

Safety Data Sheet for not dangerous mixtures according to 878/2020 EU Regulation

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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier Pentart Airbrush flow improver

Type of substance: CLP Mixture

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

Hobby paint

1.3. Details of the supplier of the safety data sheet

Pentacolor Kft.

1103 Budapest, Gyömrői út 86.

tel.: +36-1-260-7477

fax: +36-1-262-1345

e-mail: info@pentacolor.hu

For product safety information please contact: info@pentacolor.hu

1.4. Emergency telephone number

https://echa.europa.eu/documents/10162/23019181/emergency_phone_numbers_en.pdf/d911af43-4bcf-9371-a59d-a20736d91e7d

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

This product is not classified to (EC) No 1272/2008.

2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008

Pentart Airbrush flow improver

Not required to sign up.

2.3. Other hazards

No PBT/vPvB assessment was made.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

The details below includes all impurities and by-products that contribute to the product classification or that have an occupational exposure limits.

Hazardous Substance(s): 2-butoxyethanol

concentration: 2,5-9,9 %

EC-No.: 203-905-0

CAS-No.: 111-76-2

Index-No. : 603-014-00-0

Classification according to Regulation (EC) No 1272/2008 : Acute Tox. oral 4 H302 (oral: ATE = 1200 mg/kg bw, Acute Tox. inhal. 3 H331 (inhalation: ATE = 3 mg/l (vapors), Skin Irrit. 2 H315, Eye Irrit. 2 H319

Registration number : 01-2119475108-36-xxxx

Refer to Section 16. for full details of hazard statements and Notas.

SECTION 4: First aid measures

4.1. Description of necessary first-aid measures

General:

Poisoning symptoms may appear after exposure, so if in doubt, consult a doctor due to direct contact with the product or persistent discomfort, presenting the product's safety data sheet.

Inhalation:

The product is not considered dangerous if inhaled, but it is recommended in case of symptoms of poisoning remove the affected person from the exposure area, provide clean air and rest. If symptoms persist, seek medical attention.

Eye contact:

Rinse the affected eye thoroughly with water for at least 15 minutes. If the injured wears contact lenses remove them unless they stick in your eyes, as this may cause further damage. In any case, consult a doctor as quickly as possible after cleaning with the safety data sheet of the product.

Skin contact:

The product is not considered dangerous if it comes into contact with the skin. In case of skin contact however, it is recommended to remove contaminated clothing and shoes, rinse the skin, or shower the affected person thoroughly, if necessary, with cold water and neutral soap. In case of a severe reaction, consult a doctor.

Ingestion:

Do not induce vomiting, but if it does happen, hold the victim's head down to avoid aspiration. Keep the affected person calm. Rinse the mouth and throat, as they may have been damaged by swallowing.

4.2. Most important symptoms and effects, both acute and delayed

See section 11.

4.3. Indication of immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

The product is not flammable under normal conditions of storage, handling and use. In case of ignition due to improper handling, storage or use, preferably use a multi-purpose powder extinguisher (ABC powder extinguisher) in accordance with the Fire Protection Systems Ordinance.

5.1. Extinguishing media

Suitable extinguishing media Multi-purpose dust extinguisher (ABC dust extinguisher).

Not to be used : It is not recommended to use tap water as an extinguishing media.

5.2. Special hazards arising from the substance or mixture

The product is not flammable. As a result of burning or thermal decomposition, reactive decomposition products are produced, which can become highly toxic and therefore pose a serious health risk

5.3. Advice for firefighters

Depending on the size of the fire, full protective clothing and individual breathing apparatus may be used need. In accordance with Directive 89/654/EC, minimum emergency tools and equipment must be available (fire blankets, portable first aid kit, etc.). Act according to the Internal Emergency Plan and information on measures after an accident or other emergency. Eliminate all sources of ignition. In case of fire, cool containers and containers of products sensitive to ignition, explosion or BLEVE due to high temperatures. Avoid getting the products used to extinguish the fire into water

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

Isolate the leak, provided it does not pose an additional risk to the personnel performing the task. Use personal protective equipment against possible contact with spilled product (see Section 8). Evacuate the area and keep those without protective equipment away.

