

QUIXX Repair Resin

Safety Data Sheet

according to US OSHA Hazard Communication Standard (HCS 2012); 29 CFR Part 1910.1200

Date of issue: 05/22/2019

Revision date: 05/22/2019

Version: 1.00



SECTION 1: Identification

1.1. Identification

Trade name : QUIXX Repair Resin

1.2. Recommended use and restrictions on use

Use of the substance/mixture : adhesives

1.3. Supplier

Supplier

E.V.I. GmbH
Hainbuchenring 4
Neuried, 82061 - Germany
T +49 (0)89 745062-0 - F +49 (0)89 745062-99

Email competent person

sds@kft.de

Supplier

WNV Corp.
6100 Blu Lagoon Dr. - Suite 105
Miami, FL 33126 - USA
T +1 (305) 261 6755 - F +1 (305) 262 3116

1.4. Emergency telephone number

Emergency number : Poison control (USA) 1-800-222-1222

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS US classification

Skin corrosion/irritation Category 2	H315 Causes skin irritation
Serious eye damage/eye irritation Category 2	H319 Causes serious eye irritation
Skin sensitization, Category 1	H317 May cause an allergic skin reaction
Specific target organ toxicity (single exposure) Category 3	H335 May cause respiratory irritation

Full text of H statements : see section 16

2.2. GHS Label elements, including precautionary statements

GHS US labeling

Hazard pictograms (GHS US) :



Signal word (GHS US) :

Warning

Hazard statements (GHS US) :

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

Precautionary statements (GHS US) :

P261 - Avoid breathing mist, vapors, spray.
P264 - Wash hands thoroughly after handling.
P271 - Use only outdoors or in a well-ventilated area.
P280 - Wear protective gloves, protective clothing, eye protection, face protection.
P302+P352 - If on skin: Wash with plenty of water
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 CENTER, a doctor if you feel unwell
P403+P233 - Store in a well-ventilated place. Keep container tightly closed.
P405 - Store locked up.
P501 - Dispose of contents/container to hazardous or special waste collection point, in

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accordance with local, regional, national and/or international regulation
P362+P364 - Take off contaminated clothing and wash it before reuse.

2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	GHS US classification
2-hydroxyethyl methacrylate	(CAS-No.) 868-77-9	>=50 - <70	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317
Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate	(CAS-No.) 7534-94-3	>=20 - <25	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335
acrylic acid	(CAS-No.) 79-10-7	>=1 - <2.5	Flam. Liq. 3, H226 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation:vapour), H332 Skin Corr. 1A, H314 STOT SE 3, H335 Aquatic Acute 1, H400

Full text of hazard classes and H-statements : see section 16

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures general	: Call a poison center/doctor/physician if you feel unwell.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor/physician if you feel unwell.
First-aid measures after skin contact	: Take off contaminated clothing. Wash skin with plenty of water. If skin irritation or rash occurs: Get medical advice/attention.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: Rinse mouth out with water. Do not induce vomiting. Call a poison center/doctor/physician if you feel unwell.

4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects after inhalation	: May cause respiratory irritation.
Symptoms/effects after skin contact	: May cause an allergic skin reaction. Irritation.
Symptoms/effects after eye contact	: Eye irritation.

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide.
Unsuitable extinguishing media	: Strong water jet.

5.2. Specific hazards arising from the chemical

No additional information available

5.3. Special protective equipment and precautions for fire-fighters

Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
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Other information : Do not allow run-off from fire fighting to enter drains or water courses. Disposal must be done according to official regulations.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. Avoid breathing mist, vapors, spray. Avoid contact with skin and eyes.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid sub-soil penetration. Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Take up liquid spill into absorbent material. Take up mechanically (sweeping, shoveling) and collect in suitable container for disposal.

Other information : Disposal must be done according to official regulations.

6.4. Reference to other sections

Information for safe handling. See section 7. Concerning personal protective equipment to use, see section 8. For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Use only outdoors or in a well-ventilated area. Avoid breathing mist, vapors, spray. Avoid contact with skin and eyes. Wear personal protective equipment.

Hygiene measures : Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store locked up. Store in a well-ventilated place. Keep container tightly closed. Keep cool. Store in a dry place.

Storage temperature : < 60 °C

Heat-ignition : Keep away from heat and direct sunlight. Protect from light.

Information about storage in one common storage facility : Keep away from : Oxidizing substances, Peroxides. Keep away from food, drink and animal feeding stuffs.

