

according to Regulation (EC) No 1907/2006

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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

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UFI: T0HC-43PG-3TAE-4A9N

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

Use of the substance/mixture

ARC Polymer Composite. Repair damage caused by impact, abrasion or erosion and chemical attack.

Uses advised against

No information available.

1.3. Details of the supplier of the safety data sheet

Company name: Chesterton International GmbH

Street: Am Lenzenfleck 23

Place: D-85737 Ismaning GERMANY

Telephone: +49 89 99 65 46 - 0 Telefax: +49 89 99 65 46 - 50

e-mail: eu-sds@chesterton.com
e-mail (Contact person): eu-sds@chesterton.com
Internet: www.chesterton.com
Responsible Department: eu-sds@chesterton.com

1.4. Emergency telephone +49(0) 551 - 1 92 40 (GIZ-Nord, 24h)

number:

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

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

Regulation (EC) No 1272/2008

Hazard components for labelling

Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol

Epoxy phenol novolac resin

oxirane, mono[(C12-14-alkyloxy)methyl] derivs.

epoxy resin (number average molecular weight <= 700), reaction product: bisphenol-A-(epichlorhydrin)

1,6-bis(2,3-epoxypropoxy)hexane

Phenol, styrenated

Signal word: Warning



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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.

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing

protection.

P302+P352 IF ON SKIN: Wash with plenty of water.

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.

P501 Dispose of contents/container to an appropriate recycling or disposal facility.

Special labelling of certain mixtures

EUH212 Warning! Hazardous respirable dust may be formed when used. Do not breathe dust.

2.3. Other hazards

The safety and health hazards are detailed separately for Part A and Part B. The final cured material is considered nonhazardous. Upon machining, refer to the precautions in the safety data sheets for Part A and Part B.

SECTION 3: Composition/information on ingredients

3.2. Mixtures



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Hazardous components

CAS No	Chemical name	Quantity		
	EC No	Index No	REACH No	
	Classification (Regulation (EC) No	•		
9003-36-5	Formaldehyde, oligomeric reaction	products with 1-chloro-2,3-ep	oxypropane and phenol	40 - < 45 %
	500-006-8		01-2119454392-40	
	Skin Irrit. 2, Skin Sens. 1, Aquatic 0	Chronic 2; H315 H317 H411	·	
28064-14-4	Epoxy phenol novolac resin			35 - < 40 %
	Skin Irrit. 2, Eye Irrit. 2, Skin Sens.	1, Aquatic Chronic 2; H315 H	319 H317 H411	
68609-97-2	oxirane, mono[(C12-14-alkyloxy)me	ethyl] derivs.		10 - < 15 %
	271-846-8	603-103-00-4	01-2119485289-22	
	Skin Irrit. 2, Skin Sens. 1; H315 H3	17	•	
25068-38-6	epoxy resin (number average mole (epichlorhydrin)	5 - < 10 %		
	500-033-5	603-074-00-8	01-2119456619-26	
	Skin Irrit. 2, Eye Irrit. 2, Skin Sens.			
13463-67-7	titanium dioxide	1 - < 5 %		
	236-675-5	022-006-00-2	01-2119489379-17	
	Carc. 2; H351			
16096-31-4	1,6-bis(2,3-epoxypropoxy)hexane	< 1 %		
	240-260-4		01-2119463471-41	
	Skin Irrit. 2, Eye Irrit. 2, Skin Sens.	1, Aquatic Chronic 3; H315 H	319 H317 H412	
61788-44-1	Phenol, styrenated	< 0.1 %		
	262-975-0		01-2119980970-27	
	Skin Irrit. 2, Skin Sens. 1A, Aquatic			

