Safety Data Sheet according to Regulation (EC) No1907/2006

Date of Compilation/Revision: 28.12.2020.

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifiers UV glass glue, UV adhesive
Type of substance: CLP Mixture
1.2. Relevant identified uses of the substance or mixture and uses advised against
Resin system used to make coatings.
1.3. Details of the supplier of the safety data sheet
Pentacolor Kft.
1103 Budapest, Gyömrõi 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

Skin Irrit. 2	H315 Causes skin irritation.
Skin Sens. 1	H317 May cause an allergic skin
Eye Dam. 1	H318 Causes serious eye damage.
STOT SE 3	H335 May cause respiratory irritation.
Aquatic Chronic 2	H411 Toxic to aquatic life with long lasting effects

2.2. Label elements
Labelling according to Regulation (EC) No 1272/2008

Hazard pictograms

Signal Word: Danger

Hazard Statements:

H315 Causes skin irritation.
H317 May cause an allergic skin
H318 Causes serious eye damage.
H335 May cause respiratory irritation
H411 Toxic to aquatic life with long lasting effects

Precautionary Statements

P273 Avoid release to the environment

P302+P352 IF ON SKIN: Wash with plenty of water.
P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minuts. Remove contact lenses, if present and easy to do. Continue rinsing.
P312 Call a POISON CENTER/doctor/if you feel unwell.
P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.

Hazardous components which must be listed on the label:
2-Acrylic acid, dodecyl ester, oxybis (methyl-2,1-ethanediyl) diacrylate, Glycerol, propoxylated, esters with acrylic acid

2.3. Other hazards
Not known
The ingredients are not PBT or vPvB substances.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixture
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-acrylic acid, dodecyl ester
concentration: >=25 - <=50 %
EC-No.: 218-463-4
CAS-No.: 2156-97-0
Index no.: 607-133-00-9
Classification according to Regulation (EC) No 1272/2008 : Skin Irrit. 2 H315, Eye Irrit. 2 H319, Skin Sens. 1 H317, STOT SE 3 H335, Aquatic Chronic 2 H411
Registration number: 01-2119976296-23

Hazardous Substance(s): oxybis (methyl-2,1-ethanediyl) diacrylate
concentration: >=10 - <=25%
EC-No.: 260-754-3
CAS-No.: 57472-68-1
Classification according to Regulation (EC) No 1272/2008 : Skin Irrit. 2 H315, Eye Dam. 1 H318, Skin Sens. 1 H317
Registration number: 01-2119484629-21

Hazardous Substance(s): glycerol, propoxylated, esters with acrylic acid
concentration: < 1%
EC-No.: 500-114-5
CAS-No.: 52408-84-1
Index No. 601-053-00-8
Classification according to Regulation (EC) No 1272/2008 : Eye Irrit. 2 H319, Skin Sens. 1 H317
Registration number: 01-2119487948-12

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

SECTION 4: FIRST AID MEASURES

4.1. Description of necessary first-aid measures
General:
Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.
Inhalation:
If inhaled, remove to fresh air. For breathing difficulties, oxygen may be necessary. Get medical attention immediately.
Eye contact:

Immediately flush eyes with plenty of water for at least 15 minutes, lifting upper and lower eyelids occasionally. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician or poison control centre immediately.

Skin contact:

Wash contaminated clothing before reuse. Rinse skin thoroughly with lukewarm water for at least 10 minutes. Call a physician or poison control centre immediately.

Ingestion:

Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Call a physician or Poison Control Centre immediately.

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

Causes skin irritation.
Causes serious eye damage.
May cause an allergic skin reaction.
May cause respiratory irritation.

4.3. Indication of immediate medical attention and special treatment needed

Treat symptomatically. Keep victim under observation. Symptoms may be delayed.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media

Use extinguishing media that is suitable for the extinguishing of burning agents in the environment.
Not to be used : Not known.

5.2. Special hazards arising from the substance or mixture

Increase in pressure due to fire or heating occurs and the container may rupture.
Decomposition products may include the following materials:
carbon dioxide, carbon monoxide, (dense) black smoke, aldehydes, organic acids

5.3. Advice for firefighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Move containers from fire area if you can do so without risk.
Use standard firefighting procedures and consider the hazards of other involved materials.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Ensure adequate ventilation. Do not breathe mist or vapour. Avoid contact with skin and eyes. Keep unnecessary personnel away. Keep out of low areas. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

For emergency responders

Keep unnecessary personnel away. Use personal protection recommended in Section 8 of the SDS.

