

SAFETY DATA SHEET

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

2020 Polyclean Grease stain remover «ANTIGREASE»

Date: 13.07.2023

Version: 1.0

Supersedes the version: -

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Section 1: Products and manufacturer identification

1.1 Products identification

Name: Grease stain remover «ANTIGREASE»

Trade name: «ANTIGREASE»

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

A universal cleaner for removing grease, soot, grime, soot and other contaminants.

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; web: drakenberg.com.ua

1.4 Emergency phone numbers

101 (Ukraine)

+380971445330 technologist Kravets Ihor Petrovych

Section 2: Hazard identification

2.1 Mixture classification

Skin damage 1A

Eye damage 1

H314

2.2 Marking elements

Hazard pictograms:



GHS05

Signal word: DANGER

Indication of hazards:

H314: Causes severe skin burns and eye damage

Precautionary statements:

P101 If medical advice is needed, have product container or label at hand.

P103 Read label before use.

P260 Do not breathe vapours and spray.

P262 Avoid contact with eyes.

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

P280 Wear protective gloves, eye protection/

P301 + P330 + P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

P303 + P361 + P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

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

P310 Immediately call a doctor

P321 See label for special first aid measures

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P363 Wash contaminated clothing before reuse
P405 Store locked up
P501 Dispose of contents/container to national law

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.

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 #
Sodium hydroxide (caustic soda)	215-185-5	1310-73-2	5,0-10,0	Skin corrosion 1A, H314	01-2119457892-27-xxxx
C8-C10 alkyl polyglycoside	500-220-1	68515-73-1	1,0-4,0	Eye damage 1 H318; Skin irritation 2 H315	--
2-butoxyethanol (ethylene glycol monobutyl ether)	203-905-0	111-76-2	1,0-3,0	Acute toxicity 4, H332 Acute toxicity 4, H312 Acute toxicity 4, H 302 Skin irritation 2, H315 Eye irritation 2, H319	01-2119475108-36-xxxx
Cocamidopropyl betaine	263-058-8	61789-40-0	1,0-3,0	Eye irritation 2, H319 Acute toxicity 4, H302	---
Ethylenediaminetetraacetic acid tetrasodium salt tetrahydrate	603-569-9	13235-36-4	0,1-2,0	Acute toxicity 4, H302 Eye irritation 2, H319 Eye irritation 2, H315	---

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: immediately rinse the skin with plenty of water, apply a protective dressing, 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. DO NOT INDUCE VOMITING. Consult a doctor and show him/her the label of this container. There is a danger of strong corrosive effect on the stomach and esophagus.

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4.2 The most important acute and delayed symptoms and consequences

In case of inhalation: may cause irritation of the respiratory tract, dry cough, sore throat, difficulty breathing, headache, dizziness, nausea.

In case of skin contact: skin redness, irritation, inflammation, chemical burns, pain.

In case of eye contact: pain, risk of serious eye damage, irritation, redness of the eyes, lacrimation, blurred vision.

If swallowed: burning in the mouth, nausea, pain in the esophagus and abdomen, weakness.

4.3 Instructions on the need for first aid

There is no additional information about special first aid measures.

Section 5: Fire safety measures

5.1 Fire extinguishing means

Combustible properties: Not a flammable product, but polymer packaging may be involved in a fire.

Appropriate extinguishing agents: Apply fire extinguishing measures according to the environmental conditions. Spray water, CO₂ 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 mixture

Hazardous combustion products: carbon oxides, sodium oxide, sulfur oxides, nitrogen oxides, peroxides.

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

5.3 Recommendations for firefighters

Evacuate personnel not involved in firefighting from the area. Use standard firefighting protective equipment, such as self-contained breathing apparatus and a full package of protective equipment. Use filters for organic vapors. Spilled product creates a slippery surface.

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. Do not inhale vapors and aerosols.

In case of spillage: Cover with an absorbent, collect, place in a container, and hand over for disposal. Rinse the spill area with plenty of water. Collect used water for disposal. Ensure proper ventilation.

In case of inadequate ventilation, use suitable breathing equipment. Stop or contain 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 without risk. Spilled product creates a slippery surface. Eliminate all ignition sources.

6.1.2 For emergency response personnel

Use personal protective equipment. Stop or contain 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. Repair leaks if it is possible to do so without risk. Eliminate all sources of ignition. Ensure that only qualified personnel carry out the cleanup.

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

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Large spills: Fence off spills with an earthen berm. Cover with a non-combustible absorbent material, pump out the liquid, collect, place in a container, and hand over for disposal. Eliminate large spills by pumping out. 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.

