

MATERIAL SAFETY DATA SHEET [91/155/EEC]

Version V 1.00 dated 13.09.2005

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1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product No.: 80002

1.1. **BRANDNAME:** VDW 800 PAVING JOINT MORTAR COMPONENT A

1.2 Use of the Substance/Preparation

Reactive mortar for building industry.

1.3 **Supplier:** GESELLSCHAFT FÜR TECHNISCHE KUNSTSTOFFE mbH

Address: KOTTENFORSTWEG

D-53359 RHEINBACH

Phone-No.: +49-(0)2225-9157-0

Telefax-No.: +49-(0)2225-915760

Department for Information: Umwelt und Produktsicherheit

Emergency Call:

Phone-No.:

Telefax-No.:

MSDS-History: Version V 1.00 dated 13.09.2005

replaces Version

dated

2. INFORMATION ON COMPOSITION

Preparation based on quartz sand.

2.1 The Product Contains the Following Relevant Components:

(1) polyamino amide

2.2 Characterization of Components listed in Section 2.1 [for Exposure Limits see Section 8.2]

CAS	EEC/ELINCS	Index No.	Warnings	R-Phrases
(1)			Xi	36/37/38-43

2.3 CMT-Categorization of Components Listed in Section 2.1

EEC Category				
Carc	Muta	RF	RE	EEC Guideline
(1)				--

Information given herein is to the best of our knowledge and is only related to the product as delivered in order to give a complete review of safety aspects accurate as of the date indicated. All data given are never meant to guarantee product properties. It is the sole responsibility of the user to take all precautions required in handling the product.

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BRANDNAME: VDW 800 PAVING JOINT MORTAR COMPONENT A

Supplier: GESELLSCHAFT FÜR TECHNISCHE KUNSTSTOFFE mbH

Address: KOTTENFORSTWEG D-53359 RHEINBACH

3. HAZARD IDENTIFICATION

Prolonged or repeated contact with the product may weakly irritate the skin and the eyes.

The product does not imply any particular fire or explosion hazard.

The product presents no particular risk to the environment, provided the disposal requirements (see section 13) and national or local regulations are complied with.

In Germany the product is classified weak water-hazardous [WGK 1].

4. FIRST AID MEASURES

4.1 General Instructions

General recommendations are not necessary.

4.2 In Case of Eye Contact

After separating the eyelids immediately flush eyes thoroughly and lasting with plenty of water. In case eye irritation persists, consult an oculist.

4.3 In Case of Skin Contact

Take off polluted clothing and shoes. Wash affected skin thoroughly and lasting with plenty of soap and water. In case skin irritation persists, seek medical aid. Hand out to the physician the container label or this safety data sheet.

4.4 In Case of Ingestion

In case inconvenience persists, seek medical aid.

4.5 In Case of Inhalation

Guide affected person to fresh air. In case inconvenience persists, seek medical aid.

4.6 Notes to the Physician

There is no specific information available about the product. Treat affected person according to symptoms developing.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media:

All kind of extinguishers is suitable.

Harmonise fire-fighting measures with the primary cause of fire and the environmental surroundings.

Not to be Used for Safety Reasons:

none known.

Specific Exposure Hazards Arising from the Substance or its Combustion Products:

The product is not combustible.

During the thermal decomposition/combustion of the product harmful and irritating vapours/gases are released.

Specific Protective Equipment and Measures Required for Fire-Fighting:

In case of a fire wear a self-containing breathing apparatus and OSHA/MSHA-approved clothing. Collect contaminated extinguishing-water if any possible and dispose off (see also section 13).

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Supplier: GESELLSCHAFT FÜR TECHNISCHE KUNSTSTOFFE mbH

Address: KOTTENFORSTWEG D-53359 RHEINBACH

6. ACCIDENTAL RELEASE MEASURES

Wear protective clothing (see section 8.3). Close all drains. Avoiding any dust formation take up spilled solid by mechanical means into labelled and resistant containers. Finally dispose off product as pointed out in section 13. Thoroughly wash ground using plenty of water.