6.2. Environmental precautions

Do not flush into surface water or sanitary sewer system. Contact local authorities in case of spillage to drain/aquatic environment.

6.3. Methods and materials for containment and cleaning up

Keep unnecessary personnel away. This product is miscible in water. Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Collect and dispose of spillage as indicated in section 13 of the SDS. Prevent entry into waterways, sewer, basements or confined areas.
Never return spills to original containers for re-use.

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

Do not breathe mist or vapour. Do not get this material in your eyes, on your skin, or on your clothing. Provide adequate ventilation. Use personal protective equipment as required. Wash contaminated clothing before reuse. When using, do not eat, drink or smoke. Wash hands thoroughly after handling. Avoid release to the environment. Keep out of reach of children.
Precautions against fire and explosion:
The product is not flammable. Normal measures for preventive fire protection.

7.2. Conditions for safe storage, including any incompatibilities

Keep out of the reach of children. Store locked up. Store in tightly closed original container in a dry, cool and well-ventilated place. Store at 5-40 ° C, protected from direct sunlight. Store away from incompatible materials, see Section 10 of the SDS.

7.3. Specific end uses

See section 1.2

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

No exposure limits noted for ingredient(s).

DNEL

oxybis (methyl-2,1-ethanediyl) diacrylate

worker: Long-term exposure - systemic effects, dermal: 2,77 mg/kg
worker: Long-term exposure - systemic effects, Inhalation: 24,48 mg/m3
consumer: Long-term exposure- systemic effects, dermal: 1,66 mg/kg
consumer: Long-term exposure- systemic effects, oral:2,08 mg/kg
consumer: Long-term exposure - systemic effects, Inhalation: 7,24 mg/m3

glycerol, propoxylated, esters with acrylic acid

worker: Long-term exposure - systemic effects, dermal: 1,04 mg/kg
worker: Long-term exposure - systemic effects, Inhalation: 3,7 mg/m3
consumer: Long-term exposure- systemic effects, dermal: 0,52 mg/kg
consumer: Long-term exposure - systemic effects, Inhalation: 0,9 mg/m3
consumer: Long-term exposure- systemic effects, oral: 0,52 mg/kg

PNEC

glycerol, propoxylated, esters with acrylic acid

freshwater: 0.0057 mg/l
marine water: 0.000574 mg/l
sediment (freshwater): 0.01697 mg/ kg dwt
sediment (marine water): 0.001697 mg/kg dwt
soil: 0.00111 mg/ kg dwt

8.2. Exposure controls

Appropriate engineering controls
Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.

Personal protective equipment

Eye/face protection

Wear safety glasses with side shields (or goggles) and a face shield.

Skin protection

Chemical resistant gloves. The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material.
4-8 hours (breakthrough time): nitrile rubber (0.4 mm).
Do not use gloves made of real rubber. Not use PVC gloves. PVC absorbs acrylic compounds.
Replace damaged gloves.

Body Protection

Wear appropriate chemical resistant clothing. Wear appropriate chemical resistant clothing to prevent any possibility of skin contact.

Respiratory protection

Wear a type A filter mask.

Hygiene measures

When using, do not eat, drink or smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Contaminated work clothing should not be allowed out of the workplace. Wash at the end of each work shift and before eating, smoking or using the toilet.

Environmental exposure controls

Do not flush into surface water or sanitary sewer system. Check emissions of the local exhaust system during the production in order to comply with environmental protection requirements.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

(a) Appearance: yellowis liquid
(b) Odour: mild
(c) Odour threshold: no data available
(d) pH: no data available
(e) Melting point/freezing point: no data available
(f) Initial boiling point and boiling range: no data available
(g) Flash point: > 110.0 °C (estimation)
(h) Evaporation rate: no data available
(i) Flammability (solid, gas): not applicable. (liquid)
(j) Upper/lower flammability or explosive limits: no data available
(k) Vapour pressure: no data available
(l) Vapour density: no data available
(m) Relative density: 0,95 g/cm3
(n) Solubility(ies): insoluble in water. Soluble in organic solvents.
(o) Partition coefficient: n-octanol/water: no data available
(p) Auto-ignition temperature: no data available
(q) Decomposition temperature: no data available
(r) Viscosity: Dynamic (room temperature): 250 – 350mPas, Kinematics (40 ° C):> 0.205 cm2/s
(s) Explosive properties: no data available
(t) Oxidising properties. no data available

9.2. Other information

No relevant additional information available.

