

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 19.07.2021 / 0001

Revision date: Vesion: 19.07.2021 / 0001 Valid from: 19.07.2021 / DF print date: 19.07.2021

marbaglue+ Art.Nr. 06093, 06094

## Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

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

#### 1.1 Product identifier

# marbaglue+

Art.Nr. 06093, 06094

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

Relevant identified uses of the substance or mixture:

Uses advised against: No information available at present

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

Karl Marbach GmbH & Co. KG Karl-Marbach-Straße 1 74080 Heilbronn

Tel: +49 (0) 7131/918-228 Fax: +49 (0) 7131/918-228 www.marbach.com

Qualified person's e-mail address: info@chemical-check.de, k.schnurbusch@chemical-check.de Please DO NOT use for requesting Safety Data Sheets

#### 1.4 Emergency telephone number

2

Emergency information services / official advisory body:

#### Telephone number of the company in case of emergencies:

+49 (0) 700 / 24 112 112 (WIC)

# **SECTION 2: Hazards identification**

H315-Causes skin irritation.

## 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) 1272/2008 (CLP)

Hazard class Hazard category Hazard statement H319-Causes serious eve irritation. Eve Irrit. STOT SE H335-May cause respiratory irritation.

# 2.2 Label elements

Skin Irrit.

Labeling according to Regulation (EC) 1272/2008 (CLP)



# Warning

H319-Causes serious eye irritation. H335-May cause respiratory irritation. H315-Causes skin

P261-Avoid breathing vapours or spray. P280-Wear protective gloves / protective clothing and

eye protection / face protection.
P302+P352-IF ON SKIN: Wash with plenty of water and soap. 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 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P312-Call a POISON CENTRE / doctor if you feel unwell.

EUH202-Cvanoacrylate, Danger, Bonds skin and eyes in seconds, Keep out of the reach of

Ethyl 2-cyanoacrylate

### 2.3 Other hazards

The mixture does not contain any vPvB substance (vPvB = very persistent, very bioaccumulative) or is not included under XIII of the regulation (EC) 1907/2006 (< 0,1 %).

The mixture does not contain any PBT substance (PBT = persistent, bioaccumulative, toxic) or is not included under XIII of the regulation (EC) 1907/2006 (< 0,1 %).

# **SECTION 3: Composition/information on ingredients**

# 3.1 Substances

# n.a. ? 9 Mixtures

3.2 WIXTUIES	
Ethyl 2-cyanoacrylate	
Registration number (REACH)	01-2119527766-29-XXXX
Index	607-236-00-9
EINECS, ELINCS, NLP, REACH-IT List-No.	230-391-5
CAS	7085-85-0

content %	80-<100
Classification according to Regulation (EC) 1272/2008	Eye Irrit. 2, H319
(CLP), M-factors	STOT SE 3, H335
, ,,	Skin Irrit. 2, H315

For the text of the H-phrases and classification codes (GHS/CLP), see Section 16.

The substances named in this section are given with their actual, appropriate classification!

For substances that are listed in appendix VI, table 3.1 of the regulation (EC) no. 1272/2008 (CLP regulation) this means that all notes that may be given here for the named classification have been taken into account.

# **SECTION 4: First aid measures**

# 4.1 Description of first aid measures

First-aiders should ensure they are protecte Never pour anything into the mouth of an unconscious person!

Remove person from danger area.

Supply person with fresh air and consult doctor according to symptoms.

If the person is unconscious, place in a stable side position and consult a doctor.

#### Skin contact

Remove polluted, soaked clothing immediately, wash thoroughly with plenty of water and soap. Call a doctor immediately, keep datasheet at hand Do not attempt to force glued areas of skin apart.

Wash thoroughly for several minutes using copious water - call doctor immediately, have Data Sheet available. Protect uninjured eye.

#### Ingestion

Rinse the mouth thoroughly with water.

Do not induce vomiting - give copious water to drink. Consult doctor immediately

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

ns and effects can be found in section 11 and the absorp tion route in section 4.1.

Watering eyes
Dermatitis (skin inflammation)

Allergic reaction possible.

May cause sensitisation by inhalation. Respiratory distress

In certain cases, the symptoms of poisoning may only appear after an extended period / after several hours

**4.3 Indication of any immediate medical attention and special treatment needed** In case of irritation of the lungs, perform first-aid with controlled-dosage aerosol dexamethasone.

