

**Safety Data Sheet**

according to UK REACH Regulation

vdw 800 Pflasterfugenmörtel Komponente B

Revision date:

Product code: 275

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SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

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

Jointfiller for pavement surfaces

Uses advised against

No information available.

1.3. Details of the supplier of the safety data sheet

Company name:	Gesellschaft für technische Kunststoffe mbH
Street:	Kottenforstweg 3
Place:	D-53359 Rheinbach-Flerzheim
Telephone:	+49(0)2225 9157-0
e-mail:	mail@gftk-info.de
Contact person:	Labor
Internet:	www.gftk-info.de

Telephone: +49(0)2225 9157-27

1.4. Emergency telephone number:

Informationszentrale gegen Vergiftungen, 53113 Bonn, Fon: +49.(0)228/19240
Fax: +49.(0)228/287-33314

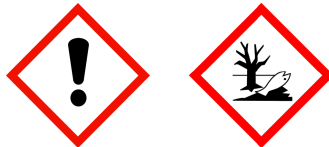
SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****GB CLP Regulation**

Skin Irrit. 2; H315
Eye Irrit. 2; H319
Skin Sens. 1; H317
Aquatic Chronic 2; H411

Full text of hazard statements: see SECTION 16.

2.2. Label elements**GB CLP Regulation****Hazard components for labelling**

Bis [4- (2,3-Epoxypropoxy) phenyl] propan
Reaction products of hexane-1,6-diol with 2-(chloromethyl)oxirane
Phenol, methylstyrenated
oxirane, mono[(C12-14-alkyloxy)methyl] derivs.

Signal word: Warning**Pictograms:****Hazard statements**

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H411	Toxic to aquatic life with long lasting effects.

Precautionary statements

P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
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P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.
P391	Collect spillage.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P501	Disposal of contents/container according to regional / national / international regulations.

2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients**3.2. Mixtures****Chemical characterization**

Contains epoxy constituents. See information supplied by the manufacturer.

Hazardous components

CAS No	Chemical name	Quantity		
	EC No	Index No	REACH No	
	Classification (GB CLP Regulation)			
1675-54-3	Bis [4- (2,3-Epoxypropoxy) phenyl] propan	70 - < 75 %		
	216-823-5	603-073-00-2	01-2119456619-26	
	Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1, Aquatic Chronic 2; H315 H319 H317 H411			
933999-84-9	Reaction products of hexane-1,6-diol with 2-(chloromethyl)oxirane	10 - < 15 %		
	618-939-5		01-2119463471-41	
	Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1A, Aquatic Chronic 3; H315 H319 H317 H412			
68512-30-1	Phenol, methylstyrenated	10 - < 15 %		
	270-966-8		01-2119555274-38	
	Skin Irrit. 2, Skin Sens. 1B, Aquatic Chronic 3; H315 H317 H412			
68609-97-2	oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	1 - < 5 %		
	271-846-8	603-103-00-4	01-2119485289-22	
	Skin Irrit. 2, Skin Sens. 1; H315 H317			

Full text of H and EUH statements: see section 16.

Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
		Specific Conc. Limits, M-factors and ATE	
1675-54-3	216-823-5	Bis [4- (2,3-Epoxypropoxy) phenyl] propan	70 - < 75 %
		dermal: LD50 = 23000 mg/kg; oral: LD50 = 15000 mg/kg Skin Irrit. 2; H315: >= 5 - 100 Eye Irrit. 2; H319: >= 5 - 100	
933999-84-9	618-939-5	Reaction products of hexane-1,6-diol with 2-(chloromethyl)oxirane	10 - < 15 %
		dermal: LD50 = >2000 mg/kg; oral: LD50 = 3741 mg/kg	
68512-30-1	270-966-8	Phenol, methylstyrenated	10 - < 15 %
		dermal: LD50 = >2000 mg/kg; oral: LD50 = >2000 mg/kg	
68609-97-2	271-846-8	oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	1 - < 5 %
		oral: LD50 = 26800 mg/kg	

SECTION 4: First aid measures**4.1. Description of first aid measures**

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After inhalation

Provide fresh air. When in doubt or if symptoms are observed, get medical advice.

After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing and wash it before reuse. Medical treatment necessary.

After contact with eyes

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

After ingestion

Rinse mouth immediately and drink 1 glass of water.

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

No information available.

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

Treat symptomatically.

SECTION 5: Firefighting measures**5.1. Extinguishing media****Suitable extinguishing media**

Co-ordinate fire-fighting measures to the fire surroundings.

5.2. Special hazards arising from the substance or mixture

Non-flammable.

5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing. Full protection suit.

Additional information

Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures****General advice**

Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment.