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	
9003-36-5	500-006-8	Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol	40 - < 45 %
	dermal: LD50) = > 2000 mg/kg; oral: LD50 = > 5000 mg/kg	
68609-97-2	271-846-8	oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	10 - < 15 %
	oral: LD50 = 3	> 2000 mg/kg	
25068-38-6	500-033-5	epoxy resin (number average molecular weight <= 700), reaction product: bisphenol-A-(epichlorhydrin)	5 - < 10 %
	dermal: LD50 Irrit. 2; H319:	0 = > 2000 mg/kg; oral: LD50 = > 2000 mg/kg	
13463-67-7	236-675-5	titanium dioxide	1 - < 5 %
	oral: LD50 = 3	> 2000 mg/kg	
61788-44-1	262-975-0	Phenol, styrenated	< 0.1 %
	dermal: LD50) = > 2000 mg/kg; oral: LD50 = > 2000 mg/kg	



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Further Information

Titanium dioxide (Cas 13463-67-7) is only present in the color gray.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Change contaminated, saturated clothing. In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

After inhalation

In case of inhalation of decomposition products, affected person should be moved into fresh air and kept still.

After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Seek medical advice immediately. Do not wash with: Solvents/Thinner

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

If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention.

Do NOT induce vomiting

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

Processing vapours can irritate the respiratory tracts, skin and eyes.

Symptoms may develop several hours following exposure; medical observation therefore necessary for at least 48 hours.

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

First Aid, decontamination, treatment of symptoms.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

- alcohol resistant foam
- Water spray jet
- Carbon dioxide (CO2)
- Dry extinguishing powder

Unsuitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

In case of fire may be liberated:

- Carbon monoxide
- Carbon dioxide
- Nitrogen oxides (NOx)

5.3. Advice for firefighters

Special protective equipment for firefighters Protective clothing. In case of fire: Wear self-contained breathing apparatus.



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

Additional information

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. Remove persons to safety. Safe handling: see section 7

Personal protection equipment: see section 8

6.2. Environmental precautions

Do not allow to enter into surface water or drains. Cover drains. Adverse environmental effects

6.3. Methods and material for containment and cleaning up

For containment

Take up mechanically, placing in appropriate containers for disposal. 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

Avoid breathing dust/fume/gas/mist/vapours/spray.

Avoid contact with skin, eyes and clothes.

Take off contaminated clothing and wash it before reuse.

Contaminated work clothing should not be allowed out of the workplace.

When using do not eat, drink or smoke.

Personal protection equipment: see section 8

Advice on protection against fire and explosion

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Advice on general occupational hygiene

Work in well-ventilated zones or use proper respiratory protection. Only wear fitting, comfortable and clean protective clothing. Avoid contact with skin, eyes and clothes. Wash hands and face before breaks and after work and take a shower if necessary.

Further information on handling

Wash hands before breaks and after work. Used working clothes should not be worn outside the work area. Street clothing should be stored separately from work clothing.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed in a cool, well-ventilated place. Keep/Store only in original container.



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Hints on joint storage

Keep away from food, drink and animal feedingstuffs.

Further information on storage conditions

Keep away from:

- Frost
- Heat
- Humidity

7.3. Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

CAS No	Substance	ppm	mg/m³	fib/cm³	Category	Origin
13463-67-7	Titanium dioxide, respirable dust	-	4		TWA (8 h)	