# **SECTION 5: Firefighting measures**

# 5.1 Extinguishing media

Suitable extinguishing media

CO2 Extinction powde

Water jet spray Alcohol resistant foam

# Unsuitable extinguishing media

# 5.2 Special hazards arising from the substance or mixture

In case of fire the following can develop

Oxides of carbon Oxides of nitrogen Hydrogen cyanide Toxic gases

**5.3** Advice for firefighters In case of fire and/or explosion do not breathe fumes. Protective respirator with independent air supply.

According to size of fire

Full protection, if necessary.

Dispose of contaminated extinction water according to official regulations.

# **SECTION 6: Accidental release measures**

# 6.1 Personal precautions, protective equipment and emergency procedures

Remove possible causes of ignition - do not smoke Ensure sufficient supply of air.

Avoid inhalation, and contact with eyes or skin

### 6.2 Environmental precautions

If leakage occurs, dam up.

Resolve leaks if this possible without risk.

Prevent from entering drainage system.

Prevent surface and ground-water infiltration, as well as ground penetration.

6.3 Methods and material for containment and cleaning up

#### Soak up with absorbent material (e.g. universal binding agent, sand, diator ous earth, sawdust) and

dispose of according to Section 13. 6.4 Reference to other sections

# For personal protective equipment see Section 8 and for disposal instructions see Section 13. **SECTION 7: Handling and storage**

In addition to information given in this section, relevant information can also be found in section 8 and 6.1. **7.1 Precautions for safe handling** 

7.1.1 General recommendations

Ensure good ventilation.
Avoid inhalation of the vapours.
Keep away from sources of ignition - Do not smoke.

Avoid contact with eyes or skin.

Handle and open container with care

Eating, drinking, smoking, as well as food-storage, is prohibited in work-room. Observe directions on label and instructions for use. Use working methods according to operating instructions.

# 7.1.2 Notes on general hygiene measures at the workplace General hygiene measures for the handling of chemicals are applicable. Wash hands before breaks and at end of work. Keep away from food, drink and animal feedingstuffs.

Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

## 7.2 Conditions for safe storage, including any incompatibilities

Keep out of access to unauthorised individual

Not to be stored in gangways or stair wells.
Store product closed and only in original packing

Do not store with alkalis. Do not store with acids.

Do not store with oxidizing agents.

Protect from direct sunlight and warming.



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Store cool. Store in a dry place 7.3 Specific end use(s)

#### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

Œ	Chemical Name	Ethyl 2-cyanoacrylate	Content %:80- <100	
	VEL-TWA:	WEL-STEL: 0,3 ppm (1,5 mg/m3)		
1	Nonitoring procedures:			
E	BMGV:	Other information:		

Ethyl 2-cyanoacrylate	)					
Area of application	Exposure route / Environmental compartment	Effect on health	Descri ptor	Valu e	Unit	Note
Consumer	Human - inhalation	Long term, systemic effects	DNEL	9,25	mg/m3	
Consumer	Human - inhalation	Long term, local effects	DNEL	9,25	mg/m3	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	9,25	mg/m3	
Workers / employees	Human - inhalation	Long term, local effects	DNEL	9,25	mg/m3	

B WEL-TWA = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted age with reference period) EH40. AGW = "Arbeitsplatzgrenzwert" (workplace limit value, Germany).

(8) = Inhalable fraction (Directive 2017/164/EU, Directive 2004/37/CE). (9) = Respirable fraction (Directive 2017/164/EU, Directive 2004/37/CE). (11) = Inhalable fraction (Directive 2004/37/CE). (12) = Inhalable fraction. Respirable fraction in those Member States that implement, on the date of the entry into force of this Directive, a biomonitoring system with a biological limit value not exceeding 0,002 mg Cd/g creatinine in urine (Directive 2004/37/CE). | WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute of the control reference period).

(8) = Inhalable fraction (2017/164/EU, 2017/2398/EU). (9) = Respirable fraction (2017/164/EU, (8) = Innalable fraction (2017/164/EU, 2017/2398/EU). (9) = Kespirable fraction (2017/164/EU, 2017/2398/EU). (10) = Short-term exposure limit value in relation to a reference period of 1 minute (2017/164/EU). | BMGV = Biological monitoring guidance value EH40. BGW = "Biologischer Grenzwert" (biological limit value, Germany) | Other information: Sen = Capable of causing occupational asthma. Sk = Can be absorbed through skin. Carc = Capable of causing cancer and/or heritable genetic damage.

\*\* = The exposure limit for this substance is repealed through the TRGS 900 (Germany) of January 2006 with

the goal of revision.

