MAKEAR™

SAFETY DATA SHEET

[In accordance with the criteria of Regulation No 1907/2006 (REACH) as amended]

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

1.1. Product identifier

Trade name: **TOP HARD GLASS**

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

Relevant identified uses: cosmetic mass; nail styling product; only for professional usage.

Uses advised against: not determined.

1.3. Details of the supplier of the safety data sheet

Supplier: **MAKEAR**

Address: K. Kolumba 9B, 51-503 Wrocław, Poland

Telephone number: +48 730 000 661

E-mail address for a competent person responsible for sds: bok@makear.pl

1.4. Emergency telephone number

112 (Europe's emergency telephone number). Emergency Action: In the event of a medical enquiry involving this product, please contact your doctor or local hospital accident and emergency department. Please check any national emergency information services in your country.

Section 2: Hazards identification

2.1. Classification of the substance or mixture

Skin Irrit. 2 H315, **Skin Sens. 1** H317, **Eye Irrit. 2** H319, **Aquatic Chronic 3** H412

Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Harmful to aquatic life with long lasting effects.

2.2. Label elements*

Hazard pictograms and signal words



WARNING

Substances which influenced product classification

Contains: 2-hydroxyethyl methacrylate.

Hazard statements

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H412	Harmful to aquatic life with long lasting effects.

Precautionary statements

P233	Keep container tightly closed.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection
P302+P352	IF ON SKIN: Wash with plenty of water with soap.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

* Cosmetic products packaged for the end user do not have to be labelled in accordance with Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 as amended. The unit package labelling of the cosmetic product should contain information in accordance with Art. 19 of the Regulation (EC) No 1223/2009 of the European Parliament and of the Council of 30 November 2009 on cosmetic products, as amended.

2.3. Other hazards

The substances contained in the product do not meet criteria for PBT or vPvB in accordance with Annex XIII of REACH Regulation. The product does not contain substances included in the list established in accordance with Article 59(1) for having endocrine disrupting properties, or substances identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0.1 % by weight.

Section 3: Composition/information on ingredients

3.1. Substances

Not applicable.

3.2. Mixtures

CAS number: 868-77-9 EC number: 212-782-2 Index number: 607-124-00-X Registration number: -	2-hydroxyethyl methacrylate Skin Irrit. 2 H315, Skin Sens. 1 H317, Eye Irrit. 2 H319	10-20 %
CAS number: 107-96-0 EC number: 203-537-0 Index number: - Registration number: -	3.3-mercaptopropionic acid Met. Corr. 1 H290, Acute Tox. 3 H301, Skin Corr. 1B H314, Eye Dam. 1 H318, Acute Tox. 4 H332	0-2 %
CAS number: 128-37-0 EC number: 204-881-4 Index number: - Registration number: -	2,6-di-tert-butyl-p-cresol Aquatic Acute 1 H400 (M=1), Aquatic Chronic 1 H410 (M=1)	0.1-0.3 %

Full text of each relevant H phrase is given in section 16 of SDS.

Section 4: First aid measures

4.1. Description of first aid measures

Skin contact: take off the contaminated clothes. Wash contaminated skin thoroughly with water and soap, then rinse. Seek medical advice if disturbing symptoms appear have product container or label at hand.

Eye contact: remove contact lenses. Rinse contaminated eyes thoroughly with water with eyelids wide open, for at least 15 minutes. Avoid strong stream of water – risk of damage of the cornea. Consult an ophthalmologist, if disturbing symptoms appear.

Ingestion: rinse mouth with water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Consult a doctor, show the label or safety data sheet. If the victim is unconscious, place in recovery position. Loosen tight clothing. Get medical attention immediately.

Inhalation: remove the victim to fresh air, keep warm and calm. Seek medical advice if disturbing symptoms appear. If the victim is unconscious, place in recovery position. Loosen tight clothing. Get medical attention immediately. Control and maintain airway patency. If breathing has stopped, administer artificial respiration.

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

Skin contact: redness, burning sensation, irritation, allergic reactions.

Eye contact: redness, tearing, pain, vision impairment, irritation.

Ingestion: stomach ache, vomiting, nausea, diarrhea.

Inhalation: headache, nausea, weakening of concentration. In case of a long inhalation of vapours of the product, it may cause dizziness, nausea, impaired concentration.

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

Physician makes a decision regarding further medical treatment after thoroughly examination of the injured. Treat symptomatically. An exposed person may require medical supervision for 48 hours as symptoms may be delayed.

