



Safety Data Sheet (SDS)

Prepared in accordance with Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by
Commission Regulation (EU) 2020/878.

1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name: Headlight Restoration Kit (Step2)

Relevant identified uses of the substance or mixture and uses advised against: Used to repair and eliminate the degradation, yellowing, oxidation and scratch of plastic lenses such as headlamp, rear tail lamp, ship window, helmet mask, etc

1.2. Details of the supplier of the safety data sheet

Company: Zhejiang Guoneng Technology Co., Ltd.

Address: NO.1518 MENGXI ROAD, HUZHOU, ZHEJIANG, CHINA

TEL: 0086-572-2109399

FAX: 0086-572-2352225

Email: Sales@visbella.com

1.3. Emergency telephone number

Emergency telephone number: 0086-572-2109399

Intended use: It is used for sealing and bonding.

Further information: Zhejiang Guoneng Technology Co., Ltd.

2. Hazards identification

2.1. Classification of the substance or mixture:

2.1.1. Classification according to Regulation (EC) No 1272/2008 (CLP): not classified

2.1.2. Additional information: For full text of Hazard- and EU Hazard-statements: see SECTION 16.

2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008 [CLP]: STOT Single Exp. 3 -(H335)

Hazard Pictograms:



Signal Word: Warning

Hazard Statements: H335 - May Causes respiratory irritation.

Precautionary Statements: P262 - DO not get in eyes, on skin, or on clothing.

P305+P351+P338 -IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

P302 + P352 -IF ON SKIN: Wash with plenty of soap and water.

P332 + P313 - If skin irritation occurs: Get medical advice/attention.

Response Precautionary Statements:No special requirements.

Storage precautionary statements:No special requirements.

Disposal precautionary statements:No special requirements.

2.3. Other hazards:

This product does not contain any PBT or vPvB substances.

Spills can represent a risk of slipping due to the grain shape.

Information of endocrine disrupting substances:No endocrine disruptors.



3. Composition/information on ingredients

Product description: substance (); preparation/mixture (√)

Ingredients/Components	CAS No.	EC No.	Index No.	% by weight	Classification according to Regulation (EC) No 1278/2008 (CLP).
Water	7732-18-5	231-791-2	Not available	10-20%	Not available
Ethylene glycol	107-21-1	203-473-3	Not available	35-45%	Not available
Silicon dioxide	14808-60-7	238-878-4	Not available	10-20%	Not available
Calcium carbonate	471-34-1	207-439-9	Not available	20-30%	Not available

Note: The mixture does not contain endocrine disruptors.

4. First aid measures

4.1. Description of first aid measures:

General notes: No information available.

Following inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

Following skin contact: Rinse skin with water [or shower]. If skin irritation occurs: Get medical advice/attention.

Following eye contact: Remove contact lenses if present and easy to do, continue rinsing. If eye irritation persists: Get medical advice/attention.

Following ingestion: Rinse mouth. Do not induce vomiting without professional instruction. Call a POISON CENTER or doctor/physician if you feel unwell.

Self-protection of the first aider: No special requirement.

4.2. Most important symptoms/effects, acute and delayed: Acute effect: Not found. Delayed effect: Not found.

4.3. Indication of any immediate medical attention and special treatment needed: Treat according to symptoms.

5. Fire-fighting measures

5.1. Extinguishing Media

Suitable extinguishing media: Use water spray, dry chemicals, carbon dioxide, foam, dry sand for extinction.

Unsuitable Extinguishing Media: High volume water jet. Discharging cylinder shape water from fire hose may lead to spread fire to the surroundings.

5.2. Special hazards arising from the substance or mixture: The product is not flammable, and has no special danger.

Hazardous combustion products: It may release smoke, carbon monoxide, carbon dioxide and other hazardous gas from thermal decomposition.



5.3. Advice for fire-fighters:

For initial fire, use dry powder, carbon dioxide, etc.

For large fire, it is effective to use fire foam, etc. to shut off air supply.

