

SAFETY DATA SHEET

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

Polychrom 2020 Concentrated wax with orange scent «ORANGE WAX»

Date: 27.07.2023

Version: 1.0

Supersedes the version: -

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Section 1: Products and manufacturer identification

1.1 Products identification

Name: Polychrom 2020 Concentrated wax with orange scent «ORANGE WAX»

Trade name: «ORANGE WAX»

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

Concentrated car wash for rinsing the car. Provides water repellency and additional shine to the surface.
Protects the paintwork from colour loss.

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

Aquatic chronic toxicity 1

Skin damage 1

Eye damage 1

Acute toxicity 4

H302; H314; H400

2.2 Marking elements

Hazard pictograms:



GHS08



GHS09



GHS07

Signal word: DANGER

Indication of hazards:

H302: Harmful if swallowed

H314: Causes severe skin burns and eye damage

H400: Very toxic to aquatic life

Precautionary statements:

P260 Do not breathe vapours

P270: Do not eat, drink or smoke when using this product

P273: Avoid release to the environment

P280 Wear protective gloves

P310: Immediately seek first aid

P321: See label for special first aid measures

P363: Wash contaminated clothing before reuse

P391: Collect spillage

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.

P301 + P330 + P331: IF SWALLOWED: rinse mouth. Do NOT induce vomiting. Seek first aid from a doctor.

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

P405 Store locked up.

P501 Dispose of the content in accordance with 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 #
2-butoxyethanol (ethylene glycol monobutyl ether)	203-905-0	111-76-2	5-15	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
Alkyl dimethyl benzylammonium chloride	270-325-2	68424-85-1	1-5	Skin corrosion 1B, H314; Acute toxicity 4, H302; Acute toxicity 4, H312; Aquatic toxicity 1, H400.	---

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

Section 4: First aid measures

4.1 Description of first aid measures

If inhaled: 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: remove contaminated clothing and footwear immediately. Wash the skin immediately with plenty of water. Immediate medical treatment is necessary because the untreated skin corrosion processes are slow and wounds heal poorly.

In case of eye contact: immediately rinse the eyes thoroughly with plenty of water; remove contact lenses if present, then continue rinsing for 10-15 minutes. Protect the intact eye. Keep the eye wide open during rinsing. Consult an ophthalmologist.

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If swallowed: rinse the mouth immediately and then drink plenty of water. Never put anything in the mouth of a person who is unconscious. DO NOT INDUCE VOMITING. Consult a doctor and show them the label of this container. There is a danger of a strong corrosive effect on the stomach and oesophagus.

4.2 The most important acute and delayed symptoms and consequences

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

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

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

If swallowed: heartburn in the mouth, nausea, pain in the oesophagus and abdomen, weakness.

4.3 Instructions on the need for first aid

If swallowed, the material may enter the lungs by inhalation and cause chemical pneumonia. Take appropriate treatment.

Section 5: Fire safety measures

5.1 Fire extinguishing means

Combustible properties: is not a flammable product, but polymer packaging can be involved in a fire.

Suitable extinguishing agents: apply fire extinguishing measures according to the environmental conditions. Sprayed water, CO₂ foam, dry chemical powder, sand.

Unsuitable extinguishing agents: do not use a direct water stream on burning materials.

5.2 Special hazards that may be caused by the mixture

Hazardous combustion products: carbon oxides, peroxides.

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

5.3 Recommendations for firefighters

Evacuate people from the area. When extinguishing a fire or diluting pollutants, do not allow wastewater to enter water supplies, sewers or drinking water sources. Firefighters should use standard protective equipment and self-contained personal breathing apparatus in confined spaces (SCBA). Use filters for organic vapours. Use the sprayed water to cool surfaces exposed to fire and to protect personnel. Dispose of any 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

Use personal protective equipment for eyes and skin. Avoid contact with eyes and skin. Do not inhale vapours and aerosols.

If spilled: Cover with an absorbent, collect, place in a container, and hand over for disposal. Rinse the spillage 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 clean-up is complete. Repair the leak if it can be done without risk. Eliminate all sources of ignition.

6.1.2 For emergency response personnel

Wear personal protective equipment. If there is a possibility of splashing or eye contact, chemical goggles are recommended.

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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 clean-up is complete. Repair the leak if it can be done safely. Eliminate all sources of ignition. Ensure that clean-up is carried out by qualified personnel only.