7. HANDLING AND STORAGE

7.1 Handling

Use product only in well ventilated areas/workplaces. Comply with the instructions for use.

7.2 Storage

Store product only in tightly closed original containers in a cool and dry place protected from frost. Use product very soon once original packaging is opened. Avoid any dust formation during refilling processes.

7.3 Specific Uses

no data available - refer to technical data sheet.

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Address: KOTTENFORSTWEG D-53359 RHEINBACH

8. EXPOSURE CONTROL AND PERSONAL PROTECTIVE EQUIPMENT

8.1 Components with an Exposure Limitation

a) Exposure Limits Related to the Product

Origin	ml/m ³	mg/m ³	Cat.	Refer to	Notes	Name
MAK		0.15			determined as alveol penetrating aerosol share	quartz (SiO ₂)
-						

b) Exposure Limits of Components as Listed in Section 2.1

CAS	Origin	ml/m ³	mg/m ³	Cat.	Refer to	Notes
(1)	MAK	--	--	--	--	--

8.2 Environmental Exposure Controls

no data available.

8.3 Personal Hygiene and Personal Protective Equipment

Respect the general regulations of industrial working hygiene as stated by the responsible professional association. Do not breathe product dusts. Separate work clothing from casual dress.

Respiratory: Respiratory protective device EN 3181 with particle filter and cartridge P1 only in case of dust formation.
Respect the national time-limitations for the use of respiratory protective devices.

Eye: protective goggles with side-protection.

Hand: impervious gloves [protection index 3, > 60 min breakthrough time according to EN 374] type of glove material: e.g.: butyl rubber, viton, nitrilo rubber.

Body: impervious working clothes.

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Supplier: GESELLSCHAFT FÜR TECHNISCHE KUNSTSTOFFE mbH

Address: KOTTENFORSTWEG D-53359 RHEINBACH

9. PHYSICAL AND CHEMICAL PROPERTIES

State: at 20 °C: solid

Colour: varicoloured

Odour: amine-like

9.1 Change in Physical State

no data available

°C

°C

°C

9.2 Density

(20 °C)

no data available **g/cm³**

(°C)

g/cm³

Bulk Density

(20 °C)

1600 - 1800 **kg/m³**

9.3 Vapour Pressure

(20 °C)

neglectable **hPa**

(°C)

hPa

9.4 Viscosity

(20 °C) not applicable

(°C)

9.5 Water Solubility

(20 °C)

insoluble **g/l**

Fat Solubility insoluble in the commonly used organic solvents

9.6 pH-Value

(20 °C) not applicable

(at **g/l H₂O**)

9.7 Flashpoint

not applicable

°C

9.8 Autoflammability

not applicable

°C

9.9 Exposure Limits

lower: -

upper: -

not applicable

The product is a non-oxidizing material according to the actual EEC criteria.

9.10 Partition Coefficient n-Octanol/Water [log Pow]:

not applicable

9.11 Further Data

10. STABILITY AND REACTIVITY

Conditions to Avoid:

The product is stable if used according to given applications.

Products to Avoid:

none, if used as indicated.

Hazardous Decomposition Products:

During the thermal decomposition of the product harmful and irritating vapours/gases are released.

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Supplier: GESELLSCHAFT FÜR TECHNISCHE KUNSTSTOFFE mbH

Address: KOTTENFORSTWEG D-53359 RHEINBACH

11. TOXICOLOGICAL INFORMATION

Prolonged or repeated contact with the product may weakly irritate the skin and the eyes. [Lit 1]

12. ECOLOGICAL INFORMATION

The product is practically insoluble in water. Due to its almost insolubility in water a toxic effect of the product on aquatic organisms is very unlikely to occur. [Lit 1]

Do not release the product in the environment. Decant and purify polluted waste water before its release into the drains.

13. DISPOSAL CONSIDERATIONS

Dispose of solid residues at a licensed site. Separate the different packaging materials and dispose of separately.