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up**Other information**

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

SECTION 7: Handling and storage**7.1. Precautions for safe handling****Advice on safe handling**

No special measures are necessary.

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Advice on protection against fire and explosion

No special fire protection measures are necessary.

Advice on general occupational hygiene

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme.

Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat, drink, smoke, sniff.

7.2. Conditions for safe storage, including any incompatibilities**Requirements for storage rooms and vessels**

Keep container tightly closed.

Hints on joint storage

No special measures are necessary.

7.3. Specific end use(s)

Jointfiller for pavement surfaces

SECTION 8: Exposure controls/personal protection**8.1. Control parameters****DNEL/DMEL values**

CAS No	Substance	Exposure route	Effect	Value
1675-54-3	Bis [4- (2,3-Epoxypropoxy) phenyl] propan			
Worker DNEL,		dermal		8,33 mg/kg bw/day
Worker DNEL,		inhalation		12,25 mg/m ³
933999-84-9	Reaction products of hexane-1,6-diol with 2-(chloromethyl)oxirane			
Worker DNEL, acute		dermal	local	0,0226 mg/cm ²
Worker DNEL, long-term		dermal	systemic	2,8 mg/kg bw/day
Worker DNEL, long-term		inhalation	systemic	0,44 mg/m ³
Consumer DNEL, acute		dermal	systemic	1,7 mg/kg bw/day
Consumer DNEL, acute		inhalation	systemic	2,9 mg/m ³
Consumer DNEL, acute		oral	systemic	0,83 mg/kg bw/day
Consumer DNEL, long-term		dermal	systemic	1,7 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	0,89 mg/m ³
Consumer DNEL, long-term		oral	systemic	0,83 mg/kg bw/day
68512-30-1	Phenol, methylstyrenated			
Consumer DNEL, long-term		oral		0,2 mg/kg bw/day
Consumer DNEL, long-term		dermal		1,7 mg/kg bw/day
Worker DNEL, long-term		dermal		3,5 mg/kg bw/day
Consumer DNEL, long-term		inhalation		0,35 mg/m ³
Worker DNEL, long-term		inhalation		1,4 mg/m ³

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PNEC values

CAS No	Substance	Value
Environmental compartment		
1675-54-3	Bis [4- (2,3-Epoxypropoxy) phenyl] propan	
Freshwater		0,006 mg/l
Marine water		0,0006 mg/l
933999-84-9	Reaction products of hexane-1,6-diol with 2-(chloromethyl)oxirane	
Freshwater		0,0115 mg/l
Marine water		0,00115 mg/l
Freshwater sediment		0,283 mg/kg
Marine sediment		0,0283 mg/kg
Soil		0,223 mg/kg
68512-30-1	Phenol, methylstyrenated	
Freshwater		0,014 mg/l
Freshwater (intermittent releases)		0,14 mg/l
Marine water		0,0014 mg/l
Freshwater sediment		1064 mg/kg
Marine sediment		106 mg/kg
Soil		212 mg/kg
68609-97-2	oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	
Freshwater		0,0072 mg/l
Marine water		0,00072 mg/l
Freshwater sediment		66,77 mg/kg
Marine sediment		6,677 mg/kg
Soil		80,12 mg/kg

8.2. Exposure controls**Individual protection measures, such as personal protective equipment****Eye/face protection**

Suitable eye protection: goggles.

Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Skin protection

Use of protective clothing.

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

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SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Physical state: liquid
Colour: colourless
Odour: like: resin

Changes in the physical state

Melting point/freezing point: not determined
Boiling point or initial boiling point and boiling range: >200 °C
Flash point: >93 °C

Flammability

Solid/liquid: not applicable
Gas: not applicable

Explosive properties

The product is not: Explosive.

Lower explosion limits: not determined
Upper explosion limits: not determined
Auto-ignition temperature: >385 °C

Self-ignition temperature

Solid: not applicable
Gas: not applicable

Decomposition temperature: not determined

pH-Value (at 20 °C): 6

Viscosity / dynamic: (at 20 °C) 1000 mPa·s

Water solubility: 0 g/L

Solubility in other solvents

not determined

Partition coefficient n-octanol/water: not determined

Vapour pressure: (at 20 °C) 0,01 hPa

Density (at 20 °C): 1,12 g/cm³

Relative vapour density: not determined

9.2. Other information**Information with regard to physical hazard classes**

Oxidizing properties
Not oxidising.

Other safety characteristics

Solid content: not determined
Evaporation rate: not determined

Further Information**SECTION 10: Stability and reactivity****10.1. Reactivity**

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No hazardous reaction when handled and stored according to provisions.

10.2. Chemical stability

Unstabilized product can polymerize spontaneously.