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

Large spills: Fence off spills with an earthen berm. Cover with non-combustible inert material - absorbent, 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 Environmental protection measures

Make bunds at a considerable distance from the spilled liquid for subsequent collection and disposal. 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 neutralisation

Sewerage coating. Absorbent non-flammable inert 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. Use in a dilute aqueous solution. All work with the product should be carried out using individual hand protection (EN 420), eye protection (EN 166). Avoid inhalation. Work with the product shall be carried out in accordance with the rules of labour protection. 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.

7.2 Conditions for safe storage, including any incompatibilities

Store at temperatures between +5°C and +30°C and relative humidity up to 80% at a distance of at least 1m away from heating devices, out of sunlight, in a well-ventilated place. Store only in the manufacturer's container, 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, subject to storage conditions.

Material incompatibility: for containers - plastic, butyl rubber, natural rubber, nitrile rubber.

Hazardous decomposition products: carbon oxides, peroxides.

7.3 Specific end uses

Recommended packaging materials: carbon steel, stainless steel. Opened containers must be properly sealed and stored upright to prevent leakage.

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»:

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

Minimum safe exposure levels:

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

8.2 Impact control

8.2.1 Appropriate technical control

The level of protection and the types of control measures required will depend on the potential exposure conditions. Adequate ventilation must be provided to prevent exposure to exceed permissible exposure limits. Use explosion-proof ventilation equipment.

8.2.2 Personal protective equipment

Respiratory protection: in case of intensive or prolonged contact with the substance, with insufficient ventilation, use respiratory protection equipment in accordance with European standards EN 133, EN 136, EN 140, EN 143. Use filters for organic vapours. Respiratory protection is not required for adequate ventilation or short-term use.

Eye protection: avoid contact with eyes. In case of possible contact, it is recommended to wear protective goggles in accordance with the European standard EN 166. Emergency eyewash facilities and showers should be provided in the production and use of the product in the vicinity of any potential exposure site.

Skin protection:

Hand protection: Any specific information regarding gloves is based on publications and data from the glove manufacturer. The suitability and service life of gloves will depend on the conditions of use. Please contact the glove manufacturer for advice on glove selection and shelf life for your application. Inspect and replace gloves if they are worn or damaged. Chemical resistant gloves are recommended. Nitrile rubber with a minimum thickness of 0.38 mm or a compatible protective barrier material with high performance and impregnation rate for continuous contact under conditions of use for at least 480 minutes in accordance with the following standards CEN EN 420 and EN 374.

Body protection: Chemical resistant clothing is recommended.

Section 9: Physico-chemical properties

9.1 Information on basic physicochemical properties

State:	homogeneous transparent colourless or yellow liquid
Smell:	specific of the used raw material or flavoring
Threshold of smell:	not defined
pH of a 1 % aqueous solution:	3-4
Melting/freezing point:	-2°C
Boiling point	
or range of boiling points:	100°C start of boiling
Flash point:	no data available
Evaporation intensity:	depends on temperature
Flammability indicators:	non-flammable liquid
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 the temperature of (20±1)°C
Solubility in water:	dissolves unlimitedly
Solubility in organic solvents:	no data available

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Solubility in organic solvents:	no data available
The n-octanol/water partition coefficient:	no data available
Auto-ignition temperature:	no data available
Decomposition temperature:	> 120°C
Viscosity:	0,1-0,5 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.

Section 10: Stability and reactivity

10.1 Reactivity

According to the section 10.3

10.2 Chemical stability

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

10.3 The possibility of dangerous reactions

No dangerous polymerization occurs.

10.4 Conditions to avoid

Heat, flash sources, direct sunlight.

10.5 Incompatible materials

Strong oxidizing agents.

10.6 Hazardous decomposition products:

The product does not decompose at ambient temperatures.

Section 11: Toxicological information

11.1 Information on toxicological effects

Mixture:

Skin damage 1

Eye damage 1

Acute toxicity 4 (harmful if swallowed)

Mutagenicity:

no genotoxic properties detected

Carcinogenicity:

no carcinogenic effects were detected

Reproductive toxicity:

2-butoxyethanol (CAS No. 111-76-2) expected to affect reproduction

Chronic toxicity:

not detected

Teratogenicity:

no teratogenic effects were detected

Cumulativity:

poor

Specific action on target organs:

not detected

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

Doses of minimal toxic effects:

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

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

Alkyd dimethyl benzyl ammonium chloride (CAS No. 68424-85-1):

Acute oral toxicity: LD_{50} (rats) = 240-400 mg/kg

Acute dermal toxicity: LD_{50} , (rats) = 800 -1420 mg/kg

Section 12: Information on environmental impact

12.1 Toxicity to the environment

Toxicity to aquatic organisms:

Very toxic to aquatic organisms in case of short-term exposure

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: $EC_{50} = 1054 \text{ mg/l}$ (Daphne Magna, 48 hours); $CL_{50} = 1720 \text{ mg/l}$ (Daphne Magna, 24 hours)

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

NOEC chronic > 100 mg/l (21 days, Brachydanio rerio (zebra fish))

Alkyd dimethyl benzyl ammonium chloride (CAS No. 68424-85-1):

Acute toxicity to fish: $CL_{50} = 0,85-1,2 \text{ mg/l}$ (96 hours)

Acute toxicity for daphnia: $EC_{50} = 0,02 \text{ mg/l}$ (48 hours)

Acute toxicity to algae: $EC_{50} = 0,06 \text{ mg/l}$ (96 hours)

$EC_{50} = 225 \text{ mg/l}$ (0,5 hours) activated sludge, respiratory depression

Toxicity to terrestrial organisms:

No product information is available.

12.2 Stability and ability to decompose

The product is biodegradable

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

Biochemical oxygen demand (BOD -5) $1.3 \text{ g O}_2/\text{g}$ substance

Chemical oxygen demand (COD) $2.18 \text{ g O}_2/\text{g}$ substance

Alkyd dimethyl benzyl ammonium chloride (CAS No. 68424-85-1):

Completely biodegradable.

12.3 Biocumulative potential

Not expected.

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

The n-octanol/water partition coefficient $\text{Log Pow} = 0.81$

12.4 Mobility in the soil

No negative impact is expected.

12.5 PBT and vPvB assessment results

The product does not meet PBT and vPvB criteria.

12.6 Other adverse effects

Not known

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Section 13: Waste disposal information

13.1 Waste management methods

Dispose of in accordance with local regulations. According to the European Catalogue of Industrial Waste, 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 user, preferably with the mutual consent of the industrial waste disposal authority.

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 absorbent material in a separate container. Do not discharge the product into the sewerage system or water sources. Small spills during use can be washed off with water and poured down the drain. State act of Ukraine - the Law of Ukraine «On Waste Management».

Contaminated packaging: Product-contaminated packaging is disposed of in accordance with the waste management regulations. Treat contaminated packaging in the same way as the product. Avoid release into the environment.

Waste disposal code: Detergents 7710.3.1.23 (Ukraine).

European waste code 20 01 29* - detergents containing dangerous substances

Observe the safety precautions in Section 8 during disposal work.

Section 14: Transportation information

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

14.1 UN number: 1760

14.2 Proper shipping name: corrosive liquid, n.o.s.

14.3 Transport hazard class: 8

14.4 Packaging group: III

14.5 Environmental hazards

The mixture is classified as hazardous to the aquatic environment under short-term exposure.
See Section 12 for further information.

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.

EC 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.

Regulations/laws on labor protection, safety, environmental protection, and industrial safety that apply 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

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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

H319: Causes severe eye irritation

H332: Harmful if inhaled

H400: Very toxic to aquatic organisms

Precautionary statements:

P260 Do not breathe vapours

P270: Do not eat, drink or smoke when using this product

P273: Avoid release to the environment

P280 Wear protective gloves

P310: Immediately seek first aid

P321: See label for special first aid measures

P363: Wash contaminated clothing before reuse

P391: Collect spillage

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.

P301 + P330 + P331: IF SWALLOWED: rinse mouth. Do NOT induce vomiting. Seek first aid from a doctor.

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

P405 Store locked up.

P501 Dispose of the content in accordance with 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.

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
EC	European Community

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CLP	Classification, Labelling and Packaging
REACH	Registration, Evaluation and Authorisation of Chemicals
CL ₅₀	The concentration that causes the death of 50% of the subjects
LD ₅₀	Average lethal dose
EC _{min}	Minimum effective concentration
EC ₅₀	Effective concentration occurring in 50% of experimental animals
CL ₅₀ ,	The concentration that causes the death of 50% of the subjects
DNEL	Minimum safe exposure level
MPC	Maximum permissible concentration
NOEC	A concentration that does not cause a visible adverse effect
COD	Chemical oxygen demand
BOD	Biochemical oxygen demand
Log Pow	The n-octanol-water partition coefficient

Training instructions:

During the production of the product, the staff is regularly instructed on the protection and handling of hazardous substances. When using the product at car washes, the personnel is regularly instructed on the rules of work.

Additional Information:

Packaging: 1 l; 5 l; 20 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 be invalid 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