Since beginning of 1999 the Waste-Catalogue of the European Community is in force. As it is designed process-specific, different waste keys may apply to one specific chemical. A unique classification of a specific chemical by the producer is therefore not possible.

[Recommendations]:

EEC Waste Code:

08 04 00 wastes from MFSU of adhesives and sealants (including waterproofing products)

EEC Waste Code:

08 04 10 waste adhesives and sealants other than those mentioned in 08 04 09

EEC Waste Code:

08 04 99 wastes not otherwise specified

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Supplier: GESELLSCHAFT FÜR TECHNISCHE KUNSTSTOFFE mbH

Address: KOTTENFORSTWEG D-53359 RHEINBACH

14. TRANSPORT INFORMATION

The product described is not concerned by the actual international guidelines for the transport of dangerous substances.

14.1 Transport Regulations Road

UN-No.: 0000	RID/ADR: -	Pack-Group: -
Danger-Code: -	Label: -	Limited. Quantity: -
Shipping Name: no dangerous good		
Hazard caused by:		

14.2 Transport Regulations Sea

UN-No.: 0000	IMO/IMDG-Class: -	Limited Quantity: -
EMS-No.: -	MFAG-No.: -	MarPol: - ADNR: -
Pack-Group: -	Label: -	
Shipping Name: not restricted		
Hazard caused by:		

14.3 Transport Regulations Air

UN-No.: 0000	ICAO/IATA-Class: -	Limited. Quantity: -
Label: -		Pack-Group: -
Passenger Aircraft/Quantity: -	Cargo Aircraft/Quantity: -	
Shipping Name: not restricted		
Hazard caused by:		

15.1 REGULATORY INFORMATION

Warning Sign(s):

The produced described is not concerned by the relevant EEC-Guidelines (67/548 EEC for substances and 88/379/EC for chemical preparations) in their actual versions at the date of safety data sheet preparation.

R-Phrase(s): none

S-Phrase(s): none

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Supplier: GESELLSCHAFT FÜR TECHNISCHE KUNSTSTOFFE mbH

Address: KOTTENFORSTWEG D-53359 RHEINBACH

Product Classification

Water-Hazard Classification: WGK 1 [Lit 1]

The product needs additionally to be labelled with:

Contains polyamino amide. May produce an allergic reaction. Safety data sheet available for professional user on request.

ADDITIONAL INFORMATION

16.1 References

[Lit 1]: Unpublished producer results.

16.2 The following Sections of the MSDS compared to Version dated has been revised:

New MSDS.

16.3 R Phrases Referring to Headings 2 and 3 :

R36/37/38 - Irritating to eyes, respiratory system and skin.

R43 - May cause sensitization by skin contact.

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1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product No.: 80001

1.1. **BRANDNAME:** VDW 800 PAVING JOINT MORTAR COMPONENT B

1.2 Use of the Substance/Preparation

Reactive mortar for building industry.

1.3 **Supplier:** GESELLSCHAFT FÜR TECHNISCHE KUNSTSTOFFE mbH
Address: KOTTENFORSTWEG D-53359 RHEINBACH
Phone-No.: +49-(0)2225-9157-0 **Telefax-No.:** +49-(0)2225-915760
Department for Information: Umwelt und Produktsicherheit

Emergency Call:

Phone-No.:

Telefax-No.:

MSDS-History: Version V 1.00 dated 13.09.2005

replaces Version

dated

2. INFORMATION ON COMPOSITION

Preparation based on epoxy resins and several additive components.