Section 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media: foam, dry chemical, carbon dioxide (CO_2). Adapt the extinguishing media to surrounding materials.

Unsuitable extinguishing media: water jet – risk of the propagation of the flame.

5.2. Special hazards arising from the substance or mixture

During combustion harmful fumes consisting of e.g. carbon oxides and other unidentified products of thermal decomposition may be produced. Do not inhale combustion products, it may cause health risk.

5.3. Advice for firefighters

High temperature and fire can cause rapid and uncontrolled polymerization, which can lead to explosions and violent rupture of the tank or container. Personal protection typical in case of fire. Do not stay in the fire zone without the self-contained breathing apparatus and protective clothing resistant to chemicals. In case of fire cool endangered containers with water fog from safe distance. Do not allow residues of extinguishing agents to enter surface waters, sewage systems, sewage and soil. Collect used the extinguishing media.

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Limit the access for the outsiders into the breakdown area, until the suitable cleaning operations are completed. In case of a large breakdown, isolate the exposed area. Ensure that the consequences of failure remove only trained personnel. Use personal protective equipment. Ensure adequate ventilation. Avoid contamination of eyes, skin and clothing. Do not breathe vapours.

6.2. Environmental precautions

In case of release of large amounts of the product, it is necessary to take appropriate steps to prevent it from spreading into the environment. Notify relevant emergency services.

6.3. Methods and material for containment and cleaning up

The spillage collect with non-flammable liquid-binding material (e.g. sand, earth, universal binders, silica, etc.) and transfer to appropriate waste disposal containers. Collected material should be treated as waste. Clean and ventilate the contaminated area.

6.4. Reference to other sections

Appropriate conduct with waste product – section 13. Personal protection equipment – section 8.

Section 7: Handling and storage

7.1. Precautions for safe handling

Handle in accordance with good occupational hygiene and safety practices. Do not eat, drink and smoke in the workplace. Before break and after work wash hands carefully. Avoid contamination of skin, eyes and the clothing. Ensure adequate ventilation. Do not allow the vapours to concentrate in air. Eliminate sources of ignition – do not use open flames.

7.2. Conditions for safe storage, including any incompatibilities

Store only in tightly closed containers in a cool, dry and well-ventilated area. Store at room temperature. Resealed containers stored upright to prevent leakage. Keep away from food, beverages or feed for animals. Keep away from incompatible materials (see subsection 10.5). Protect from light and direct sunlight, as well as against cold and moisture. For product transfer operations, follow the manufacturer's instructions regarding the process temperature. Do not store near sources of heat and ignition. Protect the floor in the warehouse from leaks. The floor must be impervious and form collecting basins so that in the event of a spillage, liquid cannot escape beyond this area.

7.3. Specific end use(s)

No information about other uses than those mentioned in subsection 1.2.

Section 8: Exposure controls/personal protection

8.1. Control parameters

For substances contained in the product there are no defined occupational exposure limit values in the Community. Please check any national occupational exposure limit values in your country.

Legal Basis: Commission Directive 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU, 2019/1831/EU.

8.2. Exposure controls

Appropriate engineering controls

Use the product in accordance with good occupational hygiene and safety practices. Do not eat, drink and smoke during the work. Before break and after work wash hands carefully. Use protective hand cream. Avoid contamination of skin and eyes. Provide effective local and/or general ventilation.

Individual protection measures, such as personal protective equipment

The necessity to use and selection of appropriate personal protective equipment should take into account the type of risk posed by the product, working conditions and the way of handling the product. The personal protective equipment used must meet the requirements of Regulation (EU) 2016/425 and the relevant standards. The employer is obliged to provide protection measures appropriate to the activities performed and meeting all quality requirements, including their maintenance and cleaning. Any contaminated or damaged PPE must be replaced immediately.

Hand protection

Use protective gloves compliant with EN 374. Recommended material for gloves: neoprene; effectiveness level 2 or higher.

When using protective gloves during work with chemical products, it should be noted that the efficacy levels and corresponding breakthrough times do not indicate actual times of protection at a particular workplace, because the protection can be affected by many factors, e.g. temperature, other substances etc. If there are any signs of degradation, damage or change in appearance (colour, flexibility, shape), it is recommended to replace the gloves with a new pair. Please follow the manufacturer's instructions, not only in terms of gloves' usage, but also in terms of their cleaning, maintenance and storage. It is also important to know how to take off the gloves in order to avoid hands contamination.

Skin protection

Use protective clothing and footwear adequately to the task.