Section 7: Handling and storage

7.1 Precautions for safe handling

Use only for the intended purpose. All work with the product should be carried out using individual skin protection for hands (EN 420), eyes (EN 166). Avoid inhalation. Work with the product shall be carried out in accordance with the rules of labor protection. Avoid splashing and getting the product on the face and in the eyes. Work related to the use of the product should be carried out in rooms equipped with supply and exhaust ventilation. If it is not possible to provide sufficient ventilation, use respiratory protection equipment (EN 133, EN 136, EN 140, EN 143). Change clothes after work and wash hands thoroughly.

Fire prevention: Keep away from heat sources and open flames.

7.2 Conditions for safe storage, including any incompatibilities

Store at temperatures from +5°C to +25°C and relative humidity up to 80%, at a distance of at least 1 m from heating devices. May cause corrosion of metals. Store only in corrosion-protected containers of the manufacturer, separately from food and drinking water, animal feed. Keep the container tightly closed. Guaranteed shelf life: 24 months from the date of manufacture, subject to storage conditions.

Incompatibility with substances: corrosive metals (aluminum, zinc, nickel, copper, copper alloys), acids, oxidizing agents, organic chemicals.

Hazardous decomposition products: sodium oxide, carbon oxides, sulfur oxides, nitrogen oxides, peroxides

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 the air of the work 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 sodium hydroxide (CAS No. 1310-73-2) = 0.5 mg/m³ (sprays)

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

Minimum safe exposure levels:

DNEL - sodium hydroxide (CAS No. 1310-73-2) = 1.0 mg/m³ (local)

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

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

DNEL - cocamidopropyl betaine (CAS No. 61789-40-0) = 8.22 mg/m³ (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. Respiratory protection equipment in accordance with European standards EN 133, EN 136, EN 140, EN 143.

Eye protection: sealed goggles in accordance with European Standard EN 166. Emergency eyewash facilities and showers should be provided in the production of the product in the vicinity of any potential exposure site.

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. If the product is a mixture of different substances, it is not possible to calculate the resistance of the glove material, which necessitates a test for suitability before use. Check with the supplier of the protective gloves for the exact tearing time and observe it. Use special suitable clothing. Gloves made of the following materials are unsuitable: dense material, leather.

Section 9: Physico-chemical properties

9.1 Information on basic physicochemical properties

State:	homogeneous transparent colorless or yellow liquid
Smell:	specific, of the used raw materials or flavoring
Threshold of smell:	not defined
pH in the product:	12,4 - 12,8
Melting/freezing point:	-1°C
Boiling point or temperature range:	100°C
Flash point:	nonflammable liquid
Intensity of evaporation:	depends on the temperature
Flammability indicators:	nonflammable liquid
Upper and/or lower ignition limits or explosiveness:	nonflammable liquid
Vapour pressure:	no data available
Vapour density:	no data available
Relative density:	1,110-1,120 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:	not auto-combusting
Decomposition temperature:	> 120°C
Viscosity (dynamic):	from 0,5 to 1,0 Pa·s
Explosive properties:	non-explosive product
Oxidizing properties:	no data available

9.2 Other information

Currently, there is no additional data from available sources

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Section 10: Stability and reactivity

10.1 Reactivity

Acid-alkaline

10.2 Chemical stability

The product is stable under the conditions of storage and transportation.

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

Heating, direct sunlight.

10.5 Incompatible materials

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

10.6 Hazardous decomposition products:

Sodium oxide, carbon oxides, sulfur oxides, nitrogen oxides, peroxides.

Section 11: Toxicological information

11.1 Information on toxicological effects

Mixture:

Skin damage 1A

Eye damage 1

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: not detected

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

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

Sodium hydroxide (CAS No. 1310-73-2):

Lethal dose for humans 10-20 mg/kg

Lethal dose for humans (oral intake) = 4,95 mg/kg

Acute oral toxicity: LD_{min} (rabbits) = 500 mg/kg

Acute inhalation toxicity: DNEL = 1 mg/m³

C8-C10 alkylpolyglycoside (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

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

Acute oral toxicity: LD₅₀ (rats) = 300-2000 mg/kg; LD₅₀ (mice) = 1230 mg/kg;

LD₅₀ (guinea pigs) = 1200 mg/kg; LD₅₀ (rabbits) = 300 mg/kg.