6.2. Environmental precautions

The product is not classified as dangerous for the environment.

Do not allow to enter drains or watercourses.

6.3. Methods and materials for containment and cleaning up

Soak up the spilled material with sand or an inert absorbent material and take it to a safe place. Do not soak in sawdust or other flammable absorbents. See Section 13 for disposal.

6.4. Reference to other sections

Use personal protective equipment recommended in section 8.

For disposal see section 13.

SECTION 7: Handling and storage**7.1. Precautions for safe handling**

We must comply with the laws in force regarding the prevention of industrial risks. The containers are hermetically sealed and stored. Check for spills and residues and dispose of them using safe methods (see section 6). Avoid leaking from the tank. Maintain order and cleanliness where dangerous products are used.

Precautions against fire and explosion:

The product is not flammable under normal conditions of storage, handling and use. We recommend transferring it at a slow speed to avoid the build-up of electrostatic charges that can affect flammable products. See Section 10 for information on conditions and substances to avoid.

Technical recommendations to prevent ergonomic and toxicological risks:

Do not eat or drink during the treatment, and wash your hands afterwards with a suitable cleaning agent.

Technical recommendations to prevent environmental risks:

Keep absorbent material in the immediate vicinity of the product (see subsection 6.3).

7.2. Conditions for safe storage, including any incompatibilities

Technical measures for storage: Storage temperature: 5-30 °C.

General storage conditions: Avoid heat sources, radiation, static electricity and contact with food contact. More information can be found in subsection 10.5

7.3. Specific end uses

See section 1.2

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Components with workplace control parameters

Substances with occupational exposure limit values:

CAS 111-76-2 ethylene glycol monobutyl ether , 2-butoxyethanol

Directive 2000/39/EC

8 hours limit value: 98 mg/m³ (20 ppm)

Short term limit value: 246 mg/m³ (50 ppm)

DNEL

exposure - effect	value
worker: Short-term exposure - systemic effects, dermal	89 mg/kg
worker: Long-term exposure - systemic effects, dermal	75 mg/kg
worker: Short-term exposure - local effects, inhalation	246 mg/m ³
worker: Short-term exposure - systemic effects, inhalation	663 mg/m ³
worker: Long-term exposure - systemic effects, inhalation	98 mg/m ³
consumer: Short-term exposure, systemic effects, dermal	44,5 mg/kg
consumer: Long-term exposure - systemic effects, dermal	38 mg/kg
consumer: Short-term exposure - local effects, inhalation	123 mg/m ³
consumer: Short-term exposure, systemic effects, inhalation	426 mg/m ³
consumer: Long-term exposure - systemic effects, inhalation	49 mg/m ³
consumer: Short-term exposure - systemic effects, oral	13,4 mg/kg
consumer: Long-term exposure - systemic effects, oral	3,2 mg/kg

PNEC

environmental stage	Value
freshwater:	8,8 mg/l
marine water:	0,88 mg/l
intermittent release:	9,1 mg/l
Sewage treatment plant (STP):	463 mg/l
sediment (freshwater):	34,6 mg/kg
oral:	20 mg/kg
soil:	3,13 mg/kg

8.2. Exposure controls

Appropriate engineering controls

General safety and hygiene measures at the workplace:

As a preventive measure in accordance with Directive 89/686/EC with the appropriate "CE marking" the use of basic personal protective equipment is recommended. With personal protective equipment additional information (storage, use, cleaning, maintenance, protection class, etc.) see information provided by the manufacturer and subsection 7.1. All found here information recommendation for certain specifications of occupational risk prevention services is in need as it is not known if the company has further measures.

Personal protective equipment**Eyeface protection**

Face protection is mandatory. CE II category, EN 166:2001/MSZ EN 166:2003 and EN ISO 4007:2012 standard anti-splash/ejection panoramic glasses. Clean daily and regularly disinfect according to the manufacturer's instructions. Use when there is a risk of splashing.