Fire-fighters must wear self-contained breathing apparatus and full protective equipment (e.g. fire-retardant clothing).

Deny unnecessary entry to the place around the fire.

Remove containers from fire area if it can be done without risk.

Cool surrounding facilities, etc. with water spray.

Extinguish fire from upwind, and the fire extinguishing method should be appropriate to the situation in the surroundings.

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures: Use proper personal protective equipment as indicated in Section 8.

6.2. Environmental Precautions: Keep cleaning run-offs out of municipal sewers and open bodies of water. Comply with local and national laws and regulations.

6.3. Methods and materials for containment and cleaning up:

Small Spill:

Mop up or absorb with an inert dry material (e.g. sand, dry lime) and place in an appropriately labeled waste disposal container.

Large Spill:

Isolate contaminated area and set up a warning board. The persons handling emergency are recommended wearing protective clothing. Do NOT touch spilled material. Keep away from heat and sources of ignition.

Build up dike or dig pit for collection. Spray fog water to cool down and dilute vapor. Dilute the spilled liquid till it is not combustible. Protect the working staff. Collect the spilled material with explosion-proof pump into an appropriate container and transport the waste to the disposal place.

6.4. Reference to other sections:

For more information, please refer to Section 8 and Section 13.

7. Handling and storage

7.1. Precautions for safe handling:

Wash hands thoroughly after handling.

7.2. Conditions for safe storage, including any in compatibilities

Technical measures and storage conditions: Store it in a well-ventilated, cool and dry store room. Long-time direct sunlight and high temperature. Keep out of the reach of children.

Incompatible materials: No information available.

Packaging materials: Aluminum plastic pipe or plastic bag or plastic pipe.

Requirements for storage rooms and vessels: Well-ventilated and dry.

Storage class

Further information on storage conditions: The storeroom should be equipped with proper facilities for accidental fire.

7.3. Specific end use(s): It is used for sealing and bonding.



Exposure controls/personal protection

8.1. Control parameters:

Chemical Name	Korea	New Zealand	Ireland	Germany (AGS)	Denmark	Australia
Ethylene glycol (CAS #: 107-21-1)	STEL: 40 ppm STEL: 100mg/m ³	STEL: 50 ppm STEL: 127mg/m ³	TWA: 20 ppm TWA: 52 mg/m ³ STEL: 40 ppm STEL: 104 mg/m ³	TWA: 10 ppm TWA: 26 mg/m ³ STEL: 20 ppm STEL: 52mg/m ³	TWA: 10 ppm TWA: 26 mg/m ³ STEL: 20 ppm STEL: 52mg/m ³	TWA: 20 ppm TWA: 52 mg/m ³ STEL: 40ppm STEL: 104mg/m ³
Chemical Name	Korea	New Zealand	Ireland	Denmark	Australia	
Silicon dioxide (CAS #: 14808-60-7)	TWA: 0.05 mg/m ³	TWA: 0.2mg/m ³	TWA: 0.1 mg/m ³	TWA: 0.3 mg/m ³ STEL: 0.6mg/m ³	TWA: 0.1 mg/m ³	
Chemical Name	U.S.A - OSHA	Latvian	Ireland	France	Canada -Quebec	Australia
Calcium carbonate (CAS #: 471-34-1)	TWA: 15 mg/m ³	TWA: 6mg/m ³	TWA: 10mg/m ³	TWA: 10mg/m ³	TWA: 10mg/m ³	TWA: 10 mg/m ³

8.2. Exposure controls:

8.2.1. Appropriate engineering controls

Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. Install washer eyes and safety showers near to the handling and storage area.

8.2.2. Personal protection equipment:

Hand protection:

Recommend wearing protective gloves (e.g. rubber gloves).



Eye protection:

Wear safety glasses when liquid may splash.



Respiratory Protection:

Use an approved respirator if exposure limits are exceeded or if irritation or other symptoms occur.



Body Protection:

Recommend wearing general working clothing.





General protective and hygienic measures:
 Keep away from foodstuffs, beverages and feed.
 Wash hands before breaks and at the end of work.
 Avoid contact with eyes and broken skin.

