

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

1.1. Product identifier

Product form : Mixture
Product name : Aqua UV Ink
UFI : M3RU-MP4C-F302-9XEJ
Product code : 1285700
Product group : Cleaning product.

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

Relevant identified uses

Main use category : Professional use

1.3. Details of the supplier of the safety data sheet

Kurt Zecher GmbH
Görlitzer Str. 2
DE D-33098 Paderborn
Deutschland
T +49 (0) 52 51 / 17 46 – 0, F +49 (0) 52 51 / 17 46 – 20
contact@zecher.com, www.zecher.com

1.4. Emergency telephone number

Emergency number : Poison centre

Country/Area	Organisation/Company	Address	Emergency number	Comment
Germany	Giftinformationszentrum der Länder Rheinland-Pfalz und Hessen Klinische Toxikologie, Universitätsmedizin der Johannes Gutenberg-Universität Mainz	Langenbeckstraße 1 Gebäude 601 55131 Mainz	+49 (0) 6131 19240	

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Skin corrosion/irritation, Category 2 H315
Serious eye damage/eye irritation, Category 1 H318
Skin sensitisation, Category 1 H317
Full text of H-statements: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

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

Hazard pictograms (CLP) :



GHS05

GHS07

Signal word (CLP) :

Danger

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Contains	: 2-phenoxyethanol; Imidazolium compounds, 1-[2-(2-carboxyethoxy)ethyl]-1(or 3)- (2-carboxyethyl)-4,5-dihydro-2-norcoco alkyl, hydroxides, disodium salts.; 1-Hydroxyethylidene-1,1-diphosphonic acid
Hazard statements (CLP)	: H315 - Causes skin irritation. H317 - May cause an allergic skin reaction. H318 - Causes serious eye damage.
Precautionary statements (CLP)	: P280 - Wear protective gloves, protective clothing, eye protection, face protection. P302+P352 - IF ON SKIN: Wash with plenty of soap and 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. P333+P313 - If skin irritation or rash occurs: Get medical advice/attention. P362+P364 - Take off contaminated clothing and wash it before reuse. P501 - Dispose of contents/container in accordance with local/regional/national/international regulation.

2.3. Other hazards

Contains no PBT and/or vPvB substances $\geq 0.1\%$ assessed in accordance with REACH Annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are not 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 %

SECTION 3: Composition/information on ingredients

3.2. Mixture

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
2-(2-butoxyethoxy)ethanol	CAS-No.: 112-34-5 EC-No.: 203-961-6 EC Index-No.: 603-096-00-8 REACH-no: 01-2119475104-44	< 20	Eye Irrit. 2, H319
Ethanolamine substance with a Community workplace exposure limit	CAS-No.: 141-43-5 EC-No.: 205-483-3 EC Index-No.: 603-030-00-8 REACH-no: 01-2119486455-28	< 5	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT SE 3, H335 Aquatic Chronic 3, H412
2-phenoxyethanol	CAS-No.: 122-99-6 EC-No.: 204-589-7 EC Index-No.: 603-098-00-9 REACH-no: 01-2119488943-21	< 5	Acute Tox. 4 (Oral), H302 Eye Irrit. 2, H319
Imidazolium compounds, 1-[2-(2-carboxyethoxy)ethyl]-1(or 3)- (2-carboxyethyl)-4,5-dihydro-2-norcoco alkyl, hydroxides, disodium salts.	CAS-No.: 93820-52-1 EC-No.: 946-533-0 REACH-no: 01-2120750377-50	< 5	Eye Dam. 1, H318 Skin Sens. 1, H317

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Specific concentration limits:		
Name	Product identifier	Specific concentration limits (%)
Ethanolamine	CAS-No.: 141-43-5 EC-No.: 205-483-3 EC Index-No.: 603-030-00-8 REACH-no: 01-2119486455-28	(5 ≤ C ≤ 100) STOT SE 3; H335

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general	: In all cases of doubt, or when symptoms persist, seek medical attention.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Take to hospital.
First-aid measures after skin contact	: Take off contaminated clothing. Rinse skin with water/shower. Transport to hospital immediately.
First-aid measures after eye contact	: Rinse with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice and attention.
First-aid measures after ingestion	: Rinse mouth out with water. Do NOT induce vomiting. Transport to hospital immediately.

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

Symptoms/effects after inhalation	: Unconsciousness. Dizziness. Headache. Nausea. Drowsiness.
Symptoms/effects after skin contact	: Pungent. Pain. Redness. Severe burns.
Symptoms/effects after eye contact	: Pungent. Pain. Redness. Blurred vision.
Symptoms/effects after ingestion	: Caustic, lack of breath, vomiting, blisters on lips and tongue, burning pain in mouth and throat, gullet and stomach.

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

None.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: Water spray. Powder. Foam. CO2.
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5.2. Special hazards arising from the substance or mixture

Fire hazard	: None.
Explosion hazard	: None.