Eye protection

Use protective goggles (EN 166) if there is a risk of eye contamination.

Respiratory protection

Not required under normal conditions of work and with adequate ventilation. In case of high concentration of vapours in the air or breakdown, use respiratory protection compliant with EN 136.

Thermal hazards

Thermal hazards under normal operating conditions are not to be expected.

Environmental exposure controls

Do not allow the mixture to contaminate ground water, sewage systems, sewage and soil. Possible emissions from the ventilation systems and processing equipment should be controlled in order to determinate their compatibility with environmental protection regulations.

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	viscous liquid
Colour:	pale yellow
Odour:	characteristic; slight irritating
Melting point/freezing point:	< 0 °C
Boiling point or initial boiling point and boiling range:	not determined
Flammability:	product is not classified in flammability categories
Lower and upper explosion limit:	not determined
Flash point:	95 °C
Auto-ignition temperature:	not determined
Decomposition temperature:	not determined
pH:	not determined
Kinematic viscosity:	not determined
Solubility:	insoluble in water
Partition coefficient n-octanol/water (log value):	not determined
Vapour pressure:	not determined
Density and/or relative density:	1.05 (water = 1)
Relative vapour density:	not determined
Particle characteristics:	not applicable

9.2. Other information

Dynamitic viscosity:	0.250-0.650 Pa·s (25 °C)

Section 10: Stability and reactivity

10.1. Reactivity

The product is reactive. Hazardous polymerization may occur under the influence of high temperature and exposure to light. See also subsections 10.3-10.5.

10.2. Chemical stability

The product is stable under normal conditions of storage and use.

10.3. Possibility of hazardous reactions

In case of excessive heating and exposure to direct sunlight uncontrolled polymerization may occur.

10.4 Conditions to avoid

Avoid sources of ignition, naked flame, excessive heating, direct exposure to sunlight or UV light. Protect from freezing.

10.5 Incompatible materials

Polymerization initiators: strong oxidants, copper, copper alloys, carbon steel, iron, rust, strong bases, peroxides, strong acids.

10.6 Hazardous decomposition products

Not known.

Section 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Information regarding acute and/or delayed results of the exposure was defined on the basis of the information on product's classification and/or toxicological studies as well as the experience and knowledge of the manufacturer.

Acute toxicity

ATE_{mix} (oral) > 2000 mg/kg

ATE_{mix} (inhalation) > 20 mg/l

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

The acute toxicity estimate (ATE_{mix}) was determined using the appropriate conversion value from Table 3.1.2 in Annex I to CLP as amended

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/irritation

Causes serious eye irritation.

Respiratory or skin sensitization

May cause an allergic skin reaction.

Germ cell mutagenicity

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

Carcinogenicity

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

Reproductive toxicity

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

STOT-single exposure

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

STOT-repeated exposure

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

Aspiration hazard

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

Information on likely routes of exposure

Routes of exposure: skin contact, eye contact, inhalation, ingestion. For more information on the impact of each possible route of exposure, see subsection 4.2.

Symptoms related to the physical, chemical and toxicological characteristics

See subsection 4.2 of the safety data sheet.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

See subsection 4.2 of the safety data sheet.

11.2. Information on other hazards

Endocrine disrupting properties

The product does not contain substances included in the list established in accordance with Article 59(1) for having endocrine disrupting properties, or substances identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0.1 % by weight.

Other information

No other hazards are known.

Section 12: Ecological information

12.1. Toxicity

Harmful to aquatic life with long lasting effects.

12.2. Persistence and degradability

Data for the mixture are not available.

12.3. Bioaccumulative potential

Do not expect to significant bioaccumulation.

12.4. Mobility in soil

Product is mobile in soil and aquatic environment. Mobility of components of the mixture in soil depends on the hydrophilic and hydrophobic properties and biotic and abiotic conditions of soil, including its structure, climatic conditions, seasons and soil organisms.

12.5. Results of PBT and vPvB assessment

The substances contained in the product do not meet criteria for PBT or vPvB in accordance with Annex XIII of REACH Regulation.

12.6. Endocrine disrupting properties

The product does not contain substances included in the list established in accordance with Article 59(1) for having endocrine disrupting properties, or substances identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0.1 % by weight.

12.7. Other adverse effects

The mixture is not classified as hazardous to the ozone layer. Consider other harmful effects of individual components of the mixture on the environment (e.g, global warming potential).