8.2.3 Environmental exposure controls:
 Maintain levels below Community environmental protection thresholds.

Physical and chemical properties

9.1. Information on basic physical and chemical properties

General Information

Physical state	Even and fine paste
Colour	Grayish yellow / Yellow
Particle characteristics	Average number of particles: 1000-1200 mesh
Odour	No irritating smell
Odour threshold	No data available
pH	Not applicable
Melting point/freezing point	No data available
Initial boiling point and boiling range	No data available
Flash point	> 100°C (212°F)
Evaporation rate	No data available
Flammability (solid, gas)	Non-flammable
Flammable/Explosive Limits-Lower Vol %	No data available
Flammable/Explosive Limits-Upper Vol %	No data available
Vapour pressure	No data available
Vapour density	No data available
Density (20°C)	1.5±0.1 g/cm ³
Solubility (water)	Dissolve in water
Partition coefficient: n-octanol/water	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Kinematic viscosity (mm²/s)	13.8-33.3
Explosive properties	No data available
Oxidizing properties	No data available
Solid content	≥75%

9.2 Other information: Not available.



10. Stability and reactivity

- 10.1. Reactivity:** This product is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.
- 10.2. Chemical stability:** No information available.
- 10.3. Possibility of hazardous reactions:** The product is not flammable, and has no special danger.
- 10.4. Conditions to avoid:** Long-time direct sunlight and high temperature.
- 10.5. Incompatible materials:** No information available.
- 10.6. Hazardous decomposition products:** It may release smoke, carbon monoxide, carbon dioxide and other hazardous gas from thermal decomposition.

11. Toxicological information

11.1. Information on toxicological effects:

Acute toxicity:

Component	Oral LD50(rat)	Dermal LD50 (rabbit)	Inhalation LC50 4hr (rat)
Silicon dioxide CAS:14808-60-7	> 1000 mg/kg	-	-
Calcium carbonate CAS:471-34-1	>10000mg/kg	-	-

Skin corrosion/irritation:	No classification for this product.
Serious eye damage/eye irritation:	No classification for this product.
Respiratory sensitizer:	No classification for this product.
Skin sensitizer:	No classification for this product.
Germ cell mutagenicity:	No classification for this product.
Carcinogenicity:	No classification for this product.
Reproductive Toxicity:	No classification for this product.
Specific target organ toxicity, single exposure:	No classification for this product.
Specific target organ toxicity, repeated exposure:	No classification for this product.
Aspiration hazard:	No classification for this product.
Effects on or via lactation:	No classification for this product.

11.2. Endocrine disruptor information: The mixture does not contain endocrine disruptors.



12. Ecological information

12.1. Toxicity: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Chemical Name	Algae/aquatic plants	Fish	Crustacea
/	/	205: 96 h Pimephales promelas mg/L LC50 static	/

12.2. Persistence and Degradability: No data available for the whole product.

12.3. Bioaccumulative Potential: No data available for the whole product.

12.4 Mobility in Soil: No information available.

12.5 Results of PBT and vPvB Assessment: No information available.

12.6 Endocrine disruptor information: The mixture does not contain endocrine disruptors.

12.7 Additional information: No information available.

13. Disposal considerations

13.1. Waste treatment methods

13.1.1. Product / Packaging disposal:

Incineration or landfill is recommended for waste disposal.

After the contents are completely removed, the container is disposed of at the general waste collection point.

Waste codes / waste designations according to LoW

EWC code: 20 01 28

In other countries different conditions might be valid. All national and local laws have to be considered.

13.1.2. Waste treatment-relevant information:

Paste a label on the container indicating the possible hazards of the waste.

13.1.3. Sewage disposal-relevant information:

Do not discharge waste into sewage without any treatment.

13.1.4. Other disposal recommendations: Any disposal practice must be in compliance with country, local, state, and federal laws and regulations.