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DNEL/DMEL values

CAS No	Substance			
DNEL type		Exposure route	Effect	Value
9003-36-5	Formaldehyde, oligomeric reaction products	s with 1-chloro-2,3-epoxypropane	and phenol	
Worker DNEL	, long-term	inhalation	systemic	29,39 mg/m³
Worker DNEL	long-term	dermal	systemic	104,15 mg/kg bw/day
Worker DNEL	, acute	dermal	local	0,0083 mg/cm ²
Consumer DN	EL, long-term	inhalation	systemic	8,7 mg/m³
Consumer DN	EL, long-term	dermal	systemic	62,5 mg/kg bw/day
Consumer DN	EL, long-term	oral	systemic	6,25 mg/kg bw/day
68609-97-2	oxirane, mono[(C12-14-alkyloxy)methyl] de	rivs.		
Worker DNEL	, long-term	inhalation	systemic	3,6 mg/m³
Worker DNEL	, long-term	dermal	systemic	1 mg/kg bw/day
Consumer DN	EL, long-term	inhalation	systemic	0,87 mg/m³
Consumer DN	EL, long-term	dermal	systemic	0,5 mg/kg bw/day
Consumer DN	EL, long-term	oral	systemic	0,5 mg/kg bw/day
,				
25068-38-6	epoxy resin (number average molecular we	ight <= 700), reaction product: bis	phenol-A-(epichlorhyd	drin)
Worker DNEL	, long-term	inhalation	systemic	12,25 mg/m³
Worker DNEL	, acute	inhalation	systemic	12,25 mg/m³
Worker DNEL	, long-term	dermal	systemic	8,33 mg/kg bw/day
Worker DNEL	, acute	dermal	systemic	8,33 mg/kg bw/day
Consumer DN	EL, long-term	dermal	systemic	3,571 mg/kg bw/day
Consumer DN	EL, acute	dermal	systemic	3,571 mg/kg bw/day
Consumer DN	EL, long-term	oral	systemic	0,75 mg/kg bw/day
Consumer DN	EL, acute	oral	systemic	0,75 mg/kg bw/day
13463-67-7	titanium dioxide			
Worker DNEL	, long-term	inhalation	local	1,25 mg/m³
Consumer DN	EL, long-term	oral	systemic	700 mg/kg bw/day
61788-44-1	Phenol, styrenated			,
Worker DNEL		inhalation	systemic	7,4 mg/m³
M/	, long-term	dermal	systemic	2,1 mg/kg bw/day



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Consumer DNEL, long-term	inhalation	systemic	1,31 mg/m³
Consumer DNEL, long-term	dermal	systemic	0,75 mg/kg bw/day
Consumer DNEL, long-term	oral	systemic	0,75 mg/kg bw/day

PNEC values

CAS No	Substance			
Environmenta	compartment	Value		
9003-36-5	Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol			
Freshwater		0,003 mg/l		
Marine water		0,00 mg/l		
Freshwater se	diment	0,294 mg/kg		
Marine sedim	ent	0,029 mg/kg		
Soil		0,237 mg/kg		
68609-97-2	oxirane, mono[(C12-14-alkyloxy)methyl] derivs.			
Freshwater		0,106 mg/l		
Freshwater (in	stermittent releases)	0,072 mg/l		
Marine water		0,011 mg/l		
Freshwater se	diment	307,16 mg/kg		
Marine sedim	ent	30,72 mg/kg		
Micro-organisms in sewage treatment plants (STP)				
Soil		1,234 mg/kg		
25068-38-6	epoxy resin (number average molecular weight <= 700), reaction product: bisphenol-A-(epi	ichlorhydrin)		
Freshwater		0,006 mg/l		
Marine water		0,001 mg/l		
Freshwater se	diment	0,996 mg/kg		
Marine sedim	ent	0,1 mg/kg		
Secondary po	isoning	11 mg/kg		
Soil		0,196 mg/kg		
61788-44-1	Phenol, styrenated			
Freshwater		0,004 mg/l		
Freshwater (intermittent releases) 0,				
Marine water		0,0004 mg/l		
Freshwater se	diment	0,248 mg/kg		
Marine sediment 0,0248 mg/kg				
Micro-organis	ms in sewage treatment plants (STP)	36,2 mg/l		
Soil		0,0473 mg/kg		

8.2. Exposure controls



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Appropriate engineering controls

Provide adequate ventilation as well as local exhaustion at critical locations.

Individual protection measures, such as personal protective equipment

Eye/face protection

Suitable eye protection:

- Eye glasses with side protection
- goggles

Hand protection

Tested protective gloves must be worn: EN ISO 374

NBR (Nitrile rubber),

Wearing time with permanent contact: Thickness of the glove material: >= 0,4 mm, Breakthrough time: >480

Wearing time with occasional contact (splashes): Thickness of the glove material: >= 0,1 mm, Breakthrough time: > 30 min

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.

Breakthrough times and swelling properties of the material must be taken into consideration.