Storage area : Protect from light. Protect from moisture. Keep away from heat and direct sunlight.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

acrylic acid (79-10-7)		
ACGIH	Local name	Acrylic acid
ACGIH	ACGIH TWA (ppm)	2 ppm
ACGIH	Remark (ACGIH)	TLV® Basis: URT irr. Notations: Skin; A4 (Not classifiable as a Human Carcinogen)
ACGIH	Regulatory reference	ACGIH 2019
2-hydroxyethyl methacrylate (868-77-9)		
Not applicable		
Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate (7534-94-3)		
Not applicable		

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8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.
Environmental exposure controls : Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Hand protection:

Chemically resistant protective gloves. EN 374. Nitrile rubber. Choosing the proper glove is a decision that depends not only on the type of material, but also on other quality features, which differ for each manufacturer. Please follow the instructions related to the permeability and the penetration time provided by the manufacturer. Gloves must be replaced after each use and whenever signs of wear or perforation appear

Eye protection:

Wear closed safety glasses. EN 166

Skin and body protection:

Wear suitable protective clothing. EN 340. EN 13034

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment. EN 143. Filter. A-P2. . Breathing equipment is only to be used in order to handle the residual risk of short term jobs if all other risk minimizing measures have been carried out e.g. retention and/or local exhaust

Other information:

Do not eat, drink or smoke when using this product. Avoid contact with skin and eyes. Always wash hands after handling the product.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Viscous.
Color	: colorless
Odor	: characteristic
Odor threshold	: No data available
pH	: No data available
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: Not applicable
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: No data available
Solubility	: Water: practically insoluble
Log Pow	: Not applicable
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: 20 mPa·s (20 °C)
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available

9.2. Other information

No additional information available

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SECTION 10: Stability and reactivity

10.1. Reactivity

May polymerize. Exothermic reaction. Hydrolysis.

10.2. Chemical stability

Stable under use and storage conditions as recommended in section 7.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Direct sunlight. Overheating. Air contact. Protect from light.

10.5. Incompatible materials

Strong oxidizing agent. alkalis. Amines.

10.6. Hazardous decomposition products

Hydrolysis. . Methanol.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (dermal) : Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (inhalation) : Not classified (Based on available data, the classification criteria are not met)

acrylic acid (79-10-7)	
LD50 oral rat	617 - 1405 mg/kg (gavage)
LD50 dermal rabbit	> 2000 mg/kg (20 % in H2O ; OECD TG 402)
ATE US (oral)	617 mg/kg body weight
ATE US (dermal)	1100 mg/kg body weight
ATE US (vapors)	11 mg/l/4h

2-hydroxyethyl methacrylate (868-77-9)	
LD50 oral rat	5564 mg/kg body weight
LD50 dermal rabbit	> 5000 mg/kg body weight (male)
ATE US (oral)	5564 mg/kg body weight

Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate (7534-94-3)	
LD50 oral rat	3.16 ml/kg
LD50 dermal rat	> 3000 mg/kg body weight
ATE US (oral)	3160 mg/kg body weight

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 : Not classified (Based on available data, the classification criteria are not met)
Carcinogenicity : Not classified (Based on available data, the classification criteria are not met)

acrylic acid (79-10-7)	
NOAEL (chronic,oral,animal/male,2 years)	>= 78 mg/kg body weight (OECD TG 451)
NOAEL (chronic,oral,animal/female,2 years)	>= 78 mg/kg body weight (OECD TG 451)
Additional information	NOAEL, Dermal, rat: 52 mg/kg bw (21 months)
IARC group	3 - Not classifiable

Reproductive toxicity : Not classified (Based on available data, the classification criteria are not met)
Specific target organ toxicity – single exposure : May cause respiratory irritation.

acrylic acid (79-10-7)	
Specific target organ toxicity – single exposure	May cause respiratory irritation.

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Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate (7534-94-3)	
Specific target organ toxicity – single exposure	May cause respiratory irritation.

Specific target organ toxicity – repeated exposure : Not classified (Based on available data, the classification criteria are not met)

acrylic acid (79-10-7)	
NOAEC (inhalation, rat, vapour, 90 days)	0.074 mg/l/6h/day (local effects ; OECD TG 413)
Additional information	NOAEL, oral, rat, female: 375 mg/kg bw/day (12 months, (OECD 452 method)) NOAEL, oral, rat, male: 40 mg/kg bw/day (12 months, (OECD 452 method)) LOAEL, oral, rat, male: 100 mg/kg bw/day (12 months, (OECD 452 method))

Aspiration hazard : Not classified
(Based on available data, the classification criteria are not met)

Viscosity, kinematic : No data available

Symptoms/effects after inhalation : May cause respiratory irritation.

Symptoms/effects after skin contact : May cause an allergic skin reaction. Irritation.

Symptoms/effects after eye contact : Eye irritation.

SECTION 12: Ecological information

12.1. Toxicity

acrylic acid (79-10-7)	
LC50 fish 1	27 mg/l (96 h, <i>Oncorhynchus mykiss</i> ; EPA OTS 797.1400)
EC50 Daphnia 1	95 mg/l (48 h, flow through; EPA OTS 797.1300)
ErC50 (algae)	0.13 mg/l (72 h, <i>Desmodesmus subspicatus</i> ; EU Method C.3)
NOEC (chronic)	19 mg/l (21 d, <i>Daphnia magna</i> , dyn. flow through; EPA OTS 797.1330)
Additional ecotox information	EC0, microorganisms: 100 mg/Kg (28 days, (OECD 217 method)) LC50, <i>Eisenia foetida</i> : > 1000 mg/kg dw soil (14 days, EU Method C.8)