14. Transport Information

ADR and RID / Air-Transportation- IATA/ICAO/Sea-Transportation-IMO/IMDG.:

14.1. UN number or ID number: Not applicable.

14.2. UN proper shipping name: Not regulated.

14.3. Transport hazard class (es): Not applicable.

14.4. Packing group: Not applicable.

14.5. Assigned Pictogram: Not applicable.

14.6. Environmental hazards (Marine Pollutant (Yes/No)): No.

14.7. EMS NO.: Not applicable



14.8. Special precautions for user: Check whether the package is completed or sealed before transporting; make sure no damage of packages and prevent goods from falling down during transporting; the transport vehicle should be equipped with facilities for fire-fighting and accidental release handling; do NOT transport this product together with incompatible substances; stay away from fire and areas of high temperature during stopovers.

14.9. Transport in bulk according to Annex II of MARPOL and the IBC Code: Not applicable.

15. Regulatory information

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

Candidate List of Substances of very high concern (SVHC) according to ECHA: Not listed.

REACH Regulation Annex XVII Regulation List: Not listed.

REACH Regulation Annex XIV Authorization List: Not listed.

Germany – WGK: Not classified.

15.2. Chemical Safety Assessment: A Chemical Safety Assessment has not been carried out.

Other relevant regulations:

Sara:

Section 355 (extremely hazardous substances): Not listed.

SARA 313: Not listed.

Toxic Substances Control Act (TSCA):

Ingredient (s)	CAS No.	TSCA Inventory
Water	7732-18-5	Listed
Ethylene glycol	107-21-1	Listed
Silicon dioxide	14808-60-7	Listed
Calcium carbonate	471-34-1	Listed

Clean Water Act:

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA – Hazardous Substances
Not applicable	Not applicable	Not listed	Not listed	Not listed

Carcinogenicity categories: Not listed by ACGIH, IARC and NTP.



16. Other information

DISCLAIMER:

All the information of this SDS is true and effective, and only for reference. Our company will not control the way how people use it, neither will we be responsible for any consequence. The users shall decide how to properly use the product or adopt certain production way for some special purpose. The above-mentioned precautionary measures are helpful to avoid damage to the property or life safety during the operation or use of this product.

References:

EC No.1907/2006 (REACH)

EC No. 1272/2008 (CLP)

Commission Regulation (EU) 2015/830

For full text of Hazard- and EU Hazard-statements:	
Not applicable.	Not applicable.

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Classification according to Regulation (EC) Nr. 1272/2008	Classification procedure
Not applicable.	Not applicable.

Full description of some acronyms:

CAS-Chemical Abstracts Service

EINECS-European Inventory of Existing Commercial Chemical Substances

IMO-International Maritime Organization

IMDG-International Maritime Dangerous Goods

IATA-International Air Transport Association

ICAO-International Civil Aviation Organization

TSCA-Toxic Substances Control Act

OSHA-Occupational Safety and Health Administration

ACGIH-American Conference of Governmental Industrial Hygienists

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Safety Data Sheet (SDS)

Prepared in accordance with Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by
Commission Regulation (EU) 2020/878.

1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name: Headlight Restoration Kit (step3-UV protection solution)

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

1.3. Details of the supplier of the safety data sheet

Company: Zhejiang Guoneng Technology Co., Ltd.
Address: NO.1518 MENGXI ROAD, HUZHOU, ZHEJIANG, CHINA
TEL: 0086-572-2109399
FAX: 0086-572-2352225
Email: Sales@visbella.com

1.4. Emergency telephone number

Emergency telephone number: 0086-572-2109399
Intended use: It is used for sealing and bonding.
Further information: Zhejiang Guoneng Technology Co., Ltd.

2. Hazards identification

2.1. Classification of the substance or mixture:

2.1.1. Classification according to Regulation (EC) No 1272/2008 (CLP):

Skin corrosion/irritation Category 2- (H315) Serious eye damage/eye irritation Category 2- (H319)
Skin sensitization Category 1 - (H317) Specific target organ toxicity (single exposure) Category 3- (H335)

2.1.2. Additional information: For full text of Hazard- and EU Hazard-statements: see SECTION 16.

2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008 [CLP]:

Hazard Pictograms:



Signal Word: Warning

Hazard Statements: H315 - Causes skin irritation. H319 - Causes serious eye irritation.
H317 - May cause an allergic skin reaction. H335 - May Causes respiratory irritation.