Skin protection

Protective clothing

Respiratory protection

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

Combination filtering device A-P2

Thermal hazards

No data available

Environmental exposure controls

Do not allow to enter into surface water or drains.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: Paste
Colour: grey; red
Odour: characteristic

Test method

Changes in the physical state

Melting point/freezing point:

Boiling point or initial boiling point and

not applicable
not applicable

boiling range:

Flash point: > 93 °C

Flammability

Solid/liquid: No data available
Gas: No data available

Explosive properties

No information available.



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Lower explosion limits:

Upper explosion limits:

not applicable

not applicable

Auto-ignition temperature:

No data available

Self-ignition temperature

Solid:
Gas:
No data available
Pecomposition temperature:
No data available
pH-Value:
not applicable
Viscosity / dynamic:
~ 2500 mPa·s

(at 25 °C)

Water solubility: Immiscible

Solubility in other solvents

No information available.

Partition coefficient n-octanol/water: No data available Vapour pressure: No data available Density: $\sim 1,20 \text{ g/cm}^3$

Relative vapour density: >1 (air = 1)

9.2. Other information

Information with regard to physical hazard classes

Oxidizing properties

No information available.

Other safety characteristics

Evaporation rate: < 1 (Ether = 1)

Further Information

No information available.

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is stable under storage at normal ambient temperatures.

10.2. Chemical stability

Does not decompose when used for intended uses. No known hazardous decomposition products.

10.3. Possibility of hazardous reactions

Exothermic reaction with: Acid, Oxidising agent

10.4. Conditions to avoid

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames.

10.5. Incompatible materials

- Strong acid
- Strong alkali
- Oxidising agent, strong



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10.6. Hazardous decomposition products

- Carbon monoxide,
- aldehydes,
- Acids

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

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

CAS No	Chemical name							
	Exposure route	Dose		Species	Source	Method		
9003-36-5	Formaldehyde, oligomer	ic reaction pro	oducts with	1-chloro-2,3-epoxypropan	e and phenol			
	oral	LD50 mg/kg	> 5000	Rat	Study report (1988)	OECD Guideline 401		
	dermal	LD50 mg/kg	> 2000	Rat	Study report (1988)	OECD Guideline 402		
68609-97-2	oxirane, mono[(C12-14-a	alkyloxy)meth	yl] derivs.					
	oral	LD50 mg/kg	> 2000	Rat	Study report (1977)	Three groups each of four female rats re		
25068-38-6	epoxy resin (number ave	rage molecul	ar weight <=	700), reaction product: b	isphenol-A-(epichlorhydri	n)		
	oral	LD50 mg/kg	> 2000	Rat	Study report (2007)	OECD Guideline 420		
	dermal	LD50 mg/kg	> 2000	Rat	Study report (2007)	OECD Guideline 402		
13463-67-7	titanium dioxide							
	oral	LD50 mg/kg	> 2000	Rat	Study report (1996)	OECD Guideline 401		
61788-44-1	Phenol, styrenated							
	oral	LD50 mg/kg	> 2000	Rat	Study report (2014)	OECD Guideline 423		
	dermal	LD50 mg/kg	> 2000	Rat	Study report (2014)	OECD Guideline 402		

Irritation and corrosivity

Causes skin irritation.

Causes serious eye irritation.

Sensitising effects

May cause an allergic skin reaction. (Formaldehyde, oligomeric reaction products with

1-chloro-2,3-epoxypropane and phenol; Epoxy phenol novolac resin; oxirane, mono[(C12-14-alkyloxy)methyl] derivs.; epoxy resin (number average molecular weight <= 700), reaction product: bisphenol-A-(epichlorhydrin);

1,6-bis(2,3-epoxypropoxy)hexane; Phenol, styrenated)

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.

