Information:

EUH210 - Safety data sheet of chemical products can be obtained upon request

EUH401 - Follow the instructions for safe use to avoid risks to human health and the environment

### 2.3 Other dangers:

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.

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## Section 3: Composition / information about components

### 3.1 Substance:

Not applicable

### 3.2 Mixture:

Hazardous components are listed below

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	---

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.

### 4.2 The most important acute and delayed symptoms and consequences

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 Instructions on the need for first aid

There is no additional information about special first aid measures.

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### Section 5: Fire safety measures

#### 5.1 Fire extinguishing means

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, CO<sub>2</sub>, alcohol-resistant foam, dry chemical powder, sand.

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

#### 5.2 Special hazards that may be caused by the substance

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 Recommendations 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: Measures to eliminate emergency release

#### 6.1 Personal safety measures, protective equipment and procedure for emergency situations

##### 6.1.1 For general staff

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 response personnel

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 Measures to ensure environmental protection

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 materials for cleaning and neutralization

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.

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## Section 7: Handling and storage

### 7.1 Precautions for safe handling

Use only for the intended purpose.

No special measures are required.

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 uses

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

## Section 8: Hazardous exposure controls and personal protective equipment

### 8.1 Control parameters

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/m<sup>3</sup>

MPC for isopropyl alcohol (CAS No. 67-63-0) = 10 mg/m<sup>3</sup> (long-term exposure);  
50 mg/m<sup>3</sup> (short-term exposure).

Minimum safe exposure levels:

DNEL isopropyl alcohol (CAS No. 67-63-0) = 500 mg/m<sup>3</sup> (systemic)

DNEL C8-C10 alkyl polyglycoside (CAS No. 68515-73-1) = 420 mg/m<sup>3</sup> (systemic)

DNEL 2-butoxyethanol (CAS No. 111-76-2) = 98 mg/m<sup>3</sup> (systemic)

### 8.2 Impact control

#### 8.2.1 Appropriate technical control

Ventilation of workspaces, local exhaust systems.

#### 8.2.2 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.

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## Section 9: Physico-chemical properties

### 9.1 Information on basic physicochemical 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 <sup>3</sup> , 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
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 are 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 The possibility of dangerous 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.

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## Section 11: Toxicological information

### 11.1 Information on toxicological effects

#### Mixture:

The mixture is not classified as toxicologically hazardous.

Mutagenicity: no genotoxic properties detected

Carcinogenicity: no carcinogenic effect was detected

Reproductive toxicity: not detected

Chronic toxicity: not detected

Teratogenicity: no teratogenic effects were detected

Cumulative effect: poor

Specific effects on target organs: 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: LD<sub>50</sub> (rats) = 2735-5740 mg/kg; LD<sub>50</sub> (mice) = 3600-4500 mg/kg.

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

Acute dermal toxicity: LD<sub>50</sub>(rabbits) = 12800 mg/kg.

Acute inhalation toxicity: LC<sub>50</sub> (rats, 4 hours) = 72600 mg/m<sup>3</sup>; LC<sub>50</sub> (mice, 2 hours) = 72600 mg/m<sup>3</sup>.

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

Acute oral toxicity: LD<sub>50</sub> (rats) >2000 mg/kg.

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

Acute oral toxicity: LD<sub>50</sub> (rats) > 1000 mg/kg.

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

Acute oral toxicity: LD<sub>50</sub> (rats) = 500-3000 mg/kg; LD<sub>50</sub> (mice) = 1230 mg/kg; LD<sub>50</sub> (guinea pigs) = 1200 mg/kg;  
LD<sub>50</sub> (rabbits) = 300 mg/kg.

Acute inhalation toxicity: LD<sub>50</sub> (rats) = 2.21-2.39 mg/l (4 hours).

Acute dermal toxicity: LD<sub>50</sub> (rabbits) = 490 mg/kg; LD<sub>50</sub> (guinea pigs) = 230 mg/kg.