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

P280 - Wear protective gloves/protective clothing/eye protection/face protection .

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water.

P321 - Specific treatment (see supplemental first aid instructions on this label).

P271 - Use only outdoors or in a well-ventilated area.

P501 - Dispose of contents/ container to an approved waste disposal plant.

Response Precautionary Statements: No special requirements.

Storage precautionary statements: No special requirements.

Disposal precautionary statements: No special requirements.

2.3. Other hazards:

This product does not contain any PBT or vPvB substances.

EU Specific Hazard Statements :None. Note: This product is prohibited for childre

Information of endocrine disrupting substances: No endocrine disruptors.



3. Composition/information on ingredients

Product description: substance (); preparation/mixture (√)

Ingredients/Components	CAS No.	EC No.	Index No.	% by weight	Classification according to Regulation (EC) No 1278/2008 (CLP).
Poly(oxy-1,2-ethanediyl), α -hydro- ω -hydroxy- Ethane-1,2-diol, ethoxylated	25322-68-3	500-038-2	Not available	40-50	Not available
2-Propenoic acid, homopolymer	9003-01-4	618-347-7	Not available	30-40	Not available
2-hydroxyethyl methacrylate	868-77-9	212-782-2	Not available	15-20	H315 Skin Irrit. 2 H317 Skin Sens. 1 H319 Eye Irrit. 2
2-hydroxy-2-methylpropiophenone	7473-98-5	231-272-0	Not available	1-5	H302 Acute Tox. 4 H412 Aquatic Chronic 3

Note: The mixture does not contain endocrine disruptors.

4. First aid measures

4.1. Description of first aid measures:

General notes: No information available.

Following inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

Following skin contact: Rinse skin with water [or shower]. If skin irritation occurs: Get medical advice/attention.

Following eye contact: Remove contact lenses if present and easy to do, continue rinsing. If eye irritation persists: Get medical advice/attention.

Following ingestion: Rinse mouth. Do not induce vomiting without professional instruction. Call a POISON CENTER or doctor/physician if you feel unwell.

Self-protection of the first aider: First aider: Pay attention to self-protection.

Use personal protection recommended in Section 8.

4.2. Most important symptoms/effects, acute and delayed: Irritating to eyes, skin and respiratory tract.

May cause an allergic skin reaction.

4.3. Indication of any immediate medical attention and special treatment needed: Treat according to symptoms.

5. Fire-fighting measures

5.1. Extinguishing Media

Suitable extinguishing media: Use water spray, dry chemicals, carbon dioxide, alcohol-resistant foam, dry sand for extinction. **Unsuitable Extinguishing Media:** High volume water jet. Discharging cylinder shape water from fire hose may lead to spread fire to the surroundings.

5.2. Special hazards arising from the substance or mixture: The product is not flammable, and has no special danger.

Hazardous combustion products: Thermal decomposition can lead to release of irritating and toxic gases and vapors.



5.3. Advice for fire-fighters:

For initial fire, use dry powder, carbon dioxide, etc.

For large fire, it is effective to use fire foam, etc. to shut off air supply.

Fire-fighters must wear self-contained breathing apparatus and full protective equipment (e.g. fire-retardant clothing).

Deny unnecessary entry to the place around the fire.

Remove containers from fire area if it can be done without risk.

Cool surrounding facilities, etc. with water spray.

Extinguish fire from upwind, and the fire extinguishing method should be appropriate to the situation in the surroundings.

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures: Use proper personal protective equipment as indicated in Section 8.

6.2. Environmental Precautions: Local authorities should be advised if significant spillages cannot be contained. Prevent entry into waterways, sewers, basements or confined areas. Comply with local and national laws and regulations.

