

according to UK REACH Regulation

Print date: 13.03.2023

### VBC 4M06

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

### 1.1. Product identifier

VBC 4M06

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

### Use of the substance/mixture

Adhesives, sealants

Uses advised against

Any non-intended use.

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

Company name:	Meusburger Georg GmbH &	Co KG
Street:	Kesselstrasse 42	
Place:	A-6960 Wolfurt	
Telephone: e-mail: Internet:	+43 5574 6706-0 office@meusburger.com www.meusburger.com	Telefax: +43 5574 6706-12
Responsible Department:	Dr. Gans-Eichler Chemieberatung GmbH Otto-Hahn-Str. 36 D-48161 Muenster	e-mail: info@tge-consult.de Tel.: +49 2534 41594-0 www.tge-consult.de
A Emergency telephone	Poison Information Center M	Jainz Germany Tel: +49(0)6131/19240

# 1.4. Emergency telephone

Poison Information Center Mainz, Germany, Tel: +49(0)6131/19240

### number:

### Further Information

Safety Data Sheet according to UK-REACH Regulation

### SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

### GB CLP Regulation

Skin Irrit. 2; H315 Eye Irrit. 2; H319 STOT SE 3; H335

Full text of hazard statements: see SECTION 16.

# 2.2. Label elements

### **GB CLP Regulation**

### Hazard components for labelling ethyl 2-cyanoacrylate

Signal word:

### **Pictograms:**



Warning

### Hazard statements H315

Causes skin irritation.

Page 1 of 12



according to UK REACH Regulation

Print date: 13.03.2023

### VBC 4M06

H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
Precautionary statemer	nts
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352	IF ON SKIN: Wash with plenty of water.
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 CENTER/doctor if you feel unwell.
P337+P313	If eye irritation persists: Get medical advice/attention.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
Questial labelling of som	

## Special labelling of certain mixtures

EUH202

Cyanoacrylate. Danger. Bonds skin and eyes in seconds. Keep out of the reach of children.

### 2.3. Other hazards

High slip hazard because of leaking or spilled product.

The substances in the mixture (> 0.1%) do not meet the PBT/vPvB criteria according to UK REACH. This product does not contain a substance (> 0.1%) that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

# SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

### Hazardous components

CAS No	Chemical name	Quantity
EC No	GHS Classification	
REACH No		
Index No		
7085-85-0	ethyl 2-cyanoacrylate	70 - 90 %
230-391-5	Skin Irrit. 2, Eye Irrit. 2, STOT SE 3; H315 H319 H335	
01-2119527766-29		
607-236-00-9		
123-31-9	1,4-dihydroxybenzene; hydroquinone; quinol	< 0.1 %
204-617-8	Carc. 2, Muta. 2, Acute Tox. 4, Eye Dam. 1, Skin Sens. 1, Aquatic Acute 1; H351 H341 H302 H318 H317 H400	
604-005-00-4		

### Full text of H and EUH statements: see section 16.

### Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity	
	Specific Conc. Limits, M-factors and ATE			
7085-85-0	230-391-5	ethyl 2-cyanoacrylate	70 - 90 %	
	dermal: LD50 = >2000 mg/kg; oral: LD50 = >5000 mg/kg_STOT SE 3; H335: >= 10 - 100			
123-31-9	204-617-8	1,4-dihydroxybenzene; hydroquinone; quinol	< 0.1 %	

Page 2 of 12



according to UK REACH Regulation

Print date: 13.03.2023

### VBC 4M06

oral: LD50 = 302 mg/kg Aquatic Acute 1; H400: M=10

### **Further Information**

Product does not contain listed SVHC substances > 0.1 % according to UK REACH.

### **SECTION 4: First aid measures**

### 4.1. Description of first aid measures

### **General information**

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Cyanacrylate! Danger! Skin and eyelids will stick together in seconds. Keep out of the reach of children. Take off contaminated clothing and wash it before reuse.

### After inhalation

Remove casualty to fresh air and keep warm and at rest. If breathing is irregular or stopped, administer artificial respiration. Where appropriate artificial ventilation. In case of respiratory tract irritation, consult a physician.