5.3. Advice for firefighters

Precautionary measures fire	: No special precautions required.
Firefighting instructions	: No specific firefighting instructions required.
Other information	: None known.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures	: When using do not eat, drink or smoke. Keep container tightly closed. Keep out of frost. Keep out of reach of children.
No additional information available	

6.2. Environmental precautions

Prevent entry to sewers and public waters.

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6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Collect leaking and spilled liquid in sealable containers as far as possible. Absorb remaining liquid with sand or inert absorbent and remove to safe place.

6.4. Reference to other sections

See Headings 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Material should be handled with caution. Avoid spillage.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep container tightly closed and in well ventilated place. Keep out of frost.
Packaging materials : Suitable packing materials: Plastic packaging.

Germany

Storage class (LGK, TRGS 510) : LGK 8B - Non-combustible corrosive substances

7.3. Specific end use(s)

Cleaning product.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls

Appropriate engineering controls

Appropriate engineering controls:

The level of protection and types of measures depend on workplace conditions. Adequate ventilation must be provided so that exposure limits are not exceeded. For more information, see section 7.

Personal protection equipment

Personal protective equipment:

Gloves. Safety glasses. Protective clothing.

Personal protective equipment symbol(s):



Eye and face protection

Eye protection:

Safety glasses

Skin protection

Skin and body protection:

Impermeable clothing

Hand protection:

Nitrile rubber gloves (EN374). Breakthrough time: > 480 Min. Layer thickness : 0.35 mm. Gloves must be replaced after each use and whenever signs of wear or perforation appear. Always wash hands after handling the product

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Other skin protection Materials for protective clothing		
Condition	Material	Standard
Excellent resistance:	Polyvinylchloride (PVC)	EN 14605
Excellent resistance:	Polypropylene (PP)	EN 14605

Respiratory protection

Respiratory protection:

Ensure adequate air ventilation. In case of insufficient ventilation, wear suitable respiratory equipment

Respiratory protection			
Device	Filter type	Condition	Standard
Mask	ABEK		

Environmental exposure controls

Environmental exposure controls:

Comply with relevant environmental regulations limiting discharges to air, water and soil. Protect the environment by applying proper control measures to prevent or reduce releases. For more information, see sections 6 and 13.

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 applicable.
Melting point	: 0 °C
Freezing point	: Not available
Boiling point	: 100 – 245 °C
Flammability	: Not applicable.
Explosive properties	: Not applicable.
Oxidising properties	: Not applicable.
Lower explosive limit (LEL)	: 0.85 vol %
Upper explosive limit (UEL)	: 24.6 vol %
Flash point	: /.
Auto-ignition temperature	: 200 °C
Decomposition temperature	: No data available.
pH	: 10.9 @ 20°C.
pH solution	: Not applicable.
Viscosity, kinematic	: 1 mm ² /s @ 20°C.
Viscosity, dynamic	: 1 mPa·s @ 20°C.
Solubility	: Soluble in water.
Partition coefficient n-octanol/water (Log Kow)	: Not available
Vapour pressure	: 2332 Pa @ 20°C.
Vapour pressure at 50°C	: Not available
Density	: 1.01 kg/l at 20 °C.
Relative density	: Not available
Relative vapour density at 20°C	: Not available
Particle characteristics	: Not applicable

9.2. Other information

Information with regard to physical hazard classes

Explosion limits : 1.13 – 10.6 vol %

Other safety characteristics

Relative evaporation rate (butylacetate=1) : 0.3

VOC content : 2.35 %

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SECTION 10: Stability and reactivity

10.1. Reactivity

Keep container tightly closed and in well ventilated place. Keep out of frost.

10.2. Chemical stability

Acids.

10.3. Possibility of hazardous reactions

None known.

10.4. Conditions to avoid

Material should be handled with caution. Avoid spillage.

10.5. Incompatible materials

Metals.

10.6. Hazardous decomposition products

Acids.

SECTION 11: Toxicological information

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

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

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ATE CLP (oral)	2000 mg/kg
ATE CLP (dermal)	2000 mg/kg

Ethanolamine (141-43-5)

LD50 oral rat	1089 mg/kg
LD50 dermal rabbit	2504 mg/kg
LC50 Inhalation - Rat	11 mg/l/4h

2-phenoxyethanol (122-99-6)

LD50 oral rat	500 mg/kg
LD50 dermal rabbit	≥ 5000 mg/kg
LC50 Inhalation - Rat	≥ 50 mg/l/4h

Imidazolium compounds, 1-[2-(2-carboxyethoxy)ethyl]-1(or 3)- (2-carboxyethyl)-4,5-dihydro-2-norcoco alkyl, hydroxides, disodium salts. (93820-52-1)

LD50 oral rat	≥ 5000 mg/kg
LD50 dermal rabbit	≥ 5000 mg/kg
LC50 Inhalation - Rat	≥ 50 mg/l/4h

2-(2-butoxyethoxy)ethanol (112-34-5)