Skin protection

Hand protection is mandatory. CE category I protective gloves against minor risks. Let's replace the gloves if there is any sign of injury. For professional users/industrial users, in case of prolonged exposure to the product, we recommend the use of CE III category gloves according to EN 420/MSZ EN 420:2003+A1:2010 and EN 374/MSZ EN 374-2:2015 standards. Since the product is a mixture of several materials, the resistance of the glove material cannot be calculated in advance with complete reliability, so it must be checked before use.

Body Protection

CE category I workwear. Replace before there are any signs of deterioration.

CE III is recommended for professional/industrial users in case of prolonged exposure to the product, in accordance with EN ISO 6529:2001, EN ISO 6530:2005, EN ISO 13688:2013/MSZ EN ISO 13688:2013, EN 464:1994.

CE II category non-slip work shoes, according to EN ISO 20347:2012/MSZ EN ISO 20347:2012 standards. Replace before there are any signs of deterioration. Professional/for industrial users in case of prolonged exposure to the product, CE III category is recommended according to the requirements of the EN ISO 20345/MSZ EN ISO 20345:2012 and EN 13832-1/MSZ EN 13832-2:2006 standards.

Respiratory protection

Mandatory use of a face mask. CE III category, according to EN 149:2001+A1:2009 / MSZ EN 149:2001+A1:2009 standard mask with filter insert for particles. Replace if resistance to breathing increases.

Additional emergency measures:

Emergency shower according to ANSI Z358-1 and ISO 3864-1:2002 standards and DIN 12 899 and Eye irrigation device according to ISO 3864-1:2002 standards.

Environmental exposure controls

In accordance with Community environmental protection legislation, it is recommended to avoid both the product, both the environmental release of the container. See subsection 7.1 for more information.

Volatile organic compounds (VOC):

In accordance with Directive 2010/75/EU, this product has the following characteristics:

VOC (Delivery): 2.5% by weight.

VOC density at 20 °C: 101.66 kg/m³ (101.66 g/l)

Average carbon number: 6

Average molecular weight: 118.19 g/mol.

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

(a) Physical state liquid

(b) Colour transparent, characteristic

(c) Odour characteristic

(d) Melting point/freezing point Due to the nature of the product, it is not relevant and does not provide information about the danger.

(e) Boiling point or initial boiling point and boiling range Due to the nature of the product, it is not relevant and does not provide information about the danger.

(f) Flammability non-flammable liquid (> 60 °C)

(g) Lower and upper explosion limit Due to the nature of the product, it is not relevant and does not provide information about the danger.

- (h) Flash point non-flammable liquid (> 60 C)
- (i) Auto-ignition temperature Due to the nature of the product, it is not relevant and does not provide information about the danger.
- (j) Decomposition temperature Due to the nature of the product, it is not relevant and does not provide information about the danger.
- (k) pH 6-8
- (l) Kinematic viscosity Due to the nature of the product, it is not relevant and does not provide information about the danger.
- (m) Solubility Due to the nature of the product, it is not relevant and does not provide information about the danger.
- (n) Partition coefficient n-octanol/water (log value) not applicable (mixture)
- (o) Vapour pressure Due to the nature of the product, it is not relevant and does not provide information about the danger.
- (p) Density and/or relative density 0,95-1,05 g/cm³
- (q) Relative vapour density Due to the nature of the product, it is not relevant and does not provide information about the danger.
- (r) Particle characteristics Not applicable for fluid. It does not contain nanoparticles.

9.2. Other information

There are none.

SECTION 10: Stability and reactivity**10.1. Reactivity**

No hazardous reactions can be expected under normal handling and storage

10.2. Chemical stability

Stable under recommended storage and handling conditions.

10.3. Possibility of hazardous reactions

No dangerous reaction in normal use.

10.4. Conditions to avoid

Can be used for handling and storage at room temperature.

10.5. Incompatible materials

Strong acids, alkalis, strong bases.