6.3. Methods and materials for containment and cleaning up:

Small Spill:

Mop up or absorb with an inert dry material (e.g. Sand, soil, diatomite, dry lime) and place in an appropriately labeled waste disposal container.

Large Spill:

Isolate contaminated area and set up a warning board. The persons handling emergency are recommended wearing protective clothing. Do NOT touch spilled material. Keep away from heat and sources of ignition.

Build up dike or dig pit for collection. Spray fog water to cool down and dilute vapor. Dilute the spilled liquid till it is not combustible. Protect the working staff. Collect the spilled material with explosion-proof pump into an appropriate container and transport the waste to the disposal place.

6.4. Reference to other sections:

For more information, please refer to Section 8 and Section 13.

7. Handling and storage

7.1. Precautions for safe handling:

Handle in accordance with good industrial hygiene and safety practice. Ensure adequate ventilation, especially in confined areas. Avoid contact with skin, eyes or clothing. Wash contaminated clothing before reuse. Take precautionary measures against static discharges. Do not breathe dust/fume/gas/mist/vapors/spray. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Use personal protection recommended in Section 8.

7.2. Conditions for safe storage, including any in compatibilities

Technical measures and storage conditions: Store it in a well-ventilated, cool and dry store room. Long-time direct sunlight and high temperature. Keep out of the reach of children.

Incompatible materials: No information available.

Packaging materials: Opaque plastic bottle.

Requirements for storage rooms and vessels: Well-ventilated and dry.

Storage class

Further information on storage conditions: The storeroom should be equipped with proper facilities for accidental fire.

7.3. Specific end use(s): It is used for bonding.



Exposure controls/personal protection

8.1. Control parameters:

Chemical Name	Australia	Austria	Belgium	Denmark	European Union
Poly(oxy-1,2-ethanediyl), α -hydro- ω -hydroxy-Ethane-1,2-diol, ethoxylated (CAS #: 25322-68-3)	-	STEL 4000 mg/m ³ TWA: 1000 mg/m ³	-	-	-

Chemical Name	Latvia	France	Finland	Germany	Italy
Poly(oxy-1,2-ethanediyl), α -hydro- ω -hydroxy-Ethane-1,2-diol, ethoxylated (CAS #: 25322-68-3)	-	-	-	TWA: 1000 mg/m ³ Ceiling / Peak: 8000 mg/m ³	-

Chemical Name	Norway	United Kingdom	ACGIH TLV	OSHA PEL	NIOSH IDLH
2-Hydroxyethyl methacrylate (CAS #: 888-77-9)	TWA: 2 ppm TWA: 11 mg/m ³ STEL: 2 ppm STEL: 11 mg/m ³	-	-	-	-

8.2. Exposure controls:

8.2.1. Appropriate engineering controls

Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. Install washer eyes and safety showers near to the handling and storage area.

8.2.2. Personal protection equipment:

Hand protection:

Recommend wearing protective gloves (e.g. rubber gloves).



Eye protection:

Wear safety glasses when liquid may splash.



Respiratory Protection:

Use an approved respirator if exposure limits are exceeded or if irritation or other symptoms occur.



Body Protection:

Recommend wearing general working clothing.





General protective and hygienic measures:
Keep away from foodstuffs, beverages and feed.
Wash hands before breaks and at the end of work.
Avoid contact with eyes and broken skin.

8.2.3 Environmental exposure controls:
Maintain levels below Community environmental protection thresholds.

B Physical and chemical properties

9.1. Information on basic physical and chemical properties

General Information	
Physical state	Transparent liquid
Colour	Colorless or light yellow
Particle characteristics	Not applicable
Odour	No irritating smell
Odour threshold	No data available
pH	5.7-6.7
Melting point/freezing point	No data available
Initial boiling point and boiling range	>200°C (392°F)
Flash point	> 105°C (221 °F)
Evaporation rate	No data available
Flammability (solid, gas)	Non-flammable
Flammable/Explosive Limits-Lower Vol %	No data available
Flammable/Explosive Limits-Upper Vol %	No data available
Vapour pressure	No data available
Vapour density	No data available
Density (20°C)	1.05±0.05 g/cm ³
Solubility (water)	Miscible
Partition coefficient: n-octanol/water	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Kinematic viscosity (mm ² /s)	>800
Explosive properties	Not an explosive
Oxidizing properties	No data available