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

Not available special test data.

10.2. Chemical stability

Stable under normal temperature conditions and recommended use.

10.3. Possibility of hazardous reactions

No dangerous reaction in normal use..

10.4. Conditions to avoid

Keep away from heat, sparks and open flame. When exposed to light may polymerize. Heating can cause spontaneous polymerization.

10.5. Incompatible materials

Free radical initiators, peroxides, strongly alkaline and strongly acidic substances or reactive metals. The contact with these, can result in uncontrolled exothermic polymerization.

10.6. Hazardous decomposition products

None expected under normal conditions of use. Decomposition products may include the following materials: carbon dioxide, carbon monoxide, (dense) black smoke, aldehydes, organic acids

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute toxicity:
Based on available data, the classification criteria are not met.

Components:

2-acrylic acid, dodecyl ester:
LD50/oral/rat >5570 mg/kg

LD50/dermal/rat: >5000 mg/kg
oxybis (methyl-2,1-ethanediyl) diacrylate
LD50/oral 2810 mg/kg (rat, female), 3530 mg/kg (rat), 4270 mg/kg (rat, male)
LD50/dermal/rabbit: >2 g/kg
glycerol, propoxylated, esters with acrylic acid
LD50/oral: >2000 mg/kg (rat male, female)
LD50/dermal: >2000 mg/kg (rat male, female)
(b) skin corrosion/irritation: Causes skin irritation..
(c) serious eye damage/irritation: Causes severe eye damage.
(d) respiratory or skin sensitisation: May cause an allergic skin reaction.
(e) germ cell mutagenicity: Based on available data, the classification criteria are not met.
(f) carcinogenicity: Based on available data, the classification criteria are not met.
(g) reproductive toxicity: Based on available data, the classification criteria are not met.
(h) STOT-single exposure: May cause respiratory irritation
(i) STOT-repeated exposure: Based on available data, the classification criteria are not met.
(j) aspiration hazard: Based on available data, the classification criteria are not met.
Information on likely routes of exposure
With physical, chemical and toxicological characteristics related symptoms:
Eye contact: pain, tearing, redness
Inhalation: respiratory tract irritation, cough
Skin contact: pain or irritation, redness, blistering may occur
Ingestion: stomach pains

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity
According to Regulation (EC) No1907/2006: Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.
Components:
2-acrylic acid, dodecyl ester:
LC50 >4.34 mg/l (fish, 96 h)
Chronic NOEC >100 mg/l (Daphnia, 21 d)
oxybis (methyl-2,1-ethanediyl) diacrylate:
EC50 16.7 mg/l Fresh water (algae, 72 h)
EC50 >1000 mg/l Fresh water (micro-organism, 30 min.)
Acute EC50 22.3 mg/l Fresh water (Daphnia, 48 h)
Acute LC50 2.2 - 4.64 mg/l Fresh water (fish, 96 h)
glycerol, propoxylated, esters with acrylic acid:
Acute EC50 12.2 mg/l (alga, 72 óra)
Acute EC50 91.4 mg/l (Daphnia, 48 h)
Acute LC50 5.74 mg/l (fish, 96 h)
12.2. Persistence and degradability
No data is available on the degradability of this product.
Components:
2-acrylic acid, dodecyl ester:
80 - 90 % - 28 d easily degradable
oxybis (methyl-2,1-ethanediyl) diacrylate:
90 - 100 % - 28 d. (activated sludge) easily degradable
glycerol, propoxylated, esters with acrylic acid:
72.85 % - 28 d easily degradable
12.3. Bioaccumulative potential
Components
2-acrylic acid, dodecyl ester: log Pow: 6,5; potentioal: high
oxybis (methyl-2,1-ethanediyl) diacrylate: log Pow: 0.01 - 0.39, BKF: 1,68, potential: small/low
glycerol, propoxylated, esters with acrylic acid:: log Pow: 2,52, potential: small/low
12.4. Mobility in soil
no data available
12.5. Results of PBT and vPvB assessment
Not a PBT or vPvB substance or mixture

12.6. Other adverse effects
No known significant effects or critical hazards.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods
Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
Contaminated packaging : In accordance with local and national regulations. Dispose of as unused product.