10.6. Hazardous decomposition products

See subsections 10.3, 10.4, and 10.5 for specific decomposition products. The decomposition depending on the conditions, complex mixtures of chemical substances may be released: carbon dioxide (CO₂), carbon monoxide and other organic compounds.

SECTION 11: Toxicological information**11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008**

There are no data available on the preparation itself.

(a) acute toxicity: Based on available data, the classification criteria are not met

Ingestion: Based on the available data, the classification criteria are not met, however contains substances classified as dangerous for consumption. See Section 3 for more information.

ATE (oral): 17142,857 mg/kg (calculated).

Corrosion/irritation: Based on the available data, the classification criteria are not met, however contains substances classified as dangerous in terms of this effect. See Section 3 for more information.

Inhalation: Based on the available data, the classification criteria are not met, however contains substances classified as dangerous if inhaled. See Section 3 for more information.

ATE (inhalation, vapor): 42,857 mg/l (calculated).

Skin contact: Based on the available data, the classification criteria are not met, however contains substances classified as dangerous in contact with the skin. See Section 3 for more information.

Eye contact: Based on the available data, the classification criteria are not met, but it contains substances classified as dangerous in terms of such an effect. See Section 3 for more information.

(b) skin corrosion/irritation: Based on the available data, the classification criteria are not met, however contains substances classified as dangerous in terms of this effect. See Section 3 for more information.

(c) serious eye damage/irritation: Based on the available data, the classification criteria are not met, however contains substances classified as dangerous in terms of this effect. See Section 3 for more information.

(d) respiratory or skin sensitisation Based on the available data, the classification criteria are not met because no contains substances classified as dangerous due to the said effect. See Section 3 for more information.

(e) germ cell mutagenicity: Based on the available data, the classification criteria are not met because no contains substances classified as dangerous due to the said effect. See Section 3 for more information.

(f) carcinogenicity: Based on the available data, the classification criteria are not met because no contains substances classified as dangerous due to the said effect. See Section 3 for more information.

(g) reproductive toxicity: Based on the available data, the classification criteria are not met because no contains substances classified as dangerous due to the said effect. See Section 3 for more information.

(h) STOT-single exposure: Based on the available data, the classification criteria are not met because no contains substances classified as dangerous due to the said effect. See Section 3 for more information.

(i) STOT-repeated exposure: Based on the available data, the classification criteria are not met because no contains substances classified as dangerous due to the said effect. See Section 3 for more information.

(j) aspiration hazard: Based on the available data, the classification criteria are not met because no contains substances classified as dangerous due to the said effect. See Section 3 for more information.

11.2. Information on other hazards

Experimental information on the toxicological properties of the product itself is not available. Contains glycols. Due to the possibility of harmful effects on health, the vapors should not be inhaled for a long time. Repeated, long-term exposure or exposure to concentrations exceeding the occupational exposure limit may cause health-damaging effects depending on the mode of exposure: No information on endocrine-damaging effects.

SECTION 12: Ecological information

12.1. Toxicity

Based on available data, the classification criteria are not met (not classified as dangerous for the environment.)

Information on the components:

2-Butoxyethanol:

LC50 (Lepomis macrochirus, 96 h): 1490 mg/l.

EC50 (Daphnia magna, 48 h): 1815 mg/l.

EC50 (Pseudokirchneriella subcapitata, 72 h): 911 mg/l.

12.2. Persistence and degradability

Information on the components:

2-Butoxyethanol:

BOD5: 0.71 g O2/g.

COD: 2.2 g O2/g.

BOD5/COD: 0.32.

Biodegradation: 96 % (100 mg/l, 14 days).

12.3. Bioaccumulative potential

Information on the components:

2-butoxyethanol: Low bioaccumulation potential.

log PO/V: 0.83.

BKF: 3.

12.4. Mobility in soil

The product is water-soluble

Information on the components:

2-Butoxyethanol:

KOC: 8.

Surface tension (25 °C): 2,729x10⁻² N/m.

Rating: Absorption/desorption very high.

Henry's constant: $1,621 \times 10^{-1} \text{ Pa} \cdot \text{m}^3/\text{m}^3$.

