



Q-GLUE

1. Product/Company

Tradename: **Q-Glue**
Technical name: Anaerobic adhesive
Chemical name: methacrylate esters and composition

Manufacturer/supplier:



Marie-Curie-Straße 14-18
D-46446 Emmerich

Printed:
update: 05-08-2008

2. Composition/Information on ingredients:

CAS-No.	specification	EINECS-No.
27813-02-1	Hydroxypropylmethacrylate 1 - < 20%	248-666-3
868-77-9	2-Hydroxyethylmethacrylate 1 - < 20%	212-782-2
18358-13-9	Methacrylsäure-Ester > 10%	-
79-10-7	2-Propensäure < 2,5%	201-177-9
80-15-9	Cumene hydroperoxide 1%	201-254-7

3. The Main Hazard:

Irritating to eyes, respiratory system and skin, may cause sensitization by skin contact.

4. First Aid Procedures:

Product on skin:

Immediately wash with water and soap. Remove contaminated clothing and wash before re-use. In case irritation persists consult a doctor.

Product on eyes:

immediately flush the eye with plenty of water for at least 10 minutes, holding eye open. Obtain medical attention urgently.

Product ingested:

wash out mouth with water and give cold water or milk. Obtain medical attention.

Product inhaled:

expose to fresh air

5. Fire Protection:

Extinguishing media:

water spray jet, foam, dry chemical, carbon dioxide.

Special extinguishing procedures:

wear self-contained breathing apparatus. Formation of toxic gases.

Explosion and firing hazard:

keep containers cool with water spray.

6. Spillage:

Wear protective equipment, ensure adequate ventilation, do not convey to sewage. Adsorb spills using earth or sand and collect for disposal according to regulations.

7. Handling and storage:

Handling:

avoid contact with skin and eyes.
use in well ventilated area.

Storage precautions:

store below 28°C, away from direct sunlight and heat.

8. Exposure control/Personal protection

General protective measures:

Do not inhale vapours. Avoid contact with eyes and skin.

Store work clothing separately. Remove soiled or soaked clothing immediately. Follow the usual good standards of occupational hygiene. Use skin protective preparation as preventive skin protection.

Hand protection:

Butyl rubber gloves (0,7 mm), Breakthrough time 300 min (EN 374), other advisable gloves PE or nitrile.

Frequently in practice there are differing conditions. So the given considerations can only be an aid to orientation for the selection of a suitable chemical protection glove.

Particularly they do not compensate for suitability tests by the end user.

Gloves should be replaced regularly, especially after extended contact with the product. For each work-place a suitable glove type has to be selected.

Eye protection:

Tightly fitting goggles.

Exposure Limits (TWA)

868-77-9 **2-Hydroxyethylmethacrylate**

MAK – see Item 11

79-10-7 **2-Propensäure**

AGW – 30 mg/m³, 10 ml/m³
1 (I), DFG,Y

80-15-9 **Cumene hydroperoxide**

MAK – see Item Xa

9. Physical and chemical data:

Odour	: slightly pungent smell
Colour	: green
Change of physical state	: polymerisation over 100°C
Flash point (COC/DIN/ISO2592)	: more than 100°C
Explosion limits	: n.a.
Auto-ignition temperature	: more than 380°C
Vapour pressure (20°C) DIN51616	: <3 mbar
Viscosity (Brookfield) (25°C)	: 2500-3000 mPas
Water solubility (20°C)	: not soluble
pH-value	: 3-5
Density (20°C) DIN 51757	: 1,1 g/ml
VOC-Content	: 0,0 %

10. Stability and reactivity:

Product is stable at normal conditions of storage and use.

Conditions to avoid: heating over 100°C. –
Exposure to direct sunlight.

Materials to avoid: strong oxidising agents, metals/rust, strong acids.

Hazardous decomposition products:

burning produces carbon oxide and toxic fumes.

11. Health hazard information:

Acute Toxicity:

79-10-7	2-Propensäure	
Oral	LD 50	250 mg/kg (rat)
Dermal	LD50	280 mg/kg (rbt)

Skin:	Irritant
Eyes:	Irritant
Sensitization:	Possible by skin contact
Inhalation:	May irritate the respiratory system.

12. Environmental data:

Do not convey in water discharges.

Hazard class for water: WGK 1 (self-classification).
slightly hazardous for water

13. Disposal

In accordance with local regulations.

14. Transport information

Way	Class	Label
Road-Rail	ADR/RID :--	---
Sea	IMO/IMDG :--	---
Air	ICAO/IATA :--	---

Not classified. Labelling not required.

15. Labelling information

Labelling as EEC regulations in force:

Hazard symbol: St. Andrew's Cross – Xi – irritating
Contains: Hydroxypropyl- Hydroxyethylmethacrylate

Risk phrases:

R 36/37/38 Irritating to eyes, respiratory system and skin.
R 43 May cause sensitization by skin contact.

Safety phrases:

S 24/25 Avoid contact with skin and eyes.
S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S 28 After contact with skin, wash immediately with plenty of water and soap.
S 37/39 Wear suitable gloves and eye/face protection.

16. Additional information:

The information contained herein is based on our present state of knowledge and experience and according to EC Regulations and other related: 91/155(2001/58), 67/548(2001/59), 1999/45(2001/60), 91/689(2001/118) 89/542, ADR 23.072001, IMDG-Code 30 and. IATA-DRG 2002.

Relevant R-Phrases:

R 10 Flammable
R 20/21/22 Harmful by inhalation, in contact with skin and if swallowed.
R 21/22 Harmful in contact with skin and if swallowed.
R 23 Toxic by inhalation.
R 34 Causes burns.
R 35 Causes severe burns.
R 36 Irritating to eyes.
R 36/37/38 Irritating to eyes, respiratory system and skin.
R 36/38 Irritating to eyes and skin.
R 43 May cause sensitization by skin contact.
R 48/20/22 Harmful, danger of serious damage to health by prolonged exposure through inhalation and if swallowed.
R 50 Very toxic to aquatic organism.
R 51/53 Toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment.
R 7 May cause fire.

Q-Glue works in temperatures of -55 up to +150°C

Working time: 2-5 minutes
Functional time: 1-3 hours
Cure time: 2-4 hours
Shear strength DIN 54452: 25-35 N/mm²
Breakaway torque ISO 10964 35: -45 N.m
Prevail torque ISO 10964 55: -70 N.m
Maximum thread connections: M36/R1 ½"
Maximum gap fill: 0,20 mm
Shelf life: 1 year