

SAFETY DATA SHEET

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

Polychrom 2020 Concentrated agent for contactless washing «ACTIVE FOAM 55»

Date: 31.10.2023

Version: 1.0

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Section 1: Products and manufacturer identification

1.1 Products identification

Name: Polychrom 2020 Concentrated agent for contactless washing «ACTIVE FOAM 55»

Trade name: «ACTIVE FOAM 55»

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

Concentrated higt-foam agent for contactless car wash. For removing various types of dirt.

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 corrosion 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

Cautions:

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

P103 Read label before use

P260 Do not breathe vapours or spray

P262 Do not get in 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.

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

P310 Immediately call a POISON CENTER or doctor/physician.

P321 Specific treatment (see first medical aid on this label).

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

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 #
1-hydroxyethylidene-1,1 diphosphonic acid	220-552-8	2809-21-4	5,0-15,0	Eye irritation 2, H319 Corrosive to metals, H290	---
Sodium lauryl sulfate	221-416-0	68891-38-3	5,0-15,0	Acute toxicity 4, H302 Skin irritation 2, H315 Eye irritation 1, H319 Hazardous to the aquatic environment. 1 H410 Hazardous to the aquatic environment 3 H412	---
Ethylenediaminetetraacetic acid tetrasodium salt tetrahydrate	603-569-9	13235-36-4	5,0-15,0	Acute toxicity 4, H302 Eye irritation 2, H319 Skin irritation 2, H315	---
Cocamidopropyl betaine	263-058-8	61789-40-0	5,0-15,0	Eye irritation 2, H319 Acute toxicity 4, H302	---
Sodium hydroxide (caustic soda)	215-185-5	1310-73-2	5,0-10,0	Skin corrosion 1A, H314 Corrosive to metals, H290	01- 2119457892- 27-xxxx
Sodium 2-ethyl hexyl sulfate	204-812-8	126-92-1	3,0-10,0	Skin irritation 2, H315 Serious eye damage 1, H318	---

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

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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 bandage, 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 a corrosive effect on the stomach and esophagus.

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.

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

In case of eye contact: pain, blurred vision, 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

Flammable properties: The product does not burn, but the polymer packaging can be involved in a fire.

Use appropriate extinguishing agents: Apply fire extinguishing measures according to the environmental conditions. Spray water, CO2 foam, dry chemical powder, sand.

Unsuitable extinguishing media: 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, sodium oxide, sulfur 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. 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. Cover with non-combustible material - absorbent, collect, place in a container, hand over for disposal. Rinse the spill area with plenty of water. Collect used water for disposal. Ensure proper ventilation. In case of insufficient ventilation, use suitable breathing equipment. Stop or limit the leakage at the source, if safe

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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 sources of ignition.

6.1.2 For emergency response personnel

Use personal protective equipment. Stop or limit the leakage 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 the leak if it can be done safely. Eliminate all sources of ignition. Ensure that cleanup is carried out by qualified personnel only.

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. Cover 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.

Section 7: Handling and storage

7.1 Precautions for safe handling

Use only for the intended purpose.

All work with the product must be carried out using personal skin protection equipment (protective clothing, rubberised apron, rubber gloves, rubber boots (EN 420, EN 13688), eyes (sealed goggles, EN 166). Do not inhale vapours. Work with the product shall be carried out in accordance with the Occupational Safety and Health Regulations. Avoid splashing and getting the product on the face and in the eyes. Work related to the use of the product shall be carried out in rooms equipped with supply and exhaust ventilation. If it is not possible to ensure sufficient ventilation of the room, use respiratory protection (EN 133, EN 136, EN 140, EN 143). After work, change your clothes and wash your hands thoroughly.

Fire prevention: Keep away from heat sources 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 (cooling) devices. May cause corrosion of metals. Store only in a corrosion-protected container of the manufacturer, separately from food and drinking water, animal feed. Keep the container tightly closed. The guaranteed shelf life is 24 months from the date of manufacture under the conditions of storage.

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 during thermal decomposition.

