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www.engineeredpolymers.net

An Amber Chemical Group Company
www.amberchemical.com

EP QS-UW B-Side

Quick Set Epoxy (Under Water) B-Side

Madison, WI 53716
608/661-2800

Revision Date: 12/01/2003
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SECTION 1: MATERIAL IDENTIFICATION

PRODUCT NAME: EP QS-UW B-Side

SECTION 2: INGREDIENTS

CASE No. Description:
25068-38-6 bisphenol A-(epichlorohydrin): epoxy resin

Identification number (s): No Longer Polymer (NLP)

BINECS Number: 500-033-5

BU Number: 603-074-00-8

SECTION 3: HAZARD IDENTIFICATION

Information pertaining to particular dangers for man and environment

R 36/38 Irritating to eyes and skin.

R 43 May cause sensitization by skin contact.

R 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

Contains epoxy constituents. See information supplied by the manufacturer.

Additional information:

The residue of epichlorohydrin corresponds to the recommendations of APME: Epoxy resins < 5 ppm (0,0005%)

SECTION 4: FIRST AID MEASURES

General information

Immediately remove any clothing soiled by the product.

After inhalation

Supply fresh air and call for a doctor. In case of unconsciousness, place patient stably in side position for transportation.

After skin contact

Immediately wash with water and soap and rinse thoroughly.

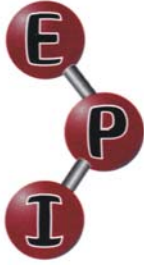
After eye contact

Rinse opened eye for several minuets under running water. Seek immediate medical advice.

After swallowing

Rinse out mouth and then drink plenty of water. Seek medical treatment.

SECTION 5: FIRE FIGHTING MEASURES



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Suitable extinguishing agents

CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

For safety reasons unsuitable extinguishing agents Water with full jet.

Special hazards caused by the material, its products of combustion or resulting gases:

In case of fire, the following can be released: Carbon monoxide (CO)
In certain fire conditions, traces of other toxic gases cannot be excluded, e.g.
Hydrogen chloride (HCl)

Protective equipment

Wear fully protective suit.
Wear self-contained respiratory protective device.

Additional information

Collect contaminated fire fighting water separately. It must not enter the sewage system.
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Person-related safety precautions:

Wear protective equipment. Keep unprotected persons away.

Measures for environmental protection:

Do not allow to enter sewers/surface or ground water.
Do not allow to penetrate the ground soil.

Measures for cleaning/collecting:

Absorb with liquid-binding material (sand, diatomate, acid binders, universal binders, sawdust.)
Dispose contaminated material as waste according to item 13.

SECTION 7: HANDLING AND STORAGE

Handling

Information for safe handling:

Ensure good ventilation/exhaustion at the workplace.

Information about protection against explosions and fires:

No special measures required.

Storage

Requirements to be met by storerooms and receptacles:

Prevent any seepage into the ground.

Information about storage in one common storage facility: Not required.

Further information about storage conditions:

Store in cool, dry conditions in well sealed receptacles.

SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

Additional information about design of technical systems:

No further data: See item 7

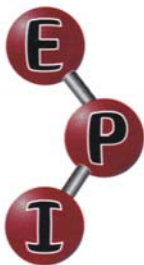
Personal protective equipment

General protective and hygienic measures

Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin.

Breathing equipment: Not necessary if room is well-ventilated.

Eye protection: Tightly sealed goggles.



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Body protection: Protective work clothing.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Form:	Viscous
Color:	Light yellow
Odor:	Weak, characteristic
Change in condition	
Boiling point/Boiling range	> 200°C (> 392°F) (DIN 53171)
Flash Point:	> 250°C (> 482°F) (ISO 2719)
Ignition temperature:	460°C (860°F) (DIN 53794)
Decomposition temperature:	> 200° (> 392°F) (DIN 53171)
Vapor pressure at 20°C (68°F):	< 0.1 mPa
Density at 20°C (68°F):	1.16 – 1.18 g/cm ³ (ISO 2811)
Solubility in / Miscibility with Water:	Soluble
Viscosity: Dynamic at 25°C (77°F):	8000-13000 mPa (ISO 9371)

SECTION 10: STABILITY AND REACTIVITY

Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

Dangerous reactions

May produce violent reactions with bases and numerous organic substances including alcohols and amines

Exothermic polymerization

Dangerous products of decomposition: Irritant gases/vapors

SECTION 11: TOXICOLOGICAL INFORMATION

Acute toxicity:

LD/LC50 values those are relevant for classification:

25068-38-6 bisphenol-A-epichlorohydrin resin, mw < 700

Oral LD50 11400 mg/kg (rat)

Dermal LD50 > 2000 mg/kg (rabbit)

Primary irritant effect:

On the skin: Irritant to skin and mucous membranes.

On the eye: Irritating effect.

Sensitization: sensitization possible through skin contact.

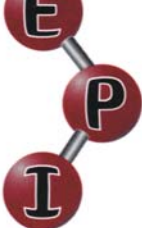
Additional toxicological information:

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

SECTION 12: ECOLOGICAL INFORMATION

Information about elimination (persistence and degradability):

Other information: The product is difficultly biodegradable.



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Ecotoxic effects:

Aquatic toxicity:

Type of test	Effective concentration	Method	Assessment
Rainbow trout	LC 50 (96h)	1.5 – 7.7 mg/l	
Daphnia magna	EC 50 (24h)	1.1 – 3.6 mg/l	
Green algae	EC 50 (96h)	220 mg/l	

(Bisphenol-A-epichlorohydrin resin. MG < 700)

General notes:

Do not allow product to reach ground water, water course or sewage system.

SECTION 13: DISPOSAL CONSIDERATIONS

Product:

Recommendation

Remove according to local authority recommendations, e.g. convey to a licensed incinerator.

Unclean packaging:

Recommendation:

Disposal must be made according to official regulations.

SECTION 14: TRANSPORT INFORMATION

DOT regulations:

Hazard class: N/A
Identification number: UN3082

Packing group:

Proper shipping name (technical Name): III
Epichlorohydrin-bisphenol A

Land transport ADR/RID (cross-border)

Item: Liquid, n.o.s. (epoxide derivatives)
Non Hazardous
Description of goods: 11c)
Environmentally hazardous substance,
Liquid, n.o.s. (epoxide derivatives)

Maritime transport IMDG:

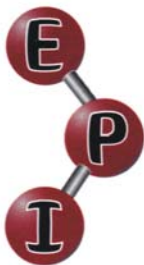
IMDG Class: N/A
Page: 9028
UN Number: 3082
Packaging group: III
EMS Number: None
MFAG: None
Marine pollutant: no
Proper shipping name: Liquid, n.o.s. (epoxide derivatives)

Air transport ICAO-TI and IATA-DGR:

ICAO/IATA Class: N/A
UN/ID Number: 3082
Packaging group: III
Proper shipping name: Liquid, n.o.s. (epoxide derivatives)

SECTION 15: REGULATIONS

Markings according to EU guidelines:



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The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials

Code letter and hazard designation of product:

Xi Irritant
N Dangerous for the environment

Risk phrases:

36/38 Irritating to eyes and skin
43 May cause sensitization by skin contact.
51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety phrases:

28 After contact with skin, wash immediately with plenty of soap and water
37/39 Wear Suitable gloves and eye/face protection.
61 Avoid release to the environment. Refer to special instructions/
Safety data sheets

Special labeling of certain preparations:

Contains epoxy constituents. See information supplied by the manufacturer.

This information herein is given in good faith, but no warranty, expressed or implied, is made.