11.2. Information on other hazards

Other information

No data available

SECTION 12: Ecological information

12.1. Toxicity



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CAS No	Chemical name							
	Aquatic toxicity	Dose		[h] [d]	Species	Source	Method	
9003-36-5	Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol							
	Acute fish toxicity	LC50 mg/l	2,54	96 h	Oncorhynchus mykiss	Study report (1998)	OECD Guideline 203	
	Acute algae toxicity	ErC50 mg/l	> 1,8	72 h	Pseudokirchneriella subcapitata	Study report (1993)	OECD Guideline 201	
	Acute crustacea toxicity	EC50 mg/l	2,55	48 h	Daphnia magna	Study report (1998)	OECD Guideline 202	
	Crustacea toxicity	NOEC	0,3 mg/l	21 d	Daphnia magna	Study report (1984)	OECD Guideline 211	
68609-97-2	oxirane, mono[(C12-14-al	kyloxy)metł	nyl] derivs.					
	Acute fish toxicity	LL50 mg/l	> 100	96 h	Oncorhynchus mykiss	Study report (2015)	OECD Guideline 203	
	Crustacea toxicity	NOEC	56 mg/l	21 d	Daphnia magna	(2017)	OECD Guideline 211	
25068-38-6	epoxy resin (number aver	age molecu	ılar weight <=	700), re	action product: bispheno	I-A-(epichlorhydrin)		
	Acute fish toxicity	LC50	3,6 mg/l	96 h	Oncorhynchus mykiss	Study report (1982)	OECD Guideline 203	
	Acute algae toxicity	ErC50 mg/l	> 100	72 h	Pseudokirchneriella subcapitata	Study report (2007)	OECD Guideline 201	
	Acute crustacea toxicity	EC50	1,7 mg/l	48 h	Daphnia magna	Study report (1984)	OECD Guideline 202	
	Crustacea toxicity	NOEC	0,3 mg/l	21 d	Daphnia magna	Study report (1984)	OECD Guideline 211	
13463-67-7	titanium dioxide							
	Acute fish toxicity	LC50 mg/l	> 100	96 h	Carassius auratus	REACh Registration Dossier	OECD Guideline 203	
	Acute algae toxicity	ErC50 mg/l	> 50	72 h	Raphidocelis subcapitata	REACh Registration Dossier	OECD Guideline 201	
	Acute crustacea toxicity	EC50 mg/l	> 100	48 h	Artemia salina	REACh Registration Dossier	OECD Guideline 202	
	Fish toxicity	NOEC mg/l	>= 80	6 d	Danio rerio	REACh Registration Dossier	OECD TG 210	
	Algae toxicity	NOEC mg/l	>= 1	32 d	Synedra ulna, Scenedesmus quadricauda, Stigeocloni	Environ. Tox. Chem. 31, 2414-2422 (2012)	In this study, the authors report th	
	Crustacea toxicity	NOEC	> 1 mg/l	10 d	Chironomus riparius	REACh Registration Dossier	other: OECD Guideline 219	
	Acute bacteria toxicity	(EC50 mg/l)	> 1000	3 h	activated sludge, domestic	REACh Registration Dossier	OECD Guideline 209	



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61788-44-1	Phenol, styrenated						
	Acute fish toxicity	LC50	5,6 mg/l	96 h		REACh Registration Dossier	other: Refer below principle
	Acute algae toxicity	ErC50 mg/l	20,42	72 h	Chlorella vulgaris	REACh Registration Dossier	OECD Guideline 201
	Acute crustacea toxicity	EC50	4,6 mg/l	48 h	Daphnia magna	REACh Registration Dossier	OECD Guideline 202
	Fish toxicity	NOEC mg/l	0,0618	63 d	Danio rerio	REACh Registration Dossier	other: OECD 234 Fish Sexual Development
	Crustacea toxicity	NOEC	0,2 mg/l	21 d	Daphnia magna	REACh Registration Dossier	other: Refer below principle

12.2. Persistence and degradability

CAS No	Chemical name						
	Method	Value	d	Source			
	Evaluation	-	-	-			
68609-97-2	oxirane, mono[(C12-14-alkyloxy)methyl] derivs.						
	OECD 301F	87%	28				
25068-38-6	epoxy resin (number average molecular weight <= 700), reaction product: bisphenol-A-(epichlorhydrin)						
	OECD 301F/ ISO 9408/ EEC 92/69/V, C.4-D	5%	25				
	Not readily biodegradable (according to OECD criteria	1)					
61788-44-1	Phenol, styrenated						
	OECD 301F	7%	28				
	Not readily biodegradable (according to OECD criteria	n)					