### After contact with skin

Remove contaminated, saturated clothing immediately. After contact with skin, wash immediately with: Water and soap. In case of skin irritation, seek medical treatment. Do not peel solidified product off the skin.

### After contact with eyes

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. In case of troubles or persistent symptoms, consult an ophthalmologist.

### After ingestion

Do NOT induce vomiting. Rinse mouth thoroughly with water. Let water be drunken in little sips (dilution effect). Never give anything by mouth to an unconscious person or a person with cramps. Immediately call a doctor.

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

Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation.

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

Treat symptomatically.

### **SECTION 5: Firefighting measures**

### 5.1. Extinguishing media

### Suitable extinguishing media

Carbon dioxide (CO2). Dry extinguishing powder. Alcohol resistant foam. Atomized water.

### Unsuitable extinguishing media

High power water jet.

### 5.2. Special hazards arising from the substance or mixture

Can be released in case of fire: Carbon monoxide (CO). Carbon dioxide (CO2). Nitrogen oxides (NOx). Hydrocyanic acid (hydrocyanic acid).

### 5.3. Advice for firefighters

In case of fire and/or explosion do not breathe fumes. In case of fire: Wear self-contained breathing apparatus.

### Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Co-ordinate fire-fighting measures to the fire surroundings.

## SECTION 6: Accidental release measures

Page 3 of 12



according to UK REACH Regulation

Print date: 13.03.2023

VBC 4M06

6.1. Personal precautions, protective equipment and emergency procedures

### General advice

See protective measures under point 7 and 8.

### For non-emergency personnel

Personal protection equipment: see section 8

### For emergency responders

No special measures are necessary.

### 6.2. Environmental precautions

Discharge into the environment must be avoided.

### 6.3. Methods and material for containment and cleaning up

### For containment

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).

Treat the recovered material as prescribed in the section on waste disposal.

### For cleaning up

Clean contaminated objects and areas thoroughly observing environmental regulations.

### 6.4. Reference to other sections

Safe handling: see section 7 Personal protection equipment: see section 8 Disposal: see section 13

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

### Advice on safe handling

Wear suitable protective clothing. See section 8.

### Advice on protection against fire and explosion

Usual measures for fire prevention.

### Advice on general occupational hygiene

Always close containers tightly after the removal of product. Do not eat, drink, smoke or sneeze at the workplace. Wash hands before breaks and after work.

### Further information on handling

General protection and hygiene measures: refer to chapter 8

### 7.2. Conditions for safe storage, including any incompatibilities

### Requirements for storage rooms and vessels

Keep container tightly closed in a cool, well-ventilated place.

### Hints on joint storage

Do not store together with: Explosives. Oxidizing solids. Oxidizing liquids. Radioactive substances. Infectious substances. Food and animal feedingstuff.

### Further information on storage conditions

Keep the packing dry and well sealed to prevent contamination and absorbtion of humidity.

Recommended storage temperature: 20 °C

Protect against: frost. UV-radiation/sunlight. heat. Humidity

Do not store at temperatures over: 60 °C

Container should not be closed gas-tight.

### 7.3. Specific end use(s)

Page 4 of 12



according to UK REACH Regulation

Print date: 13.03.2023

### VBC 4M06

Page 5 of 12

Revision date: 06.03.2023

### See section 1.

# SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

### Exposure limits (EH40)

CAS No	Substance	ppm	mg/m³	fibres/ml	Category	Origin
7085-85-0	Ethyl cyanoacrylate	0.3	1.5		STEL (15 min)	WEL
123-31-9	Hydroquinone	-	0.5		TWA (8 h)	WEL

### **DNEL/DMEL** values

CAS No	Substance		-	-
DNEL type		Exposure route	Effect	Value
7085-85-0	ethyl 2-cyanoacrylate			
Worker DNEL,	long-term	inhalation	systemic	9,25 mg/m³
Worker DNEL,	long-term	inhalation	local	9,25 mg/m³
Consumer DNEL, long-term		inhalation	systemic	9,25 mg/m³
Consumer DNEL, long-term		inhalation	local	9,25 mg/m³

# Additional advice on limit values

To date, no national critical limit values exist.