(13) = The substance can cause sensitisation of the skin and of the respiratory tract (Directive 2004/37/CE), (14) = The substance can cause sensitisation of the skin (Directive 2004/37/CE).

# 8.2 Exposure controls

### 8.2.1 Appropriate engineering controls

Ensure good ventilation. This can be achieved by local suction or general air extraction

If this is insufficient to maintain the concentration under the WEL or AGW values, suitable breathing protection should be worn.

Applies only if maximum permissible exposure values are listed here.

Suitable assessment methods for reviewing the effectiveness of protection measures adopted include

metrological and non-metrological investigative techniques.
These are specified by e.g. EN 14042.
EN 14042 "Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents".

8.2.2 Individual protection measures, such as personal protective equipment

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work.

Keep away from food, drink and animal feedingstuffs.

Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

Eve/face protection:

Tight fitting protective goggles with side protection (EN 166).

Skin protection - Hand protection:

Chemical resistant protective gloves (EN 374). If applicable

If applicable
Protective gloves made of butyl (EN 374).
Protective nitrile gloves (EN 374).
Minimum layer thickness in mm:

Permeation time (penetration time) in minutes:

>= 480

Protective gloves made of PE laminate (EN 374).
Protective hand cream recommended.
Unsuitable material:

Cotton gloves. Protective PVC gloves (EN 374).

Skin protection - Other:
Protective working garments (e.g. safety shoes EN ISO 20345, long-sleeved protective working garments).

Respiratory protection: Normally not necessary.

Thermal hazards: Not applicable

Additional information on hand protection - No tests have been performed

In the case of mixtures, the selection has been made according to the knowledge available and the information about the contents.

Selection of materials derived from glove manufacturer's indications.

Final selection of glove material must be made taking the breakthrough times, permeation rates and degradation into account.

Selection of a suitable glove depends not only on the material but also on other quality characteristics and

varies from manufacturer to manufacturer.

In the case of mixtures, the resistance of glove materials cannot be predicted and must therefore be tested

The exact breakthrough time of the glove material can be requested from the protective glove manufacturer and must be observed.

### 8.2.3 Environmental exposure controls

#### **SECTION 9: Physical and chemical properties**

#### 9.1 Information on basic physical and chemical properties

Physical state: Colour: Odour: Odour threshold: Liquid Clear, Colourless Penetrating, Characteristic Not determined

pH-value: n.a. Not determined

Melting point/freezing point: Initial boiling point and boiling range: Flash point: Evaporation rate: >149 °C ~87 °C Not determined Flammability (solid, gas): Not determined Lower explosive limit: Upper explosive limit: Vapour pressure: Vapour density (air = 1): Not determined Not determined

<0,2 mmHg (25°C)
~3
1,05 (20°C, relative density)

Density: Bulk density: Not determined Solubility(ies):
Water solubility:
Partition coefficient (n-octanol/water):
Auto-ignition temperature: Not determined Insoluble Not determined Not determined

Not determined Decomposition temperature: Viscosity: Not determined Explosive properties: Not determined Oxidising properties:

9.2 Other information Not determined

Miscibility: Fat solubility / solvent: Not determined Not determined Not determined Conductivity: Surface tension Not determined Solvents content Not determined

# **SECTION 10: Stability and reactivity**

#### 10.1 Reactivity

# 10.2 Chemical stability Stable with proper storage and handling. 10.3 Possibility of hazardous reactions

Polymerisation poss

#### 10.4 Conditions to avoid

See also section 7. Heating, open flame, ignition sources

Protect from humidity

#### 10.5 Incompatible materials See also section 7.

Polymerisation possible with: Water Bases

Acids Oxidizing agents

Amines Alcohols

## 10.6 Hazardous decomposition products

See also section 5.2 No decomposition when used as directed.

# **SECTION 11: Toxicological information**

# 11.1 Information on toxicological effects

Possibly more information on health effects, see Section 2.1 (classification)

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	int			m ¯		
Acute toxicity, by oral						n.d.a.
route:						
Acute toxicity, by						n.d.a.
dermal route:						
Acute toxicity, by						n.d.a.
inhalation:						
Skin						n.d.a.
corrosion/irritation:						
Serious eye						n.d.a.
damage/irritation:						
Respiratory or skin						n.d.a.
sensitisation:						
Germ cell						n.d.a.
mutagenicity:						
Carcinogenicity:						n.d.a.
Reproductive toxicity:						n.d.a.
Specific target organ						n.d.a.
toxicity - single						
exposure (STOT-SE):						
Specific target organ						n.d.a.
toxicity - repeated						1
exposure (STOT-RE):						
Aspiration hazard:						n.d.a.
Symptoms:						n.d.a.