LD50 oral rat	3305 mg/kg
LD50 dermal rabbit	≥ 2764 mg/kg
LC50 Inhalation - Rat	≥ 50 mg/l/4h

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Skin corrosion/irritation	: Causes skin irritation. pH: 10.9 @ 20°C.
Serious eye damage/irritation	: Causes serious eye damage. pH: 10.9 @ 20°C.
Respiratory or skin sensitisation	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified

Ethanolamine (141-43-5)

STOT-single exposure	May cause respiratory irritation.
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified

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Viscosity, kinematic	1 mm ² /s @ 20°C.
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11.2. Information on other hazards

No additional information available

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general	: No data available.
Hazardous to the aquatic environment, short-term (acute)	: Not classified
Hazardous to the aquatic environment, long-term (chronic)	: Not classified

Ethanolamine (141-43-5)

LC50 - Fish [1]	349 mg/l (Cyprinus carpio, 4d)
EC50 - Crustacea [1]	65 mg/l (Daphnia)
EC50 72h - Algae [1]	2.1 – 2.8 mg/l
NOEC chronic fish	1.24 mg/l (Oryzias latipes, 41d)
NOEC chronic crustacea	0.85 mg/l (21d)
NOEC chronic algae	1 mg/l (72h)

2-phenoxyethanol (122-99-6)

LC50 - Fish [1]	> 100 mg/l
EC50 72h - Algae [1]	> 500 mg/l
NOEC chronic fish	23 mg/l 34 d, Pimephales promelas

2-(2-butoxyethoxy)ethanol (112-34-5)

LC50 - Fish [1]	1300 mg/l (96 hr, (Lepomis microlophus)
EC50 - Crustacea [1]	> 100 mg/l (Daphnia)
ErC50 algae	> 100 mg/l

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12.2. Persistence and degradability

Aqua UV Ink	
Persistence and degradability	This surfactant complies with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.
Ethanolamine (141-43-5)	
Persistence and degradability	Rapidly degradable
2-phenoxyethanol (122-99-6)	
Persistence and degradability	Rapidly degradable
Imidazolium compounds, 1-[2-(2-carboxyethoxy)ethyl]-1(or 3)- (2-carboxyethyl)-4,5-dihydro-2-norcoco alkyl, hydroxides, disodium salts. (93820-52-1)	
Persistence and degradability	Not rapidly degradable
2-(2-butoxyethoxy)ethanol (112-34-5)	
Persistence and degradability	Rapidly degradable
Biodegradation	100 % 28 days (OECD 302 B)

12.3. Bioaccumulative potential

Aqua UV Ink	
Bioaccumulative potential	No data available.
Ethanolamine (141-43-5)	
Partition coefficient n-octanol/water (Log Pow)	-2.3 – -1.31
2-phenoxyethanol (122-99-6)	
Partition coefficient n-octanol/water (Log Pow)	1.16 BCF : 0,35

12.4. Mobility in soil

Aqua UV Ink	
Ecology - soil	WGK 1. Completely soluble in water.

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Endocrine disrupting properties

No additional information available

12.7. Other adverse effects

Additional information : No data available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional waste regulation	: Disposal must be done according to official regulations.
Product/Packaging disposal recommendations	: Discharging into rivers and drains is forbidden.
HP Code	: HP4 - "Irritant – skin irritation and eye damage:" waste which on application can cause skin irritation or damage to the eye.

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SECTION 14: Transport information

In accordance with ADR

14.1. UN number or ID number

Not regulated for transport

14.2. UN proper shipping name

Proper Shipping Name (ADR) : Not regulated

14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR) : Not regulated

14.4. Packing group

Packing group (ADR) : Not regulated

14.5. Environmental hazards

Other information : No supplementary information available

14.6. Special precautions for user

Overland transport

Not regulated

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

EU-Regulations

REACH Annex XVII (Restriction List)

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

Dual-Use Regulation (428/2009)

Contains no substance subject to the COUNCIL REGULATION (EC) No 428/2009 of 5 May 2009 setting up a Community regime for the control of exports, transfer, brokering and transit of dual-use items.

VOC Directive (2004/42)

VOC content : 2.35 %

Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

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Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

National regulations

Germany

Water hazard class (WGK) : WGK 1, Slightly hazardous to water (Classification according to AwSV, Annex 1).
List of sensitizing substances (TRGS 907) : Contains sensitizing substances according TRGS 907.
Hazardous Incident Ordinance (12. BImSchV) : Is not subject to the Hazardous Incident Ordinance (12. BImSchV)

15.2. Chemical safety assessment

No data available

SECTION 16: Other information

Indication of changes		
Section	Changed item	Comments
3.2		
8.1		
9.1		
9.2		
11.1		
12.1		

Full text of H- and EUH-statements:	
Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
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.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H412	Harmful to aquatic life with long lasting effects.
Skin Corr. 1B	Skin corrosion/irritation, Category 1, Sub-Category 1B
Skin Sens. 1	Skin sensitisation, Category 1
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation

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Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.