# 8.2. Exposure controls







### Appropriate engineering controls

If handled uncovered, arrangements with local exhaust ventilation should be used if possible. If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means.

# Individual protection measures, such as personal protective equipment

### Eye/face protection

Wear safety glasses; chemical goggles (if splashing is possible). BS/EN 166

### Hand protection

-	
	Wear suitable gloves.
	Suitable material:
	FKM (fluororubber) Thickness of glove material: 0,4 mm
	Breakthrough time >= 8 h
	Butyl rubber Thickness of glove material: 0,5 mm
	Breakthrough time >= 8 h
	CR (polychloroprenes, Chloroprene rubber) Thickness of glove material: 0,5 mm
	Breakthrough time >= 8 h
	NBR (Nitrile rubber) Thickness of glove material: 0,35 mm
	Breakthrough time >= 8 h
	PVC (Polyvinyl chloride) Thickness of glove material: 0,5 mm
	Breakthrough time >= 8 h



according to UK REACH Regulation

Print date: 13.03.2023

### VBC 4M06

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. The selected protective gloves have to satisfy the specifications of the Personal Protective Equipment at Work (Amendment) Regulations 2022 and the standard EN ISO 374.

Check leak tightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well.

### Skin protection

Suitable protective clothing: Lab apron.

Minimum standard for preventive measures while handling with working materials are specified in the TRGS 500 (D).

### **Respiratory protection**

With correct and proper use, and under normal conditions, breathing protection is not required.

Respiratory protection necessary at:

Exceeding exposure limit values

Insufficient ventilation

Generation/formation of aerosols

Suitable respiratory protection apparatus: Combination filtering device (EN 14387) - Type: ABEK-P2/3 The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used.

### **Environmental exposure controls**

Do not allow uncontrolled discharge of product into the environment. This material and its container must be disposed of in a safe way.

### SECTION 9: Physical and chemical properties

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

Physical state:	liquid	-
Colour:	colourless	
Odour:	characteristic	
Odour threshold:	not determined	1
Melting point/freezing point:		not determined
Boiling point or initial boiling point and		150 °C
boiling range:		
Flammability:		not determined
Lower explosion limits:		not determined
Upper explosion limits:		not determined
Flash point:		87 °C
Auto-ignition temperature:		500 °C
Decomposition temperature:		not determined
pH-Value:		not determined
Viscosity / kinematic:		not determined
Water solubility:		practically insoluble
Solubility in other solvents		
Acetone		
Dissolution rate:		not relevant
Partition coefficient n-octanol/water:	:	SECTION 12: Ecological information
Dispersion stability:		not relevant
Vapour pressure:		not determined

Page 6 of 12

# meusburger

# Safety Data Sheet

### according to UK REACH Regulation

Print date: 13.03.2023

# VBC 4M06

Density: Bulk density: Relative vapour density: Particle characteristics:	1,05 g/cm³ not determined not determined not relevant
9.2. Other information	
Information with regard to physical hazard classes Explosive properties none	
Sustaining combustion:	No data available
Self-ignition temperature Gas: Oxidizing properties none	not determined
Other safety characteristics	
Evaporation rate:	not determined
Solvent separation test:	not determined
Solvent content:	not determined
Solid content:	not determined
Sublimation point:	not determined
Softening point:	not determined
Pour point:	not determined
Viscosity / dynamic:	not determined
Flow time:	not determined

### **Further Information**

No information available.

### **SECTION 10: Stability and reactivity**

### 10.1. Reactivity

No information available.

### 10.2. Chemical stability

The mixture is chemically stable under recommended conditions of storage, use and temperature. Decomposition temperature:  $75^{\circ}C$ 

### 10.3. Possibility of hazardous reactions

Reacts with : Oxidizing agents, strong. Strong acid. Water. - Polymerization.

### 10.4. Conditions to avoid

Protect against: Light. UV-radiation/sunlight. heat. Cold Moisture.