2.1 The Product Contains the Following Relevant Components:

- (1) reaction products of bisphenol-A-epichlorohydrine resins (MW <= 700) (> 50%)
- (2) oxirane, mono[(C12-14-alkyloxy)methyl] derivs. (< 5%)
- (3) 1,6-bis(2,3-epoxypropoxy)hexane (< 15%)

2.2 Characterization of Components listed in Section 2.1 [for Exposure Limits see Section 8.2]

CAS	EEC/ELINCS	Index No.	Warnings	R-Phrases
(1) 25068-38-6	500-033-5	603-074-00-8	Xi, N	36/38-43-51/53
(2) 68609-97-2	271-846-8	603-103-00-4	Xi	38-43
(3) 16096-31-4	240-260-4		Xi	36/38-43

2.3 CMT-Categorization of Components Listed in Section 2.1

EEC Category				
Carc	Muta	RF	RE	EEC Guideline
(1)				--
(2)				--
(3)				--

Information given herein is to the best of our knowledge and is only related to the product as delivered in order to give a complete review of safety aspects accurate as of the date indicated. All data given are never meant to guarantee product properties. It is the sole responsibility of the user to take all precautions required in handling the product.

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Supplier: GESELLSCHAFT FÜR TECHNISCHE KUNSTSTOFFE mbH

Address: KOTTENFORSTWEG D-53359 RHEINBACH

3. HAZARD IDENTIFICATION

The product is irritating to the eyes and the skin. The product may cause sensitisation by skin contact.

The product is combustible. The product may form flammable/explosive vapour-air mixtures.

Exothermic reactions may occur on contact with certain chemicals (Refer to the list of incompatible materials in section 10: "Stability-Reactivity").

The product is toxic to aquatic organisms and may cause long-term adverse effects in the aquatic environment.

In Germany the product is classified water-hazardous [WGK 2].

4. FIRST AID MEASURES

4.1 General Instructions

General recommendations are not necessary.

4.2 In Case of Eye Contact

After separating the eyelids immediately flush eyes thoroughly and lasting with plenty of water. Immediately consult an oculist.

4.3 In Case of Skin Contact

Immediately take off polluted clothing and shoes. Immediately wash affected skin thoroughly and lasting with plenty of soap and water. In case skin irritation persists, seek medical aid. Hand out to the physician the container label or this safety data sheet.

4.4 In Case of Ingestion

In case affected person is fully conscious, rinse out the mouth with plenty of water and administer 2 glasses of water. Guide affected person to medical treatment or call for medical assistance. Hand out to the physician the container label or this safety data sheet.

4.5 In Case of Inhalation

Guide affected person to fresh air. In case inconvenience persists, seek medical aid.

4.6 Notes to the Physician

There is no specific information available about the product. Treat affected person according to symptoms developing.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media:

carbon dioxide, powder and foam extinguisher, water spray.

Not to be Used for Safety Reasons:

water jet.

Specific Exposure Hazards Arising from the Substance or its Combustion Products:

The product is combustible. Formation of carbon monoxide and carbon dioxide during the combustion of the product. During the thermal decomposition/combustion of the product toxic and irritating vapours/gases are released. Heating will cause a pressure rise in closed drums - risk of bursting.

Specific Protective Equipment and Measures Required for Fire-Fighting:

Cool containers exposed to the fire with water spray. In case of a fire wear a self-containing breathing apparatus and OSHA/MSHA-approved clothing. Collect contaminated extinguishing-water if any possible and dispose off (see also section 13).

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Supplier: GESELLSCHAFT FÜR TECHNISCHE KUNSTSTOFFE mbH

Address: KOTTENFORSTWEG D-53359 RHEINBACH

6. ACCIDENTAL RELEASE MEASURES

Wear protective clothing (see section 8.3). Close all drains. Turn leaking containers leak-side up to prevent any further the escape of liquid. In case of a large spillage, contain the spillage by bunding. Observing the relevant guidelines of safety mop up large amounts of liquid into labelled and resistant containers. Cover liquid residues using an inert chemical binder and take up spill into labelled and resistant containers. Finally dispose off product as pointed out in section 13. Thoroughly wash ground using plenty of water and an appropriate self-emulsifying solvent.

7. HANDLING AND STORAGE

7.1 Handling

Use product only in well ventilated areas/workplaces. Avoid any direct contact with the product. Never mix product with incompatible substances (see section 10). Comply with the instructions for use.