SECTION 14: TRANSPORT INFORMATION

14.1. UN number 3082
14.2. UN proper shipping name ENVIRONMENTALLY HAZARDOUS LIQUID, M. N.N. (2-acrylic acid, dodecyl ester)
14.3. Transport hazard class(es) 9
14.4. Packing group III
14.5. Environmental hazards Yes
14.6. Special precautions for user Transport within the user's premises: always closed in a container which is stationary and safe. Transport personnel should be available be aware of what to do in the event of an accident or spill.
14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code No data.
Other information:
ADR / RID: The product is not considered dangerous if it is less than 5 liters or less than 5 kg is supplied in a package and its packaging complies with 4.1.1.1, 4.1.1.2. or 4.1.1.4. - 4.1.1.8. the general requirements of points.
Hazard identification number 90
Limited quantity 5 L
Special precautions 274, 335, 601, 375
ADN: The product is not considered dangerous if it is less than 5 liters or less than 5 kg is supplied in a package and its packaging complies with 4.1.1.1, 4.1.1.2. or 4.1.1.4. - 4.1.1.8. the general requirements of points.
Special precautions 274, 335, 375, 601
IMDG: The product is not considered dangerous if it is less than 5 liters or less than 5 kg is supplied in a package and its packaging complies with 4.1.1.1, 4.1.1.2. or 4.1.1.4. - 4.1.1.8. the general requirements of points.
Emergency schedules F-A, S-F
Special precautions 274, 335, 969
IATA: The product is not considered dangerous if it is less than 5 liters or less than 5 kg is supplied in a package and its packaging complies with the requirements of 5.0.2.4.1, 5.0.2.6.1.1. or 5.0.2.8. the general requirements of points.
Quantitative restrictions Passenger and cargo aircraft: 450 L. Packing instructions: 964.
Cargo aircraft only: 450 L. Packing instructions: 964. Limited quantities - passenger aircraft: 30 kg. Packing instructions: Y964.
Special precautions A97, A158, A197

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.
XIV. Annex: None of the components are listed.
Substances of very high concern: None of the components are listed.
XVII. Annex - Manufacture of certain dangerous substances, preparations and articles
XVII. Annex - Manufacture of certain dangerous substances, preparations and articles Restrictions on the placing on the market and use.
Ozone depleting substances (1005/2009 / EU) Not classified.arket and use: Not applicable

Prior Informed Consent (PIC) (649/2012 / EU): Not classified.
The components of this product are included in the following notification lists; are exempted, or otherwise meet requirements: EINECS/ELINCS/NLP (EU), DSL/NDSL (Kanada), KECI (Dél-Korea), TSCA (USA).
The ingredients of this product are not included on California's 65 list

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

H315 Causes skin irritation.
H317 Causes skin irritation
H318 Causes serious eye damage
H319 Causes serious eye irritation
H335 May cause respiratory irritation.
H411 Toxic to aquatic life with long lasting effects

Information on evaluation method leading to the classification of mixture

The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available.

Data Sources:

Manufacturer's Safety Data Sheet

Abbreviations:

Eye Dam. Eye Damage
Eye Irrit. Eye Irritation
Skin Irrit. Skin Irritation
Skin Sens. Skin sensitization
STOT SE 3
Aquatic Chronic

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 Réglement international concernant le transport des marchandises dangereuses par chemin de fer
IMDG International Maritime Code for Gangerous Goods
MARPOL International Convention for the Prevention of Pollution From Ships
IBC Intermediate Bulk Container
IATA International Air Transport Association
ICAO International Civil Aviation Organization
PBT Persistent, Bioaccumulative, Toxic
vPvB very Persistent, very Bioaccumulative

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.