## Section 1: Identification of the mixture and of the company

**1.1 Product identifier**

Name: **Matte plastic and vinyl polish with guava scent "POLYROLE MATTE"**

Trade name: **Polychrom 2020**

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

Professional matte polish for cleaning and protecting plastic in the car interior, ready-to-use.

**1.3 Details of the supplier of the safety data sheet**

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 telephone numbers**

101 (Ukraine); 112 (EC)
+380971445330 technologist Kravets Ihor Petrovych

## Section 2: Hazard identification

**2.1 Classification of the mixture**

Causes serious eye irritation 2, H319

**2.2 Label elements**

**Hazard pictograms:**

GHS07

**Signal word:** WARNING

**Hazard statements:**

H319 Causes serious eye irritation

**Precautionary statements:**

P264 Wash your hands thoroughly with soap and water after handling the product.
P280 Put on protective gloves.
P305 + P351 + P338 IN CASE OF EYE CONTACT: Rinse gently with water for several minutes. Remove contact lenses, if used and easily removable. Continue rinsing.
P337 + P313 If eye irritation persists: Get a medical examination.

**Additional non-GHS hazard statement**

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 ≥ 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 # |
|---|---|---|---|---|---|
| tridecanolethoxylate | 500-241-6 | 69011-36-5 | 1,5-2,0 | Acute toxicity 4, H302<br>Eye damage1, H318<br>Skin irritation 2, H315<br>Aquatic chronic toxicity 3, H412 | 01-2119976362-32-xxxx |

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 case of skin contact: rinse the 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, drink 200-300 ml of water with activated charcoal. Induce vomiting. 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 irritation of the respiratory tract, sore throat.

In case of skin contact: skin redness, irritation.

In case of contact with eyes: irritation, redness of the eyes, tearing.

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

**4.3 Indication of any immediate medical attention and special treatment needed**

There is no additional information about special first aid measures.

## Section 5: Firefighting measures

**5.1 Extinguishing media**

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

Appropriate fire extinguishing agents: Apply fire extinguishing measures according to environmental conditions. Sprayed water, $CO_2$ foam, dry chemical powder, sand.

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

**5.2 Special hazards arising from the substance or mixture**

Hazardous combustion products: carbon oxides.

Special protective equipment for fire-fighters: Use a complete set of protective clothing and breathing apparatus required for the specific fire area. Wear eye protection.

**5.3 Advice for firefighters**

Use standard firefighting equipment such as self-contained breathing apparatus and full protective equipment. Use filters for organic vapors. Spilled product creates a slippery surface. Do not allow fire extinguishing water to enter sewers or water sources. Dispose of contaminated fire extinguishing water in accordance with national regulations. Extinguish the fire from a sufficient distance, observing standard precautions.

## Section 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

**6.1.1 For non-emergency personnel**

Wear personal protective equipment for eyes and skin. Avoid contact with eyes and skin. Cover with non-combustible material - absorbent, collect, place in a container, hand over for disposal. Wash the spill site with plenty of water and detergent. Spilled product forms a slippery surface.

**6.1.2 For emergency responders**

Wear personal eye and skin protection. Stop or limit the leakage 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. Ensure that cleanup is carried out by qualified personnel only.

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

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

### 6.2 Environmental precautions

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

### 6.3 Methods and material for containment and cleaning up

Covering of sewage. Absorbent non-combustible material, water. Place in containers for disposal. Ventilate the affected area. Wash slippery surfaces remaining after cleaning the product with water and detergent.

**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. Do not allow aerosols to form. Wear rubber gloves when handling the product and avoid contact with eyes. Spilled product causes an increased risk of slipping.

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

### 7.2 Conditions for safe storage, including any incompatibilities

Store at a temperature of +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 manufacturer's container, separately from food and drinking water, animal feed. Keep the container tightly closed. Guaranteed shelf life is 24 months from the date of manufacture, subject to storage conditions.

Incompatibility with substances: none.

Hazardous decomposition products: carbon oxides during thermal decomposition.

### 7.3 Specific end uses

No data available

## Section 8: Exposure controls/personal protection

### 8.1 Control parameters

In the air of the working area:
DNEL tridecanolethoxylate (CAS 69011-36-5) = 294 mg/m$^3$ (systemic)

### 8.2 Exposure controls

#### 8.2.1 Appropriate engineering controls

Ventilation of working areas, local exhaust systems. Observe general hygiene measures when working with chemicals. Do not eat, drink or smoke while working. Do not allow to enter water bodies and soil.

#### 8.2.2 Individual protection measures, such as personal protective equipment

Protection of the respiratory tract: Does not require
Eye protection: avoid contact with eyes, wear safety glasses in accordance with European standard EN 166.
Skin protection: Protective gloves made of butyl rubber, nitrile rubber (according to European standard EN 420). The choice of suitable gloves is determined not only by the material, but also by other qualitative features, which differ significantly among different manufacturers. When choosing gloves, take into account the data of penetration and time of destruction specified by the manufacturer.

## Section 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

| | |
|---|---|
| State: | homogeneous liquid of white color or the color of the used dye |
| Smell: | of specific raw materials or flavoring used |
| Threshold of smell: | not defined |
| pH of 1.0% aqueous solution: | 6-7 |
| Melting/freezing point: | 0°C |
| Boiling point or temperature range: | 100°C |
| Flash point: | no data available |
| Intensity of evaporation: | depends on the 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: | 1.00-1.01 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 |
| Viscosity: | from 0,2 to 0,4 Pa·s |
| Explosive properties: | not explosive product |

**9.2 Other information**:
There are currently no additional data from available sources

## Section 10: Stability and reactivity

**10.1 Reactivity**

According to section 10.3

**10.2 Chemical stability**

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

**10.3 Possibility of hazardous reactions**

Does not polymerize. With proper use, dangerous reactions do not occur.