2-hydroxyethyl methacrylate (868-77-9)	
LC50 fish 1	> 100 mg/l (96 h; <i>Oryzias latipes</i> ; (OECD 203 method))
EC50 Daphnia 1	380 mg/l (48 h; <i>Daphnia magna</i> ; (OECD 202 method))
ErC50 (algae)	836 mg/l (72 h; <i>Pseudokirchneriella subcapitata</i> ; (OECD 201 method))
NOEC chronic crustacea	24.1 mg/l (21 d; <i>Daphnia magna</i> ; (OECD 211 method))
NOEC chronic algae	400 mg/l (72 h; <i>Pseudokirchneriella subcapitata</i> ; (OECD 201 method))

Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate (7534-94-3)	
LC50 fish 1	1.79 mg/l (96 h; <i>Danio rerio</i> ; (OECD 203 method))
EC50 Daphnia 1	> 2.57 mg/l (48 h; <i>Daphnia magna</i> ; (OECD 202 method))
ErC50 (algae)	2.66 mg/l (96 h; <i>Pseudokirchneriella subcapitata</i> ; (OECD 201 method))
NOEC chronic crustacea	0.233 mg/l (21 d; <i>Daphnia magna</i> ; (OECD 211 method))
NOEC chronic algae	0.251 mg/l (72 h; <i>Pseudokirchneriella subcapitata</i> ; (OECD 201 method))

12.2. Persistence and degradability

QUIXX Repair Resin	
Persistence and degradability	The product has not been tested.

acrylic acid (79-10-7)	
Persistence and degradability	Readily biodegradable.
Biodegradation	80 - 90 % (28 d ; OECD 301 D)

2-hydroxyethyl methacrylate (868-77-9)	
Persistence and degradability	Readily biodegradable.
Biodegradation	92 - 100 % (14 d; (OECD 301C method))

Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate (7534-94-3)	
Persistence and degradability	Readily biodegradable.
Biodegradation	70 % (28 d; (OECD 310 method))

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12.3. Bioaccumulative potential

QUIXX Repair Resin	
Log Pow	Not applicable
Bioaccumulative potential	The product has not been tested.
acrylic acid (79-10-7)	
Bioconcentration factor (BCF REACH)	3.162 (log Pow = 0,35 , calc. BCF ; SRC BCFWIN v2.17)
Log Pow	0.46 (25 °C)
Log Kow	0.35 (HSDB 2006)
Bioaccumulative potential	Bioaccumulation unlikely.
2-hydroxyethyl methacrylate (868-77-9)	
Log Pow	0.42 (25 °C; (OECD 117 method))
Bioaccumulative potential	Based on the n-octanol/water partition coefficient accumulation in organisms is not expected.
Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate (7534-94-3)	
Log Pow	5.09 (OECD 117 method)
Bioaccumulative potential	Low bioaccumulation potential.

12.4. Mobility in soil

QUIXX Repair Resin	
Ecology - soil	The product has not been tested.
acrylic acid (79-10-7)	
Log Koc	0.78 - 2.14 (26 +/- 1 °C ; EPA OTS 796.2750)
Ecology - soil	Product adsorbs little onto the soil.
2-hydroxyethyl methacrylate (868-77-9)	
Ecology - soil	No additional information available.

12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Disposal methods

Waste treatment methods : Disposal must be done according to official regulations. Do not dispose of with domestic waste. Do not discharge into drains or the environment.

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

Not applicable

Transportation of Dangerous Goods

Not applicable

Transport by sea

Not applicable

Air transport

Not applicable

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SECTION 15: Regulatory information

15.1. US Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

Chemical(s) subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372.

acrylic acid, prop-2-enoic acid	CAS-No. 79-10-7	>=1 - <2.5%
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acrylic acid (79-10-7)	
Listed on EPA Hazardous Air Pollutant (HAPS)	
CERCLA RQ	5000 lb

15.2. International regulations

QUIXX Repair Resin
No additional information available

15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm.

SECTION 16: Other information

according to US OSHA Hazard Communication Standard (HCS 2012); 29 CFR Part 1910.1200

Revision date	: 05/22/2019
Data sources	: Information provided by the manufacturer. MSDSs of the suppliers. ECHA (European Chemicals Agency).
Department issuing data specification sheet:	: KFT Chemieservice GmbH Im Leuschnerpark, 3 64347 Griesheim Postfach 1451 64345 Griesheim Germany
	Phone: +49 6155-8981-400 Fax: +49 6155 8981-500 Safety Data Sheet Service: +49 6155 8981-522
Contact person	: Dr. Sandra Burkhard

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Full text of H-phrases:

H226	Flammable liquid and vapour
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
H319	Causes serious eye irritation
H332	Harmful if inhaled
H335	May cause respiratory irritation
H400	Very toxic to aquatic life

Abbreviations and acronyms:

ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC50	Median effective concentration
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
STP	Sewage treatment plant
TLM	Median Tolerance Limit
vPvB	Very Persistent and Very Bioaccumulative

KFT SDS US 11

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.