Section 13: Disposal considerations

13.1. Waste treatment methods

Disposal methods for the mixture: do not empty into drains. Do not allow it to contaminate surface and ground water. Do not store on municipal landfills. Reuse or disposal of a waste product should be carried out in accordance with applicable regulations. Store residues in original containers. Do not mix with other waste. Waste code should be assigned in the place of its formation.

Disposal methods for used packing: empty containers should be reused/recycled/eliminated in accordance with the local legislation. Reuse, reusable packaging after cleaning. Contaminated packaging should be treated in the same way as the product.

Legal basis: Directive 2008/98/EC as amended, 94/62/EC as amended.

Section 14: Transport information

14.1. UN number or ID number

Not applicable. Product is not classified as dangerous during road, sea or air transport.

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

The product is not hazardous to the environment according to transport regulations.

14.6. Special precautions for users

Not applicable.

14.7. Maritime transport in bulk according to IMO instruments

Not applicable.

Section 15: Regulatory information

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

Regulation No 1907/2006/EC of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC as amended.

Regulation No 1272/2008/EC of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 as amended.

Commission Regulation No 2020/878/EU of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste and repealing certain Directives as amended.

European Parliament and Council Directive 94/62/EC of 20 December 1994 on packaging and packaging waste as amended.

Regulation 2016/425/EU of the European Parliament and of the Council of 9 March 2016 on personal protective equipment and repealing Council Directive 89/686/EEC.

Commission Directive 2000/39/EC of 8 June 2000 establishing a first list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

Commission Directive 2006/15/EC of 7 February 2006 establishing a second list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC and amending Directives 91/322/EEC and 2000/39/EC.

Commission Directive 2009/161/EU of 17 December 2009 establishing a third list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC and amending Commission Directive 2000/39/EC.

Commission Directive 2017/164/EU of 31 January 2017 establishing a fourth list of indicative occupational exposure limit values pursuant to Council Directive 98/24/EC, and amending Commission Directives 91/322/EEC, 2000/39/EC and 2009/161/EU.

Commission Directive 2019/1831/EU of 24 October 2019 establishing a fifth list of indicative occupational exposure limit values pursuant to Council Directive 98/24/EC and amending Commission Directive 2000/39/EC.

The Agreement concerning the International Carriage of Dangerous Goods by Road (**ADR**).

IMDG Code International Maritime Dangerous Goods Code.

IATA Dangerous Goods Regulations.

15.2. Chemical safety assessment

A Chemical Safety Assessment is not required for mixtures in accordance with REACH Regulation.

Section 16: Other information

Full text of indicated H phrases mentioned in section 3

H290	May be corrosive to metals.
H301	Toxic if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

Clarification of aberrations and acronyms

PBT	Persistent, Bioaccumulative and Toxic substance
vPvB	very Persistent, very Bioaccumulative substance
TWA	Time Weighted Average
STEL	Short-term exposure limit
ECHA	The European Chemicals Agency
Acute Tox. 3, 4	Acute toxicity category 3, 4
Aquatic Acute 1	Acute hazardous to the aquatic environment category 1
Aquatic Chronic 1	Chronic hazardous to the aquatic environment category 1
Eye Dam. 1	Serious eye damage category 1
Eye Irrit. 2	Eye irritation category 2
Met. Corr. 1	Substance or mixture corrosive to metals category 1
Skin Corr. 1B	Skin corrosion category 1B
Skin Irrit. 2	Skin irritation category 2
Skin Sens. 1	Skin sensitization category 1

Trainings

Before commencing working with the product, the user should learn the Health & Safety regulations, regarding handling chemicals, and in particular, undergo a proper workplace training.

Procedures used for the mixture classification according with Regulation 1272/2008/EC (CLP) as amended

Skin Irrit. 2 H315	calculation method
Skin Sens. 1 H317	calculation method
Eye Irrit. 2 H319	calculation method
Aquatic Chronic 3 H412	calculation method

Key literature references and sources of data

This SDS was prepared on the basis of safety data sheet provided by manufacturer, additional manufacturer's data, literature data, online databases as well as our knowledge and experience, taking into account current legislation.

Additional information

Date of issue:	01.09.2023
Version:	1.0/EN (on the basis of producer's data).

The information above is based on a current available data concerning the product, but also on the experience and knowledge in this field of the producer. They are neither a quality description of the product nor a guarantee of particular features. They are to be treated as aid to safety in transport, storage and usage of the product. That does not free the user from the responsibility of improper usage of the information above and also of improper compliance with the law norms in the field.