Ethyl 2-cyanoacrylate						
Toxicity / effect	Endpo int	Value	Unit	Organis m	Test method	Notes
Acute toxicity, by oral route:	LD50	>5000	mg/k g	Rat	OECD 401 (Acute Oral Toxicity)	
Acute toxicity, by dermal route:	LD50	>2000	mg/k g	Rabbit	OECD 402 (Acute Dermal Toxicity)	
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute Dermal Irritation/Corrosio n)	Skin Irrit. 2
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye Irritation/Corrosio n)	Eye Irrit. 2



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Germ cell			OECD 471	Negative
mutagenicity:			(Bacterial	
			Reverse	
			Mutation Test)	
Germ cell			OECD 476 (In	Negative
mutagenicity:			Vitro	
			Mammalian Cell	
			Gene Mutation	
			Test)	
Germ cell			OECD 473 (In	Negative
mutagenicity:			Vitro	
			Mammalian	
			Chromosome	
			Aberration Test)	
Aspiration hazard:				No
Symptoms:				respiratory
				distress,
				coughing,
				mucous
				membrane
				irritation,
				watering
				eyes
Specific target organ				STOT SE
toxicity - single				3, H335
exposure (STOT-SE),				
inhalative:				

# **SECTION 12: Ecological information**

Possibly more information on environmental effects, see Section 2.1 (classification)

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Toxicity / effect	Endpoin	Tim	Valu	Unit	Organism	Test	Notes
-	t	е	e		_	method	
12.1. Toxicity to							n.d.a.
fish:							
12.1. Toxicity to							n.d.a.
daphnia:							
12.1. Toxicity to							n.d.a.
algae:							
12.2.							n.d.a.
Persistence and							
degradability:							
12.3.							n.d.a.
Bioaccumulative							
potential:							
12.4. Mobility in							n.d.a.
soil:							
12.5. Results of							n.d.a.
PBT and vPvB							
assessment							
12.6. Other						1	n.d.a.
adverse effects:							

ſ	Ethyl 2-cyanoacrylate								
	Toxicity / effect	Endpoin	Tim	Valu	Unit	Organism	Test	Notes	
		t	е	е			method		
	12.3. Bioaccumulative potential:	Log Pow		1,42				Not to be expected	
	12.5. Results of PBT and vPvB assessment							No PBT substance, No vPvB substance	

# **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

# For the substance / mixture / residual amounts

Ed disposal code no.:

The waste codes are recommendations based on the scheduled use of this product.

Owing to the user's specific conditions for use and disposal, other waste codes may be allocated under certain circumstances. (2014/955/EU)

08 04 09 waste adhesives and sealants containing organic solvents or other hazardous substances

Recommendation:

Sewage disposal shall be discouraged.
E.g. suitable incineration plant.
E.g. dispose at suitable refuse site.

# For contaminated packing material

Pay attention to local and national official regulations.

Empty container completely.

Uncontaminated packaging can be recycled.

Dispose of packaging that cannot be cleaned in the same manner as the substance.

15 01 10 packaging containing residues of or contaminated by hazardous substances

# **SECTION 14: Transport information**

#### General statements

n.a Transport by road/by rail (ADR/RID) 14.2. UN proper shipping name: 14.3. Transport hazard class(es): n.a. 14.4. Packing group: n.a. Classification code n a 14.5. Environmental hazards: Tunnel restriction code: Not applicable

## Transport by sea (IMDG-code)

14.2. UN proper shipping name:
14.3. Transport hazard class(es): n.a. n.a. n.a 14.4. Packing group: Marine Pollutant:

14.5. Environmental hazards Transport by air (IATA)

14.2. UN proper shipping name: 14.3. Transport hazard class(es):

n.a. 14.4. Packing group: 14.5. Environmental hazards: Not applicable

14.6. Special precautions for user

Unless specified otherwise, general measures for safe transport must be followed.