10.3. Possibility of hazardous reactions

Polymerization with heat evolution may occur in the presence of radical forming substances (e.g. peroxides), reducing substances, and/or heavy metal ions.

10.4. Conditions to avoid

none

10.5. Incompatible materials

Keep away from: Radical former, Peroxides, Reducing agent

10.6. Hazardous decomposition products

No known hazardous decomposition products.

SECTION 11: Toxicological information**11.1. Information on hazard classes as defined in GB CLP Regulation****Acute toxicity**

Based on available data, the classification criteria are not met.

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
1675-54-3	Bis [4- (2,3-Epoxypropoxy) phenyl] propan				
	oral	LD50 mg/kg	15000	Rat	
	dermal	LD50 mg/kg	23000	Rabbit	
933999-84-9	Reaction products of hexane-1,6-diol with 2-(chloromethyl)oxirane				
	oral	LD50 mg/kg	3741	Rat	
	dermal	LD50 mg/kg	>2000	Rat	
68512-30-1	Phenol, methylstyrenated				
	oral	LD50 mg/kg	>2000	Rat	
	dermal	LD50 mg/kg	>2000	Rat	
68609-97-2	oxirane, mono[(C12-14-alkyloxy)methyl] derivs.				
	oral	LD50 mg/kg	26800	Rat	

Irritation and corrosivity

Causes skin irritation.

Causes serious eye irritation.

Sensitising effects

May cause an allergic skin reaction. (Bis [4- (2,3-Epoxypropoxy) phenyl] propan; Reaction products of hexane-1,6-diol with 2-(chloromethyl)oxirane; Phenol, methylstyrenated; oxirane, mono[(C12-14-alkyloxy)methyl] derivs.)

Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

STOT-single exposure

Based on available data, the classification criteria are not met.

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STOT-repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

Additional information on tests

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

SECTION 12: Ecological information**12.1. Toxicity**

Toxic to aquatic life with long lasting effects.

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h] [d]	Species	Source	Method
1675-54-3	Bis [4- (2,3-Epoxypropoxy) phenyl] propan					
	Acute fish toxicity	LC50 2 mg/l	96 h	Oncorhynchus mykiss (Rainbow trout)		
	Acute algae toxicity	ErC50 11 mg/l	72 h	Scenedesmus capricornutum		
	Acute crustacea toxicity	EC50 1,8 mg/l	48 h	Daphnia pulex (water flea)		
933999-84-9	Reaction products of hexane-1,6-diol with 2-(chloromethyl)oxirane					
	Acute fish toxicity	LC50 30 mg/l	96 h	Oncorhynchus mykiss (Rainbow trout)		
	Acute bacteria toxicity	(EC50 >100 mg/l)	3 h	Activated sludge		OECD
68512-30-1	Phenol, methylstyrenated					
	Acute fish toxicity	LL50 25,8 mg/l	96 h			
	Acute algae toxicity	ErC50 15 mg/l	72 h			
	Acute crustacea toxicity	EL50 14-51 mg/l	48 h	Daphnie		
68609-97-2	oxirane, mono[(C12-14-alkyloxy)methyl] derivs.					
	Acute fish toxicity	LC50 >5000 mg/l	96 h	Oncorhynchus mykiss (Rainbow trout)		
	Acute algae toxicity	ErC50 843 mg/l	72 h	Pseudokirchneriella subcapitata		
	Algae toxicity	NOEC 500 mg/l	72 d	Pseudokirchneriella subcapitata		
	Acute bacteria toxicity	(EC50 >100 mg/l)	3 h	Activated sludge		

12.2. Persistence and degradability

The product has not been tested.

CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
933999-84-9	Reaction products of hexane-1,6-diol with 2-(chloromethyl)oxirane			
	OECD	47%	28	
68609-97-2	oxirane, mono[(C12-14-alkyloxy)methyl] derivs.			
	OECD	87%	28	

12.3. Bioaccumulative potential

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The product has not been tested.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
933999-84-9	Reaction products of hexane-1,6-diol with 2-(chloromethyl)oxirane	0,822
68512-30-1	Phenol, methylstyrenated	3,6-6,3
68609-97-2	oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	3,77

BCF

CAS No	Chemical name	BCF	Species	Source
68609-97-2	oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	160	Fisch	

12.4. Mobility in soil

The product has not been tested.

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH.

The product has not been tested.

12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

12.7. Other adverse effects

No information available.

Further information

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

SECTION 13: Disposal considerations**13.1. Waste treatment methods****Disposal recommendations**

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Dispose of waste according to applicable legislation.