7.3 Specific end uses

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

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Section 8: Hazardous exposure controls and personal protective equipment

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 sodium hydroxide (CAS No. 1310-73-2) = 0.5 mg/m³ (aerosol), hazard class 2

MPC for 1-hydroxyethylidene-1,1-diphosphonic acid (CAS No. 2809-21-4) = 2 mg/m³ (a), hazard class 3

Minimum safe exposure levels:

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

DNEL sodium 2-ethyl hexyl sulfate (CAS No. 126-92-1) = 285 mg/m³ (systemic)

DNEL 1-hydroxyethylidene-1,1-diphosphonic acid (CAS No. 2809-21-4) = 12 mg/m³ (systemic)

DNEL sodium lauryl sulfate (CAS No. 68891-38-3) = 175 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: respiratory protection equipment in accordance with European standards EN 133, EN 136, EN 140, EN 143.

In case of short-term contact with the substance or exposure to low concentrations, use a filtering respiratory protection device. In case of intensive or longer exposure, use a self-contained respiratory protection device.

Protection is not required if the room is adequately ventilated

Eye protection: sealed goggles in accordance with European standard EN 166.

Skin protection: rubber gloves (in accordance with European standard EN 420), rubber boots, overalls in accordance with European standard EN 13688 (working suit or rubber apron).

Only use gloves with chemical protection marked with the CE symbol of category III (EN 374). Glove material is butyl rubber.

Gloves made of material are suitable for constant contact with the product: Butyl rubber 0.7 mm, 480 minutes.

Material gloves are suitable for protection against splashes: Nitrile rubber 0.4 mm, 30 minutes.

Replace the gloves at the slightest sign of a breakthrough.

Gloves made of the following materials are not suitable: dense material, leather.

Section 9: Physico-chemical properties

9.1 Information on basic physicochemical properties

State:	homogeneous transparent liquid of the color of the dye used
Smell:	specific raw material or flavor used
Threshold of smell:	not defined
pH of 1.0% aqueous solution:	12,4-12,8
Melting/freezing point:	-1°C
Boiling point or temperature range:	98°C
Flash point:	no data available
Intensity of evaporation:	no data available, depends on temperature
Flammability indicators:	non-flammable liquid
Upper and/or lower ignition limits or explosiveness:	no data available

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Vapour pressure:	no data available
Vapour density:	no data available
Relative density:	1.11-1.13 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
Decomposition temperature:	> 120°C
B'Viscosity:	from 0.5 to 1,0 Pa·s
Вибухонебезпечні властивості:	non-explosive product
Explosive 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

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, organic chemicals.

10.6 Hazardous decomposition products:

During thermal degradation - sodium oxide, carbon oxides, sulfur oxides, nitrogen oxides.

Section 11: Toxicological information

11.1 Information on toxicological effects

Mixture:

Skin corrosion 1A

Eye damage 1

Mutagenicity: no genotoxic properties were 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

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

Lethal dose for humans 10-20 mg/kg

The lethal dose for humans (oral intake) is 4.95 mg/kg

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

Acute inhalation toxicity: DNEL = 1 mg/m³

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

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

Lauryl sodium sulfate (CAS No. 68891-38-3):

Acute oral toxicity: LD₅₀ (rats) = 1700-5000 mg/kg

1-hydroxyethylidene-1,1-diphosphonic acid (CAS No. 2809-21-4):

Acute oral toxicity: LD₅₀ (rats) = 2910 mg/kg

Acute dermal toxicity: LD₅₀ (rabbits) > 6310 mg/kg

Sodium 2-ethyl hexyl sulfate (CAS No. 126-92-1):

Acute oral toxicity: LD₅₀ (rats) = 2840 mg/kg (similar to OCDE Directive 401)

Acute dermal toxicity: Irritating to the skin of rabbits (OCDE, Directive 440)

Risk of severe eye damage (OCDE, Directive 405)

The substance has not been tested, the data are taken from substances of similar structure or composition.

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

Acute oral toxicity: LD₅₀ (rats) = 5 g/kg

Section 12: Information on environmental impact

12.1 Toxicity to the environment

Accumulation of the mixture of 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 sewage system can lead to an increase in pH, which is harmful to living organisms.

Toxicity to aquatic organisms:

Lauryl sodium sulfate (CAS No. 68891-38-3):

Acute toxicity to fish: CL₅₀ = 7.1 mg/l (96 hours, Brachydanio rerio (zebrafish)) (OECD 203);

NOEC (Oncorhynchus mykiss): 0.1 mg/l/28 days (OECD 204).