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code Non-dangerous material according to Transport Regulations

#### **SECTION 15: Regulatory information**

Not applicable

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

Observe restrictions:

Comply with trade association/occupational health regulations. Directive 2010/75/EU (VOC):

#### 15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

# **SECTION 16: Other information**

These details refer to the product as it is delivered. Employee instruction/training in handling hazardous materials is required

Classification and processes used to derive the classification of the mixture in accordance with the ordinance (EG) 1272/2008 (CLP):

Classification in accordance with regulation (EC) No. 1272/2008 (CLP)	Evaluation method used
Eye Irrit. 2, H319	Classification according to calculation procedure.
STOT SE 3, H335	Classification according to calculation procedure.
Skin Irrit. 2, H315	Classification according to calculation procedure.

The following phrases represent the posted Hazard Class and Risk Category Code (GHS/CLP) of the product and the constituents (specified in Section 2 and 3). H315 Causes skin irritation.

H319 Causes serious eve irritation. H335 May cause respiratory irritation

Eye Irrit. — Eye irritation STOT SE — Specific target organ toxicity - single exposure - respiratory tract irritation Skin Irrit. — Skin irritation

# Any abbreviations and acronyms used in this document:

acc., acc. to according, according to

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

European Agreement concerning the International Carriage of Dangerous Goods by Road)

AOX Adsorbable organic halogen compounds

approx. approximately Art., Art. no.Article number

ASTM ASTM International (American Society for Testing and Materials)

Acute Toxicity Estimate
Bundesanstalt für Materialforschung und -prüfung (Federal Institute for Materials Research and Testing, Germany)

BAuA Bundesanstalt für Arbeitsschutz und Arbeitsmedizin (= Federal Institute for Occupational Health

BAUA Bundesanstalt für Arbeitsschutz und Arbeitsmedizin (= Federal Institute for Occupational Heal and Safety, Germany)
BSEF The International Bromine Council body weight
CAS Chemical Abstracts Service
CLP Classification, Labelling and Packaging (REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures)
CMR carcinogenic, mutagenic, reproductive toxic
DMEL Derived Minimum Effect Level
DNEL Derived No Effect Level
dw dw weight

dw dry weight

for example (abbreviation of Latin 'exempli gratia'), for instance e.g. EC

ECHA EEC EINECS

for example (abbrevation of Latin exempli gratia), for instance European Community
European Chemicals Agency
European Economic Community
European Inventory of Existing Commercial Chemical Substances
European List of Notified Chemical Substances **ELINCS** 

ΕN European Norms EPA United States Environmental Protection Agency (United States of America)

et cetera
European Union
Ethylene-vinyl alcohol copolymer etc. EU EVAL

Fax. Fax number

gen. GHS

GWP

Fax number general Globally Harmonized System of Classification and Labelling of Chemicals Globally Harmonized System of Classification and Labelling of Chemicals Global warming potential International Agency for Research on Cancer International Air Transport Association International Bulk Chemical (Code) International Maritime Code for Dangerous Goods IARC IATA IBC (Code) IMDG-code

incl. IUCLID IUPAC LC50 including, inclusive
International Uniform Chemical Information Database
International Union for Pure Applied Chemistry
Lethal Concentration to 50 % of a test population

LD50 Lethal Dose to 50% of a test population (Median Lethal Dose)

LQ MARPOL Limited Quantities International Convention for the Prevention of Marine Pollution from Ships

not applicable not available not checked n.a. n.av. n.c.

n.d.a no data available Organisation for Economic Co-operation and Development organic persistent, bioaccumulative and toxic OECD

org. PBT

PE PNEC Polyethylene Predicted No Effect Concentration



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pm parts per million
PVC Polyvinylchloride
REACH Registration, Evaluation, Authorisation and Restriction of Chemicals (REGULATION (EC) No
1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals)
REACH-IT List-No. 9xx-xxx-x No. is automatically assigned, e.g. to pre-registrations without a CAS
No. or other numerical identifier. List Numbers do not have any legal significance, rather they are purely
technical identifiers for processing a submission via REACH-IT.
RID Règlement concernant le transport International ferroviaire de marchandises Dangereuses (=
Regulation concerning the International Carriage of Dangerous Goods by Rail)
SVHC Substances of Very High Concern
Tel. Telephone
UN RTDG United Nations Recommendations on the Transport of Dangerous Goods

UN RTDG United Nations Recommendations on the Transport of Dangerous Goods VOC Volatile organic compounds vPvB very persistent and very bioaccumulative wet weight

The statements made here should describe the product with regard to the necessary safety precautions - they

are not meant to guarantee definite characteristics - but they are based on our present up-to-date knowledge. No responsibility.

These statements were made by: Chemical Check Platz 1-7, D-32839 Steinheim, Tel.: +49 5233 94 17 0, Fax: +49 5233 94 17 90

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