Acute inhalation toxicity: LC₅₀ (rats) > 2 mg/l (4 hours); LC₅₀ (rats) = 486 ppm (4 hours)

Acute dermal toxicity: LD₅₀ (rabbits) = 1000-2000 mg/kg; LD₅₀ (rats) > 2000 mg/kg

Minimal toxicity doses:

EC_{min} = 959 mg/m³, Inhalation, human, exposure for 8 hours (nausea, vomiting);

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$EC_{min} = 492 \text{ mg/m}^3$, Inhalation, human (headache)

Cocamidopropyl betaine (CAS No. 61789-40-0):

Acute oral toxicity: LD_{50} (rats) = 5 g/kg

Section 12: Information on environmental impact

12.1 Toxicity to the environment

Accumulation of the mixture substances in water and soil has a negative impact on the aquatic environment. Working solutions of the product have low environmental impact. Harmful to drinking water and soil. Flushing a large amount of the product into the sewer can lead to an increase in pH, which is harmful to living organisms.

Toxicity to aquatic organisms:

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

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

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

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

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

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

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

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

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

Acute toxicity to fish: $CL_{50} = 1250 \text{ mg/l}$ (96 hours, Minidia atlantica); $CL_{50} = 1474 \text{ mg/l}$ (96 hours, Rainbow trout/Oncorhynchus mykiss (OCDE, Directive 203)

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

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

Acute toxicity to algae: $ErC_{50} = 1840 \text{ mg/l}$ (72 hours, anhydrous substance)

NOEC chronic $> 100 \text{ mg/l}$ (21 days, Brachydanio rerio (zebrafish))

Sodium hydroxide (CAS No. 1310-73-2):

Acute toxicity for daphnia: $EC_{50} = 40,4 \text{ mg/l}$ water (Ceriodaphnia Sp., 48 hours)

Toxicity to terrestrial organisms:

There is no information about the product.

12.2 Stability and ability to decompose

The product is biodegradable.

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

Biochemical oxygen demand (BOD -5) $1,3 \text{ g O}_2/\text{g}$ of substance

Chemical oxygen demand (COD) $2,18 \text{ g O}_2/\text{g}$ of substance

C8-C10 alkylpolyglycoside (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 data available. Sodium hydroxide is converted to sodium carbonate, thus limiting the possibility of impact on all objects of the natural environment.

12.5 PBT and vPvB assessment results

The product does not meet PBT and vPvB criteria.

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12.6 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.

Product: Any residual 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. Spilled product is collected using an absorbent material in a separate container. Do not discharge the product into drains or water sources. Small spills during use of the product can be washed off with water and poured down the drain. State act of Ukraine - the Law of Ukraine «On Waste Management».

Contaminated packaging: Contaminated containers with adsorbent are disposed of in accordance with waste management regulations. Containers that are not contaminated with the substance can be recycled. To clean the container: use water, if necessary, cleaning agents.

Waste disposal code: Detergents 7710.3.1.23 (Ukraine).

European waste catalog: 20 01 15 - alkalis.

Observe the safety precautions in Section 8 during disposal activities.

Section 14: Transportation information

The product is transported by road (ADR), rail (RID), sea (IMDG), air (ICAO).

14.1 UN number: 1760

14.2 Proper transport name: Corrosive liquid, n.o.s. (sodium hydroxide)

14.3 Transport hazard class: 8

14.4 Packaging group: III

14.5 Dangers to the environment

The mixture substances accumulation in water and soil has a negative impact on the aquatic environment. Product working solutions have a low impact on the environment. Harmful to drinking water and soil. Flushing large quantities of the product down the drain can lead to an increase in pH, which is harmful to living organisms.

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 products: not available.

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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:

H302: Harmful if swallowed

H312: Harmful in contact with skin

H314: Causes severe skin burns and eye damage

H315: Causes skin irritation

H318: Causes serious eye damage

H319: Causes serious eye irritation

H332: Harmful if inhaled

Precautionary statements:

P101 If medical advice is needed, have product container or label at hand.

P103 Read label before use.

P260 Do not breathe vapours and spray.

P262 Avoid contact with eyes.

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

P280 Wear protective gloves

P301 + P330 + P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

P303 + P361 + P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

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

P310 Immediately call a doctor

P321 See label for special first aid measures

P363 Wash contaminated clothing before reuse

P405 Store locked up

P501 Dispose of contents/container to national law

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

IMDG European Agreement concerning the International Carriage of Dangerous Goods by Sea

ICAO European Agreement concerning the International Carriage of Dangerous Goods by Air

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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 _{min}	Minimum lethal dose
LD ₅₀	Average Lethal Dose
EC _{min}	Minimum effective concentration
EC ₅₀ , ErC ₅₀	Effective concentration occurring in 50% of experimental animals
LC ₅₀	The concentration that causes the death of 50% of the subjects
DNEL	Minimum safe exposure level
NOEC	A concentration that does not cause a visible adverse effect
COD	Chemical oxygen demand
BOD	Biochemical oxygen demand

Training instructions:

During the production of the product, the staff is regularly instructed on the protection and handling of hazardous substances.

Additional Information:

Packaging: from 500 ml to 5 liters; 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