7.2 Storage

Store product only in tightly closed original containers in a cool and dry place protected from frost. Take all precautionary storage measures to avoid effectively any contamination of drains or water circuits in case of an accidental spill of the product. Do not store product close to incompatible substances (see section 10). Use product very soon once original packaging is opened. Avoid spills and splashes during refilling processes.

7.3 Specific Uses

no data available - refer to technical data sheet.

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Supplier: GESELLSCHAFT FÜR TECHNISCHE KUNSTSTOFFE mbH

Address: KOTTENFORSTWEG D-53359 RHEINBACH

8. EXPOSURE CONTROL AND PERSONAL PROTECTIVE EQUIPMENT

8.1 Components with an Exposure Limitation

a) Exposure Limits Related to the Product

Origin	ml/m ³	mg/m ³	Cat.	Refer to	Notes	Name
-						
-						

The product under question does not contain any component imposed with an occupational exposure limit.

b) Exposure Limits of Components as Listed in Section 2.1

CAS	Origin	ml/m ³	mg/m ³	Cat.	Refer to	Notes
(1) 25068-38-6	MAK	--	--	--	--	
(2) 68609-97-2	MAK	--	--	--	--	
(3) 16096-31-4	MAK	--	--	--	--	

8.2 Environmental Exposure Controls

no data available.

8.3 Personal Hygiene and Personal Protective Equipment

Respect the general regulations of industrial working hygiene as stated by the responsible professional association. Strictly avoid any direct contact with the product. Do not breathe product vapours. Wash your hands after every single use of the product. Immediately take off polluted clothing and thoroughly clean before reuse. Separate work clothing from casual dress.

Respiratory: Respiratory protective device EN 3181 with gas filter and cartridge A3
only in case of vapour or spray formation.
Respect the national time-limitations for the use of respiratory protective devices.

Eye: protective goggles with side-protection.

Hand: impervious gloves [protection index 3, > 60 min breakthrough time according to EN 374] type of glove material: e.g.: nitrilo rubber (0.4 mm), fluoro rubber (0.5 mm).

Body: impervious working clothes.

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Supplier: GESELLSCHAFT FÜR TECHNISCHE KUNSTSTOFFE mbH

Address: KOTTENFORSTWEG D-53359 RHEINBACH

9. PHYSICAL AND CHEMICAL PROPERTIES

State: at 20 °C: liquid

Colour: colourless

Odour: characteristic

9.1 Change in Physical State

no data available

°C

°C

°C

9.2 Density

(20 °C)

approx. 1.11 - 1.15 g/cm³

(°C)

g/cm³

Bulk Density

(20 °C)

not applicable kg/m³

9.3 Vapour Pressure

(20 °C)

no data available hPa

(20 °C)

hPa

9.4 Viscosity

(20 °C)

1000 - 1200 mPa s

(°C)

9.5 Water Solubility

(20 °C)

practically insoluble g/l

Fat Solubility partly soluble in the commonly used organic solvents

9.6 pH-Value

(20 °C)

not applicable

(at

g/l H₂O)

9.7 Flashpoint

in closed cup

> 100 °C

9.8 Autoflammability

not applicable

°C

9.9 Exposure Limits

lower: -

upper: -

no data available

The product is a non-oxidizing material according to the actual EEC criteria.

9.10 Partition Coefficient n-Octanol/Water [log Pow]:

not applicable

9.11 Further Data

10. STABILITY AND REACTIVITY

Conditions to Avoid:

The product is stable if used according to given applications.

Products to Avoid:

strong oxidizers and reducing agents (reaction).

Hazardous Decomposition Products:

During the thermal decomposition of the product toxic and irritating vapours/gases are released.