9.2 Other information: Not available.



10. Stability and reactivity

- 10.1. Reactivity:** This product is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.
- 10.2. Chemical stability:** No information available.
- 10.3. Possibility of hazardous reactions:** The product is not flammable, and has no special danger.
- 10.4. Conditions to avoid:** Heat, flames and sparks. Long-time direct sunlight and high temperature.
- 10.5. Incompatible materials:** No information available.
- 10.6. Hazardous decomposition products:** None under normal use conditions.

11. Toxicological information

11.1. Information on toxicological effects:

Acute toxicity:

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Poly(oxy-1,2-ethanediyl), α -hydr o- ω -hydroxy- Ethane-1,2-diol, ethoxylated (CAS #:25322-68-3)	22 g/kg (Rat) 28 g/kg (Rat)	> 20 g/kg (Rabbit) > 20 mL/kg (Rabbit)	-
Acrylic resin (CAS #: 9003-01-4)	10250 mg/kg (rat, carbomer 910) 4100 mg/kg (rat, carbomer 943)	3 g/kg (rat, carbomer 910)	1.71 mg/L (rat)
2-Hydroxyethyl methacrylate (CAS #: 868-77-9)	5050 mg/kg (Rat)	> 3000 mg/kg (Rabbit)	-
1-Propanone, 2-hydroxy-2-methyl-1-phenyl- (CAS #: 7473-98-5)	1694 mg/kg (Rat)	6929 mg/kg bw (Rat)	-

Skin corrosion/irritation:

Irritating to skin.

Serious eye damage/eye irritation:

Irritating to eyes.

Respiratory sensitizer:

No classification for this product.

Skin sensitizer:

May cause an allergic skin reaction.

Germ cell mutagenicity:

No classification for this product.

Carcinogenicity:

No classification for this product.

Reproductive Toxicity:

No classification for this product.

Specific target organ toxicity, single exposure:

May cause respiratory irritation.

Specific target organ toxicity, repeated exposure:

No classification for this product.

Aspiration hazard:

No classification for this product.

Effects on or via lactation:

No classification for this product.

11.2. Endocrine disruptor information: The mixture does not contain endocrine disruptors.



12. Ecological information

12.1. Toxicity:

Chemical Name	Algae/aquatic plants EC50	Fish LC50	Crustacea EC50
Poly(oxy-1,2-ethanediyl), α -hydroxy- ω -hydroxy- Ethane-1,2-diol, ethoxylated (CAS #:25322-68-3)	-	5000: 24 h Carassius auratus mg/L LC50	-
Acrylic resin (CAS #: 9003-01-4)	-	580: 96 h Lepomis macrochirus mg/L LC50	-
2-Hydroxyethyl methacrylate (CAS #: 868-77-9)	-	213 - 242: 96 h Pimephales promelas mg/L LC50 flow-through 227: 96 h Pimephales promelas mg/L LC50	-
1-Propanone, 2-hydroxy-2-methyl-1-phenyl- (CAS #: 7473-98-5)	1.95 mg/L : 72 h Desmodemus subspicatus	160 mg/L : 48 h Leuciscus idus	> 119 mg/L : 48 h Daphnia magna

12.2. Persistence and Degradability: No data available for the whole product.

12.3. Bioaccumulative Potential:

Chemical Name	Partition coefficient (LogPow)
2-Hydroxyethyl methacrylate (CAS #: 868-77-9)	0.47
Chemical Name	Bioconcentration factor (BCF)
2-Hydroxyethyl methacrylate (CAS #: 868-77-9)	1.54

12.4 Mobility in Soil: No information available.

12.5 Results of PBT and vPvB Assessment: PBT/vPvB assessment information is not available as chemical safety assessment not conducted.