#### Doses of minimal toxic effects:

EC<sub>min</sub> = 959 mg/m<sup>3</sup>, inhalation, human, exposure for 8 hours (nausea, vomiting);

EC<sub>min</sub> = 492 mg/m<sup>3</sup>, inhalation, human (headache).

## Section 12: Information on environmental impact

### 12.1 Toxicity to the environment

#### 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.

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

Acute toxicity to fish:  $CL_{50} > 5000$  mg/l (crucian carp; 24 hours);

$CL_{50} = 900-1100$  mg/l (Chub; 24 hours).

Acute toxicity to daphnia:  $EC_0 = 5102$  mg/l (Daphnia magna).  $EC_{100} = 10000$  mg/l.

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

Acute toxicity to fish:  $CL_{50} = 126$  mg/l (96 hours).

Chronic toxicity to fish:  $CL_{50} = 3,2$  mg/l (28 days).

Acute toxicity to daphnia:  $EC_{50} > 100$  mg/l (Daphnia magna, 48 hours) (OECD 202).

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

Acute toxicity to fish:  $CL_{50} = 41-2070$  mg/l (96 hours; anhydrous substance).

Acute toxicity to daphnia:  $EC_{50} > 500$  mg/l (Daphnia magna, 24 hours, anhydrous substance).

Acute toxicity to algae:  $EC_{50} = 10-100$  mg/l (72 hours, anhydrous substance).

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

Acute toxicity to fish:  $CL_{50} = 1250$  mg/l (96 hours, Minidia atlantica);  $CL_{50} > 1000$  mg/L (96 hours, rainbow trout/Oncorhynchus mykiss (OCDE, Directive 203).

$CL_{50} = 1395$  mg/l (48 hours, Orpheus gold);  $CL_{50} = 1700$  mg/l (24 hours, crucian carp).

Acute toxicity to daphnia:  $EC_{50} = 1054$  mg/l (Daphnia magna, 48 hours);  $CL_{50} = 1720$  mg/l (Daphnia Magna, 24 hours).

#### Toxicity to terrestrial organisms:

There is no information about the product.

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

$CL_{50} > 6$  mg/l (Rotifers, 124 hours of action).

### 12.2 Stability and ability to decompose

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/dm<sup>3</sup>; BOD 5 = 1.59 mg/dm<sup>3</sup>.

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

Biodegradation in water > 99.4% (28 days).

### 12.3 Biocumulative potential

Accumulation in the body is unlikely.

### 12.4 Mobility in the soil

No product information is available.

### 12.5 PBT and vPvB assessment results

The product does not meet PBT and vPvB criteria.

### 12.5 Other adverse effects

Data on other environmental impacts are not specifically provided.

## Section 13: Waste disposal information

### 13.1 Waste management 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.

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**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: Transportation 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:** no classifications.

**14.2 Proper transport name:** no classifications.

**14.3 Transport hazard class:** no classifications.

**14.4 Packaging group:** not applicable.

**14.5 Dangers to the environment**

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

For more information, see Section 12.

**14.6 Special precautions for the user**

General measures for safe transportation must be observed.

**14.7 Transportation in bulk in accordance with Annex II to MARPOL 73/78 and the MSC Code**

Not applicable.

### Section 15: Regulatory information

**15.1 Normative and legal acts on ensuring protection of human health and the environment**

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.



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## 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

H319: Causes serious eye damage

H336: May cause drowsiness or dizziness.

H332: Harmful by inhalation

### **Precautionary statements:**

P262 Avoid contact with eyes.

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

P280 Wear protective gloves.

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 of chemical products can be obtained upon request.

EUH401 - Follow the instructions for safe use to avoid risks to human health and the environment.

### 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

LD<sub>50</sub> Average Lethal Dose

EC<sub>min</sub> Minimum effective concentration

EC<sub>50</sub> Effective concentration occurring in 50% of experimental animals

CL<sub>50</sub>, LC<sub>50</sub> The concentration that causes the death of 50% of the subjects

EC<sub>0</sub> 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.

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#### **Additional Information:**

Packaging: 0.5 liters; 1 liter; 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