# 10.5. Incompatible materials

Materials to avoid: Oxidizing agents, strong. Strong acid. Water.

### 10.6. Hazardous decomposition products

Does not decompose when used for intended uses.

# SECTION 11: Toxicological information

# 11.1. Information on hazard classes as defined in GB CLP Regulation

Page 7 of 12



according to UK REACH Regulation

Print date: 13.03.2023

### VBC 4M06

# Toxicocinetics, metabolism and distribution

No data available.

### Acute toxicity

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

CAS No	Chemical name					
	Exposure route	Dose		Species	Source	Method
7085-85-0	ethyl 2-cyanoacrylate					
	oral	LD50 mg/kg	>5000	Rat	ECHA Dossier	
	dermal	LD50 mg/kg	>2000	Rabbit	ECHA Dossier	
123-31-9	1,4-dihydroxybenzene; hydroquinone; quinol					
	oral	LD50 mg/kg	302	Rat	IUCLID	

# Irritation and corrosivity

Causes skin irritation.

Causes serious eye irritation.

### Sensitising effects

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

### Carcinogenic/mutagenic/toxic effects for reproduction

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

ethyl 2-cyanoacrylate (CAS No. 7085-85-0): In-vitro mutagenicity: Method: OECD Guideline 473 (In Vitro Mammalian Chromosomal Aberration Test) OECD Guideline 476 (In Vitro Mammalian Cell Gene Mutation Test) Result: negative. Literature information: ECHA dossier

### STOT-single exposure

May cause respiratory irritation. (ethyl 2-cyanoacrylate)

### 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.

### Specific effects in experiment on an animal

No data available.

### 11.2. Information on other hazards

### Endocrine disrupting properties

This product does not contain a substance (> 0.1 %) that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

## Other information

No data available.

### SECTION 12: Ecological information

Page 8 of 12



according to UK REACH Regulation

Print date: 13.03.2023

**VBC 4M06** 

### 12.1. Toxicity

The product has not been tested.

### 12.2. Persistence and degradability

The product has not been tested.

### 12.3. Bioaccumulative potential

### Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
7085-85-0	ethyl 2-cyanoacrylate	0,78

### 12.4. Mobility in soil

No data available.

### 12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH.

The aforementioned statement applies to substances contained in the product with a minimum content of 0.1 %.

# 12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

The aforementioned statement applies to substances contained in the product with a minimum content of 0.1 %.

### 12.7. Other adverse effects

No data available.

### Further information

Do not allow to enter into surface water or drains.

### **SECTION 13: Disposal considerations**

### 13.1. Waste treatment methods

### **Disposal recommendations**

Observe in addition any national regulations! Consult the local waste disposal expert about waste disposal. Non-contaminated packages may be recycled.

According to (EWC) European Waste Catalogue, allocation of waste identity numbers/waste descriptions must be carried out in a specific way for every industry and process. Control report for waste code/ waste marking according to (EWC) European Waste Catalogue:

### List of Wastes Code - residues/unused products

080409 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU of adhesives and sealants (including waterproofing products); waste adhesives and sealants containing organic solvents or other hazardous substances; hazardous waste

### List of Wastes Code - used product

080409 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU of adhesives and sealants (including waterproofing products); waste adhesives and sealants containing organic solvents or other hazardous substances; hazardous waste

Page 9 of 12



according to UK REACH Regulation

Print date: 13.03.2023

### VBC 4M06

### List of Wastes Code - contaminated packaging

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by hazardous substances; hazardous waste

### Contaminated packaging

Handle contaminated packages in the same way as the substance itself.