Dry soil: No.

Wet ground: Yes.

12.5. Results of PBT and vPvB assessment

No PBT/vPvB assessment was made.

12.6. Endocrine disrupting properties

No information is available on endocrine disruptors.

12.7. Other adverse effects

The product has not been tested for ecotoxicity.

SECTION 13: Disposal considerations**13.1. Waste treatment methods**

In accordance with local and national regulations.

Non-hazardous waste, but the generation of waste should be avoided or minimized wherever possible. Do not allow into drains or water courses. Recommended waste identification code: 08 01 12. Please consult with the authorized waste manager about assessment and disposal operations according to Annexes 1 and 2 of Directive 2008/98/EC. We do not recommend throwing it down the drain. See 6.2. subsection.

Pursuant to Commission Decision 2014/955/EC, on the basis of code 15 01 and in the event that the container was in direct contact with the product, the processing should take place together with the product. Otherwise, it is treated as non-hazardous waste.

SECTION 14: Transport information**Transportation for non-hazardous goods.**

14.1. UN number or ID number Not applicable.

14.2. UN proper shipping name Not applicable.

14.3. Transport hazard class(es) Not applicable.

14.4. Packing group Not applicable.

14.5. Environmental hazards No

14.6. Special precautions for user Observe the applicable safety data sheet.

14.7. Maritime transport in bulk according to IMO instruments Not applicable. Bulk delivery is not permitted.

SECTION 15: Regulatory information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

According to the local regulation. There are no special requirements.

15.2. Chemical safety assessment

Chemical safety assessment has not been carried out.

SECTION 16: Other information**LIST OF RELEVANT H-PHRASES IN SECTION 3****H-Phrases**

H302 Harmful if swallowed

H315 Causes skin irritation

H319 Causes serious eye irritation

H331 Toxic if inhaled.

This product is not classified according to (EC) Regulation No 1272/2008.- based on calculation method

Data Sources:

The previously-classified hazardous materials list
Internet database of chemical substances

Safety data sheets of components

Abbreviations:

Acute Tox. oral Acute Toxicity oral

Acute Tox. inhal Acute Toxicity inhalation

Skin Irrit. Skin Irritation

Eye Irrit. Eye Irritation

EK / EU European community/European union

EGK European Economic Community

DNEL Derived No Effect Level

PNEC Predicted No Effect Concentration

CLP Regulation on Classification, Labelling and Packaging of Substances and Mixtures /

CAS Chemical Abstracts Service

UN / ENSZ United Nations

ADN Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure

ADR Accord européen relatif au transport international des marchandises Dangereuses par Route

RID Règlement international concernant le transport des marchandises dangereuses par chemin de fer

IMDG International Maritime Code for Dangerous Goods

IMO International Maritime Organization

IBC Intermediate Bulk Container

IATA International Air Transport Association

ICAO International Civil Aviation Organization

PBT Persistent, Bioaccumulative, Toxic

vPvB very Persistent, very Bioaccumulative

ATE Acute Toxicity Estimate / body weight in kilograms

EC₅₀ Effective concentration 50 %

LC₅₀ Lethal Concentration 50 %

NOEC No Observed-effect concentration

LLNA Local Lymph Node Assay

BCF / BKF Bioconcentration factor

DOC Dissolved Organic Carbon

This product Safety Data Sheet provides health, safety, and regulatory information. The information contained in this Safety Data Sheet is based on data available to us at the date of issue, and is provided in good faith, and believed to be accurate and reliable at the date of issue, however, no warranty, express or implied is provided. The product is to be used in applications consistent. For any other uses, exposures should be evaluated so that the appropriate handling practices and training programs can be established to ensure safe working conditions and operations. It is the buyer's/user's responsibility to satisfy itself that the product is suitable for the intended use, and to ensure that its activities comply with all federal, state, provincial, or local laws and regulations. Regulatory requirements are subject to change and may differ between European Member States and Nations. Individuals handling this product should be informed of the recommended safety precautions and should have access to this information.