12.6 Endocrine disruptor information: The mixture does not contain endocrine disruptors.

12.7 Additional information: No information available.

13. Disposal considerations

13.1. Waste treatment methods

13.1.1. Product / Packaging disposal:

It is recommended to use incineration method to dispose of waste.

After contents are completely removed, dispose of its container at hazardous or special waste collection point.

Waste codes / waste designations according to LoW

EWC code: 20 01 28

In other countries different conditions might be valid. All national and local laws have to be considered.

13.1.2. Waste treatment-relevant information:

Paste a label on the container indicating the possible hazards of the waste.

13.1.3. Sewage disposal-relevant information:

Do not discharge waste into sewage without any treatment.

13.1.4. Other disposal recommendations: Any disposal practice must be in compliance with country, local, state, and federal laws and regulations.

14. Transport Information

ADR and RID / Air-Transportation- IATA/ICAO/Sea-Transportation-IMO/IMDG.:

14.1. UN number or ID number: Not applicable.

14.2. UN proper shipping name: Not regulated.

14.3. Transport hazard class (es): Not applicable.

14.4. Packing group: Not applicable.

14.5. Assigned Pictogram: Not applicable.



14.6. Environmental hazards (Marine Pollutant (Yes/No)): No.

14.7. EMS NO.: Not applicable

14.8. Special precautions for user: Check whether the package is completed or sealed before transporting; make sure no damage of packages and prevent goods from falling down during transporting; the transport vehicle should be equipped with facilities for fire-fighting and accidental release handling; do NOT transport this product together with incompatible substances; stay away from fire and areas of high temperature during stopovers.

14.9. Transport in bulk according to Annex II of MARPOL and the IBC Code: Not applicable.

15. Regulatory information

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

Candidate List of Substances of very high concern (SVHC) according to ECHA: Not listed.

REACH Regulation Annex XVII Regulation List: Not listed.

REACH Regulation Annex XIV Authorization List: Not listed.

Germany – WGK: Not classified.

15.2. Chemical Safety Assessment: A Chemical Safety Assessment has not been carried out.

Other relevant regulations:

Sara:

Section 355 (extremely hazardous substances): Not listed.

SARA 313: Not listed.

Toxic Substances Control Act (TSCA):

Ingredient (s)	CAS No.	TSCA Inventory
Poly(oxy-1,2-ethanediyl), α -hydro- ω -hydroxy- Ethane-1,2-diol, ethoxylated	25322-68-3	Listed
2-Propenoic acid, homopolymer	9003-01-4	Listed
2-hydroxyethyl methacrylate	868-77-9	Listed
2-hydroxy-2-methylpropiophenone	7473-98-5	Listed

Clean Water Act:

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA – Hazardous Substances
Not applicable	Not applicable	Not listed	Not listed	Not listed

Carcinogenicity categories: Not listed by ACGIH, IARC and NTP.



16. Other information

DISCLAIMER:

All the information of this SDS is true and effective, and only for reference. Our company will not control the way how people use it, neither will we be responsible for any consequence. The users shall decide how to properly use the product or adopt certain production way for some special purpose. The above-mentioned precautionary measures are helpful to avoid damage to the property or life safety during the operation or use of this product.

References:

EC No.1907/2006 (REACH)

EC No. 1272/2008 (CLP)

Commission Regulation (EU) 2015/830

For full text of Hazard- and EU Hazard-statements:	
Not applicable.	Not applicable.

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Classification according to Regulation (EC) Nr.	Classification procedure
1272/2008	
Not applicable.	Not applicable.

Full description of some acronyms:

CAS-Chemical Abstracts Service

EINECS-European Inventory of Existing Commercial Chemical Substances

IMO-International Maritime Organization

IMDG-International Maritime Dangerous Goods

IATA-International Air Transport Association

ICAO-International Civil Aviation Organization

TSCA-Toxic Substances Control Act

OSHA-Occupational Safety and Health Administration

ACGIH-American Conference of Governmental Industrial Hygienists

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