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Supplier: GESELLSCHAFT FÜR TECHNISCHE KUNSTSTOFFE mbH

Address: KOTTENFORSTWEG D-53359 RHEINBACH

11. TOXICOLOGICAL INFORMATION

The single components of the formulation imply only a very low toxicological potential by oral and dermal route. The product is irritating to the eyes and the skin. The product may cause sensitisation by skin contact. [Lit 1]

12. ECOLOGICAL INFORMATION

The product is practically insoluble in water. The product is toxic to aquatic organisms and may cause long-term adverse effects in the aquatic environment. [Lit 1]

Do not release the product in the environment. Decant and purify polluted waste water before its release into the drains.

13. DISPOSAL CONSIDERATIONS

Dissolve product in a flammable solvent and incinerate mixture at an authorised site. Separate the different packaging materials and dispose of separately.

Since beginning of 1999 the Waste-Catalogue of the European Community is in force. As it is designed process-specific, different waste keys may apply to one specific chemical. A unique classification of a specific chemical by the producer is therefore not possible.

[Recommendations]:

EEC Waste Code:

08 04 09 waste adhesives and sealants containing organic solvents or other dangerous substances

EEC Waste Code:

08 04 13 aqueous sludges containing adhesives or sealants containing organic solvents or other dangerous subst

EEC Waste Code:

08 04 99 wastes not otherwise specified

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Supplier: GESELLSCHAFT FÜR TECHNISCHE KUNSTSTOFFE mbH

Address: KOTTENFORSTWEG D-53359 RHEINBACH

14. TRANSPORT INFORMATION

*) marine pollutant: no data available

14.1 Transport Regulations Road

UN-No.: 3082	RID/ADR: 9	Pack-Group: III
Danger-Code: 90	Label: 9	Limited. Quantity: LQ28
Shipping Name: Environmentally hazardous substance, liquid, n.o.s.		
Hazard caused by: reaction products of bisphenol-A-epichlorohydrine resins (MW < = 700)		

14.2 Transport Regulations Sea

UN-No.: 3082	IMO/IMDG-Class: 9	Limited Quantity: 5 L
EMS-No.: F-A, S-F	MFAG-No.: 0	MarPol: * ADNR: 9
Pack-Group: III	Label: -	
Shipping Name: Environmentally hazardous substance, liquid, n.o.s.		
Hazard caused by: reaction products of bisphenol-A-epichlorohydrine resins (MW < = 700)		

14.3 Transport Regulations Air

UN-No.: 3082	ICAO/IATA-Class: 9	Limited. Quantity: 30 kg G
Label: Miscellaneous		Pack-Group: III
Passenger Aircraft/Quantity: Frei	Cargo Aircraft/Quantity: Frei	
Shipping Name: Environmentally hazardous substance, liquid, n.o.s.		
Hazard caused by: reaction products of bisphenol-A-epichlorohydrine resins (MW < = 700)		

15.1 REGULATORY INFORMATION

contains:

reaction products of bisphenol-A-epichlorohydrine resins (MW < = 700), 1,6-bis(2,3-epoxypropoxy)hexane

Warning Sign(s):

Xi (irritant), N (dangerous for the environment)

R-Phrase(s): 36/38-43-51/53

Irritating to eyes and skin.

May cause sensitization by skin contact.

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S-Phrase(s): 2-28-37/39-61

Keep out of the reach of children.

After contact with skin, wash immediately with plenty of water.

Wear suitable gloves and eye/face protection.

Avoid release to the environment. Refer to special instructions/safety data sheets.

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Supplier: GESELLSCHAFT FÜR TECHNISCHE KUNSTSTOFFE mbH

Address: KOTTENFORSTWEG D-53359 RHEINBACH

Product Classification

Water-Hazard Classification: WGK 2 [Lit 1]

The product needs additionally to be labelled with:

Contains epoxy compounds: Respect producer's instructions.

ADDITIONAL INFORMATION

16.1 References

[Lit 1]: Unpublished producer results.

16.2 The following Sections of the MSDS compared to Version dated has been revised:

New MSDS.

16.3 R Phrases Referring to Headings 2 and 3 :

R36/38 - Irritating to eyes and skin.

R43 - May cause sensitization by skin contact.

R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.