Acute toxicity to Daphnia: EC₅₀ = 7.2 mg/l (Daphnia magna, 48 hours) (OECD 202);

NOEC = 0.27 mg/l (Daphnia magna, 21 days) (OECD 211).

1-hydroxyethylidene-1,1-diphosphonic acid (CAS No. 2809-21-4):

Acute toxicity to fish: CL₅₀ = 8132 mg/l (96 hours, Cyprinodon variegatus) (OECD 203);

CL₅₀ = 1212 mg/l (96 hours, Ictalurus punctatus) (OECD 203);

Acute toxicity to Daphnia: EC₅₀ = 297 mg/l (Daphnia magna, 48 hours) (OECD 202);

NOEC ≥ 25 mg/l (Daphnia magna, 28 days)

Chronic toxicity to fish: CL₅₀ = 23 mg/l (Oncorhynchus mykiss, 60 days).

Sodium 2-ethyl hexyl sulfate (CAS No. 126-92-1):

Acute toxicity to fish: CL₅₀ > 100 mg/l (96 hours, Brachydanio rerio (zebrafish)) (OECD 203);

Acute toxicity to daphnia: EC₅₀ > 100 mg/l (Daphnia magna, 48 hours) (Directive 92/69/EEC)

Acute toxicity to algae: EC₅₀ > 100 mg/l (growth factor, green algae, 72 hours) (Directive 92/69/EEC)

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

Acute toxicity to daphnia: EC₅₀ = 40.4 mg/l water (Ceriodaphnia sp., 48 hours)

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)

Toxicity to terrestrial organisms:

There is no information about the product.

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12.2 Stability and ability to decompose

The product is biodegradable.

12.3 Bioaccumulative potential

Accumulation in the body is unlikely.

12.4 Mobility in soil

No product data is 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 the PBT and vPvB criteria.

12.6 Other adverse effects

Data on other environmental impacts are not specifically provided

Section 13: Waste disposal information

13.1 Waste management methods

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. Collect spilled product using absorbent material in a separate container. Prevent the product from being discharged into sewers and water sources. The state act of Ukraine is the Law of Ukraine "On Waste Management".

Contaminated packaging: Contaminated adsorbent containers are disposed of in accordance with waste management regulations. Containers not contaminated with the substance can be recycled. To clean the container: water, cleaning agents, if necessary. Containers and drug residues are destroyed in accordance with the requirements of the current state legislation.

Waste disposal code: Detergents 7710.3.1.23

European waste catalog: 20 01 15 - alkalis

Observe the safety precautions in Section 8 during disposal.

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 Packing group: III

14.5 Dangers 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 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.

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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.

EU Regulation (EC) No 1907/2006 (REACH) Annex XIV - List of substances to be authorised.

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: none.

Regulations/laws on labour protection, health and safety, environmental protection, and industrial safety applicable to this product. Law of Ukraine «On Waste Management», «On Environmental Protection», The Law of Ukraine «On Withdrawal from Circulation, Recycling, Utilisation, 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.

15.2 Chemical safety assessment:

It is not necessary to conduct a chemical safety assessment.

Section 16: Other information

Corresponding P-, H-, EUH-phrases:

H290: May cause corrosion of metals

H302: Harmful if swallowed

H314: Causes severe skin burns and eye damage

H315: Causes skin irritation

H318: Causes serious eye damage

H319: Causes severe eye irritation

H410: Very toxic to aquatic organisms with long-term effects

H412: Harmful to aquatic organisms with long-term consequences

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 Do not get in eyes.

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

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

P310 Immediately call a POISON CENTER or doctor/physician.

P321 Specific treatment (see first medical aid on this label).

P363 Wash contaminated clothing before reuse.

P405 Store locked up.

P501 Dispose of contents/container to national law

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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
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 (an international union of theoretical 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
LC ₅₀	Average lethal dose
EC ₅₀	Effective concentration occurring in 50% of experimental animals
CL ₅₀	Concentration causing death of 50% of experimental animals
DNEL	The obtained level of effect absence
NOEC	The No-Observed Effect Concentration

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: plastic containers, packaging from 1,1 kg to 22 kg; 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