12.3. Bioaccumulative potential

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
9003-36-5	Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol	2,7
68609-97-2	oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	3,77
25068-38-6	epoxy resin (number average molecular weight <= 700), reaction product: bisphenol-A-(epichlorhydrin)	>= 2,64
61788-44-1	Phenol, styrenated	3,03



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BCF

CAS No	Chemical name	BCF	Species	Source
9003-36-5	Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol	150		Other company data (
68609-97-2	oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	>= 160		REACh Registration D
25068-38-6	epoxy resin (number average molecular weight <= 700), reaction product: bisphenol-A-(epichlorhydrin)	31		Study report (2010)
13463-67-7	titanium dioxide	> 0,47 - < 3,19	Artemia salina	REACh Registration D
61788-44-1	Phenol, styrenated	168	Cyprinus carpio	http://www.safe.nite

12.4. Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment

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

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.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Dispose of waste according to applicable legislation.

Contaminated packaging

Non-contaminated packages may be recycled. Dispose of waste according to applicable legislation.

SECTION 14: Transport information

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.

(epoxy resin)

14.3. Transport hazard class(es):914.4. Packing group:IIIHazard label:9Classification code:M6

Special Provisions: 274 335 375 601

Limited quantity: 5 L
Excepted quantity: E1
Transport category: 3
Hazard No: 90



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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.

(epoxy resin)

14.3. Transport hazard class(es):914.4. Packing group:IIIHazard label:9Classification 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.

(epoxy resin)

14.3. Transport hazard class(es):914.4. Packing group:IIIHazard 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.

(epoxy resin)

14.3. Transport hazard class(es):914.4. Packing group:IIIHazard label:9

Special Provisions: A97 A158 A197 A215

Limited quantity Passenger: 30 kg G
Passenger LQ: Y964
Excepted quantity: E1

IATA-packing instructions - Passenger:964IATA-max. quantity - Passenger:450 LIATA-packing instructions - Cargo:964IATA-max. quantity - Cargo:450 L

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: Yes

Danger releasing substance: epoxy resin

14.6. Special precautions for user

No information available.

14.7. Maritime transport in bulk according to IMO instruments

No information available.



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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

E2 Hazardous to the Aquatic Environment

(SEVESO III):

National regulatory information

Water hazard class (D): 2 - obviously hazardous to water

15.2. Chemical safety assessment

For the following substances of this mixture a chemical safety assessment has been carried out:

Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol

oxirane, mono[(C12-14-alkyloxy)methyl] derivs.

epoxy resin (number average molecular weight <= 700), reaction product: bisphenol-A-(epichlorhydrin)

titanium dioxide Phenol, styrenated

SECTION 16: Other information

Changes

This data sheet contains changes from the previous version in section(s): 2,3,5,6,7,8,9,10,11,14,15.

Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route

(European Agreement concerning the International Carriage of Dangerous Goods by Road)

RID:Règlement international conernat le transport des marchandises dangereuses par chemin de fer

(Regulations Concerning the International Transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Refulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organization

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)

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%

LD50: Lethal dose, 50% LL50: Lethal loading, 50%

EL50: Effect loading, 50%

EC50: Effective Concentration 50%

ErC50: Effective Concentration 50%, growth rate



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NOEC: No Observed Effect Concentration

BCF: Bio-concentration factor

PBT: persistent, bioaccumulative, toxic vPvB: very persistent, very bioaccumulative

MARPOL: International Convention for the Prevention of Marine Pollution from Ships

IBC: Intermediate Bulk Container SVHC: Substance of Very High Concern

Classification for mixtures and used evaluation method according to Regulation (EC) No 1272/2008 [CLP]

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.
H351	Suspected of causing cancer.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
EUH212	Warning! Hazardous respirable dust may be formed when used. Do not breathe dust.

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