List of Wastes Code - residues/unused products

080410 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU of adhesives and sealants (including waterproofing products); waste adhesives and sealants other than those mentioned in 08 04 09

List of Wastes Code - used product

080499 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU of adhesives and sealants (including waterproofing products); wastes not otherwise specified

List of Wastes Code - contaminated packaging

080499 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU of adhesives and sealants (including waterproofing products); wastes not otherwise specified

Contaminated packaging

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information

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Land transport (ADR/RID)**14.1. UN number or ID number:**

UN 3082

14.2. UN proper shipping name:

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Bis [4- (2,3-Epoxypropoxy) phenyl] propan)

14.3. Transport hazard class(es):

9

14.4. Packing group:

III

Hazard label:

9



Classification code:

M6

Special Provisions:

274 335 375 601

Limited quantity:

5 L

Excepted quantity:

E1

Transport category:

3

Hazard No:

90

Tunnel restriction code:

-

Inland waterways transport (ADN)**14.1. UN number or ID number:**

UN 3082

14.2. UN proper shipping name:

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Bis [4- (2,3-Epoxypropoxy) phenyl] propan)

14.3. Transport hazard class(es):

9

14.4. Packing group:

III

Hazard label:

9



Classification code:

M6

Special Provisions:

274 335 375 601

Limited quantity:

5 L

Excepted quantity:

E1

Marine transport (IMDG)**14.1. UN number or ID number:**

UN 3082

14.2. UN proper shipping name:

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Bis [4- (2,3-Epoxypropoxy) phenyl] propan)

14.3. Transport hazard class(es):

9

14.4. Packing group:

III

Hazard label:

9



Special Provisions:

274, 335, 969

Limited quantity:

5 L

Excepted quantity:

E1

EmS:

F-A, S-F

Air transport (ICAO-TI/IATA-DGR)**14.1. UN number or ID number:**

UN 3082

14.2. UN proper shipping name:

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Bis [4- (2,3-Epoxypropoxy) phenyl] propan)

14.3. Transport hazard class(es):

9

14.4. Packing group:

III

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Hazard label:

9



Special Provisions:

A97 A158 A197

Limited quantity Passenger:

30 kg G

Passenger LQ:

Y964

Excepted quantity:

E1

IATA-packing instructions - Passenger:

964

IATA-max. quantity - Passenger:

450 L

IATA-packing instructions - Cargo:

964

IATA-max. quantity - Cargo:

450 L

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS:

Yes



Danger releasing substance:

Bis [4- (2,3-Epoxypropoxy) phenyl] propan

14.6. Special precautions for user

No information available.

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 regulatory information**

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 75

Information according to 2012/18/EU
(SEVESO III):

E2 Hazardous to the Aquatic Environment

National regulatory information

Employment restrictions:

Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).

Water hazard class (D):

2 - obviously hazardous to water

Skin resorption/Sensitization:

Causes allergic hypersensitivity reactions.

15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information**Abbreviations and acronyms**

CLP: Classification, labelling and Packaging

REACH: Registration, Evaluation and Authorization of Chemicals

GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals

UN: United Nations

CAS: Chemical Abstracts Service

DNEL: Derived No Effect Level

DMEL: Derived Minimal Effect Level

PNEC: Predicted No Effect Concentration

ATE: Acute toxicity estimate

LC50: Lethal concentration, 50%

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LD50: Lethal dose, 50%
LL50: Lethal loading, 50%
EL50: Effect loading, 50%
EC50: Effective Concentration 50%
ErC50: Effective Concentration 50%, growth rate
NOEC: No Observed Effect Concentration
BCF: Bio-concentration factor
PBT: persistent, bioaccumulative, toxic
vPvB: very persistent, very bioaccumulative
ADR: Accord européen sur le transport des marchandises dangereuses par Route
(European Agreement concerning the International Carriage of Dangerous Goods by Road)
RID: Regulations concerning the international carriage of dangerous goods by rail
ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
(Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures)
IMDG: International Maritime Code for Dangerous Goods
EmS: Emergency Schedules
MFAG: Medical First Aid Guide
IATA: International Air Transport Association
ICAO: International Civil Aviation Organization
MARPOL: International Convention for the Prevention of Marine Pollution from Ships
IBC: Intermediate Bulk Container
SVHC: Substance of Very High Concern
For abbreviations and acronyms, see table at <http://abbrev.esdscom.eu>

Classification for mixtures and used evaluation method according to GB CLP Regulation

Classification	Classification procedure
Skin Irrit. 2; H315	Calculation method
Eye Irrit. 2; H319	Calculation method
Skin Sens. 1; H317	Calculation method
Aquatic Chronic 2; H411	Calculation method

Relevant H and EUH statements (number and full text)

H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H411 Toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.

Further Information

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)