### **SECTION 14: Transport information**

### Land transport (ADR/RID)

14.1. UN number or ID number:14.2. UN proper shipping name:14.3. Transport hazard class(es):14.4. Packing group:

Inland waterways transport (ADN) <u>14.1. UN number or ID number:</u> <u>14.2. UN proper shipping name:</u> <u>14.3. Transport hazard class(es):</u>

## <u>14.4. Packing group:</u> Marine transport (IMDG)

<u>14.1. UN number or ID number:</u> <u>14.2. UN proper shipping name:</u> <u>14.3. Transport hazard class(es):</u>

Air transport (ICAO-TI/IATA-DGR) <u>14.1. UN number or ID number:</u> <u>14.2. UN proper shipping name:</u>

14.3. Transport hazard class(es):

### 14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS:

### 14.6. Special precautions for user

Refer to section 6 - 8

### 14.7. Maritime transport in bulk according to IMO instruments not relevant

not relevant

# SECTION 15: Regulatory information

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

No

# EU regulatory information

 Restrictions on use (REACH, annex XVII):

 Entry 3, Entry 75

 2010/75/EU (VOC):
 No informat

 2004/42/EC (VOC):
 No informat

 Information according to 2012/18/EU
 Not subject

 (SEVESO III):
 Additional information

No information available. No information available. Not subject to 2012/18/EU (SEVESO III)

# No dangerous good in sense of these transport regulations. No dangerous good in sense of these transport regulations.

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Page 10 of 12



Page 11 of 12

Revision date: 06.03.2023

# Safety Data Sheet

according to UK REACH Regulation

Print date: 13.03.2023

### **VBC 4M06**

Safety Data Sheet according to UK-REACH Regulation The mixture is classified as hazardous according to GHS (GB CLP). UK REACH Appendix XVII, No (mixture): 3

### National regulatory information

Employment restrictions:

Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC). 1 - slightly hazardous to water

# Water hazard class (D): Additional information

Ingestion: May cause irritation of the mout, nose and throat. Skin: harmful. Inhalation: harmful. Eye contact: may be irritating to the eyes. Classification according to directive 67/548/EEC or 1999/45/EC: Xn, F, R10-20/21-66

### 15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

### **SECTION 16: Other information**

### Changes

Rev 1,0, 18.08.2015, Initial release Rev 2,0, 07.05.2018, Changes in chapter: 1 - 16 Rev 3,0, 20.10.2021, Changes in chapter: 2 - 16 Rev 4,0; 06.03.2023, Changes in chapter: 1 - 16

### Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) CAS: Chemical Abstracts Service CLP: Classification, Labeling, Packaging DNEL: Derived No Effect Level d: day(s) EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances ECHA: European Chemicals Agency ECOSAR: Ecological Structure Activity Relationships EWC: European Waste Catalogue IARC: INTERNATIONAL AGENCY FOR RESEARCH ON CANCER IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA) ICAO: International Civil Aviation Organization ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO) IUCLID: International Uniform ChemicaL Information Database GHS: Globally Harmonized System of Classification and Labelling of Chemicals GefStoffV: Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany) OECD: Organisation for Economic Co-operation and Development PNEC: Predicted No Effect Concentration PBT: Persistent, bio-cumulative, toxic QSAR: Quantitative Structure-Activity Relationship RID: Regulation Concerning the International Transport of Dangerous Goods by Rail **RTECS: Registry of Toxic Effects of Chemical Substances** SVHC: Substance of Very High Concern



Page 12 of 12

Revision date: 06.03.2023

# Safety Data Sheet

according to UK REACH Regulation

Print date: 13.03.2023

### VBC 4M06

TRGS: Technische Regeln für Gefahrstoffe UN: United Nations UVCB: Chemical Substances of Unknown or Variable Composition, Complex Reaction Products and Biological Materials vPvB: very persistent and very bio-cumulative VOC: Volatile Organic Compounds w: week(s)

### Classification for mixtures and used evaluation method according to GB CLP Regulation

Classification	Classification procedure
Skin Irrit. 2; H315	Calculation method
Eye Irrit. 2; H319	Calculation method
STOT SE 3; H335	Calculation method

### Relevant H and EUH statements (number and full text)

H302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H341	Suspected of causing genetic defects.
H351	Suspected of causing cancer.
H400	Very toxic to aquatic life.
EUH202	Cyanoacrylate. Danger. Bonds skin and eyes in seconds. Keep out of the reach of children.

### **Further Information**

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)