**10.4 Conditions to avoid**

Heating, direct sunlight, freezing.

**10.5 Incompatible materials:**

Not known.

**10.6 Hazardous decomposition products:**

With proper storage and use, it is not known. For the silicone component present in the product, measurements showed that at a temperature above approximately 150°C, a small amount of formaldehyde is split off due to oxidative decomposition.

## Section 11: Toxicological information

**11.1 Information on toxicological effects**

**Mixture:**

Eye irritation 2

The available data do not give grounds to assume the occurrence of an acute toxic effect as a result of a single oral exposure. The available data do not give reason to assume the occurrence of an acute toxic effect due to a single dermal exposure.

Acute oral toxicity: $LD_{50}$ (rats) > 2000 mg/kg

Acute dermal toxicity: $LD_{50}$ (rats) > 2000 mg/kg

Does not irritate the skin of rabbits.

| | |
|---|---|
| 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 |

**Tridecanolethoxylate (CAS 69011-36-5):**

Acute oral toxicity: ATE = 500 mg/kg (rats)

Acute inhalation toxicity: ATE = 11 mg/l (vapor inhalation 4 hours, human)

## Section 12: Ecological information

**12.1 Toxicity**

The mixture is not classified as hazardous to the aquatic environment. Based on current experience, no adverse effects should be expected in wastewater treatment plants.

**Toxicity to aquatic organisms:**
Acute toxicity to fish: $CL_{50}$>100 mg/l (Danio rerio, 96 hours, dynamic);
Acute toxicity for Daphnia: $EC_{50}$>100 mg/l (Daphnia magna, 48 hours)
Sediment (during wastewater treatment): $EC_{50}$ > 1000 mg/l
**Tridecanolethoxylate (CAS 69011-36-5):**
Acute toxicity to fish: $CL_{50}$ = 1-10 mg/l (96 hours, Leuciscus idus);
Acute toxicity to aquatic invertebrates: $EC_{50}$ = 1-10 mg/l (Aquatic invertebrates, 48 hours);
Acute toxicity to algae: $EC_{50}$ = 1- 10 mg/l (72 hours).
**Toxicity to terrestrial organisms:**
No information about the product.

### 12.2 Persistence and degradability
The product is biodegradable
**Tridecanolethoxylate (CAS 69011-36-5):** 82% decomposition - 28 days.
The n-octanol/water partition coefficient $K_{ow}$= 4,9
BCF = 232,5
BOD 5 value: 4.9 mg $O_2$/g of substance
COD value 481 mg $O_2$/ g of substance
Silicone content: elimination by adsorption on activated sludge; not biodegradable.

### 12.3 Bioaccumulative potential
No negative impact is expected.

### 12.4 Mobility in soil
No negative impact is expected.

### 12.5 PBT and vPvB assessment results
The product does not meet the PBT and vPvB criteria.

### 12.6 Endocrine disrupting properties
This product does not contain any known or suspected endocrine disruptors

### 12.7 Other adverse effects
Not known

## Section 13: Disposal considerations

### 13.1 Waste treatment methods
Dispose of in accordance with local regulations. According to the European Industrial Waste Catalogue, the rules and regulations for waste disposal are not defined for the product, but for the type of use.
The rules and regulations for waste disposal should be established by the consumer, preferably with mutual agreement with the industrial waste management company.
**Product**: Any residual product, which cannot be used as intended, are sent for disposal to a processing enterprise that has a license of the Ministry of Environmental Protection of Ukraine to carry out this type of work. The spilled product is collected using absorbent material in a separate container. Prevent the product from draining into drains and water sources. State Act of Ukraine - the Law of Ukraine "On Waste Management".
**Contaminated packaging:**
Containers with contaminated adsorbent are disposed of in accordance with waste management standards. Containers that are not contaminated with the substance can be recycled. For container cleaning: water, alkaline cleaning agents. Containers and product 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.

## Section 14: Transportation information

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

**14.1 UN number:** not classified

**14.2 Proper transport name:** not classified

**14.3 Transport hazard class:** not classified

**14.4 Packing group:** III

**14.5 Dangers to the environment**

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

For more information, see in 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.

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:**

H302 Harmful if swallowed

H315 Causes skin irritation

H318 Causes serious eye damage

H319 Causes serious eye irritation

H412 Harmful to aquatic life with long lasting effects

**Precautionary statements:**

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

P280 Wear protective gloves

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 non-GHS hazard statement**

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

**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 |
| $EC_{50}$ | Effective concentration occurring in 50% of experimental animals |
| $LC_{50}$ | Concentration causing death of 50% of experimental animals |
| $K_{ow}$ | The n-octanol/water partition coefficient |
| DNEL | The obtained level of effect absence |
| PNEC | The predicted non-effect concentration that does not cause impact in the ecosystem |
| NOEC | The No-Observed Effect Concentration |
| BOD | Biochemical Oxygen Demand |
| COD | Chemical Oxygen Demand |
| BCF | Bioconcentration Factor |
| ATE | Acute Toxicity Estimate |

**Training instructions:**

During the production and use of the product, it is necessary to regularly train personnel on protective measures and handling of hazardous substances.

**Additional Information:**

Packaging: plastic container, packaging from 0.5 l to 20.0 l; poured to order.

The data contained in the safety data sheet are 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)
Database of chemicals GESTIS
ECHA database of registered substances
TU U 20.4-44243293-001:2021 Car care products. Technical specifications