

according to Regulation (EC) No 1907/2006

# ARC 988(E) Parl A, color grey and red

Revision date: 11.07.2019

Page 1 of 18

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

#### 1.1. Product identifier

ARC 988(E) Parl A, color grey and red

## 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:	DE-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

Hazard categories: Skin corrosion/irritation: Skin Irrit. 2 Serious eye damage/eye irritation: Eye Irrit. 2 Respiratory or skin sensitisation: Skin Sens. 1 Hazardous to the aquatic environment: Aquatic Chronic 2 Hazard Statements: Causes skin irritation. Causes serious eye irritation. May cause an allergic skin reaction. Toxic to aquatic life with long lasting effects.

### 2.2. Label elements

Regulation (EC) No. 1272/2008



according to Regulation (EC) No 1907/2006

# ARC 988(E) Parl A, color grey and red

Revision date: 11.07.2019

Page 2 of 18

#### 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

Warning

Signal word: 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.
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.

# 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



according to Regulation (EC) No 1907/2006

# ARC 988(E) Parl A, color grey and red

Revision date: 11.07.2019

Page 3 of 18

#### Hazardous components

CAS No	Chemical name	Quantity			
	EC No	Index No	REACH No		
	GHS Classification		·		
9003-36-5	3-36-5 Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol				
	500-006-8		01-2119454392-40		
	Skin Irrit. 2, Skin Sens. 1, Aqua	tic Chronic 2; H315 H317 H4	11		
28064-14-4	Epoxy phenol novolac resin		F	35 - < 40 %	
	Skin Irrit. 2, Eye Irrit. 2, Skin Se	ns. 1, Aquatic Chronic 2; H31	15 H319 H317 H411		
68609-97-2	oxirane, mono[(C12-14-alkyloxy	10 - < 15 %			
	271-846-8	603-103-00-4	01-2119485289-22		
	Skin Irrit. 2, Skin Sens. 1; H315	H317			
25068-38-6	epoxy resin (number average m (epichlorhydrin)	nolecular weight <= 700), read	ction product: bisphenol-A-	5 - < 10 %	
	500-033-5	603-074-00-8	01-2119456619-26		
	Skin Irrit. 2, Eye Irrit. 2, Skin Se	ns. 1, Aquatic Chronic 2; H31	15 H319 H317 H411		
933999-84-9	2,2'-[hexane-1,6-diylbis(oxymet	hylene)]dioxirane		< 1 %	
	618-939-5		01-2119463471-41		
	Skin Irrit. 2, Eye Irrit. 2, Skin Se	ns. 1, Aquatic Chronic 3; H31	15 H319 H317 H412		
61788-44-1	Phenol, styrenated			< 0.1 %	
	262-975-0		01-2119980970-27		
	Skin Irrit. 2, Skin Sens. 1A, Aqu	atic Chronic 2; H315 H317 H	411		

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

## **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.



according to Regulation (EC) No 1907/2006

# ARC 988(E) Parl A, color grey and red

Revision date: 11.07.2019

Page 4 of 18

### 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

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

### Unsuitable extinguishing media

Full water jet

#### 5.2. Special hazards arising from the substance or mixture

Carbon monoxide Carbon dioxide (CO2). Nitrogen oxides (NOx)

#### 5.3. Advice for firefighters

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

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

See protective measures under point 7 and 8. Provide adequate ventilation. Personal protection equipment: see section 8 Remove persons to safety.

#### 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

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

See protective measures under point 7 and 8. Disposal: see section 13

## **SECTION 7: Handling and storage**

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according to Regulation (EC) No 1907/2006

# ARC 988(E) Parl A, color grey and red

Revision date: 11.07.2019

## 7.1. Precautions for safe handling

### Advice on safe handling

See section 8.

Wear personal protection equipment (refer to section 8). 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. Never use pressure to empty container. Keep/Store only in original container. Do not allow to enter into surface water or drains.

## Advice on protection against fire and explosion

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

## 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.

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

#### **Exposure limits (EH40)**

CAS No	Substance	ppm	mg/m³	fibres/ml	Category	Origin
13463-67-7	Titanium dioxide, total inhalable	-	10		TWA (8 h)	WEL

Page 5 of 18



according to Regulation (EC) No 1907/2006

# ARC 988(E) Parl A, color grey and red

Revision date: 11.07.2019

Page 6 of 18

### **DNEL/DMEL** values

ONEL type				
		Exposure route	Effect	Value
9003-36-5	Formaldehyde, oligomeric reaction produc		and phenol	
Norker DNEL,	long-term	inhalation	systemic	29,39 mg/m <sup>3</sup>
Worker DNEL,	long-term	dermal	systemic	104,15 mg/kg bw/day
Norker DNEL,	acute	dermal	local	0,0083 mg/cm <sup>2</sup>
Consumer DNE	EL, long-term	inhalation	systemic	8,7 mg/m³
Consumer DNE	EL, long-term	dermal	systemic	62,5 mg/kg bw/day
Consumer DNE	EL, long-term	oral	systemic	6,25 mg/kg bw/day
68609-97-2	oxirane, mono[(C12-14-alkyloxy)methyl] d	lerivs.		
Norker DNEL,	long-term	inhalation	systemic	3,6 mg/m³
Norker DNEL,	long-term	dermal	systemic	1 mg/kg bw/day
Consumer DNE	EL, long-term	inhalation	systemic	0,87 mg/m³
Consumer DNE	EL, long-term	dermal	systemic	0,5 mg/kg bw/day
Consumer DNE	L, long-term	oral	systemic	0,5 mg/kg bw/day
,				
25068-38-6	epoxy resin (number average molecular w	veight <= 700), reaction product: bis	phenol-A-(epichlorhyd	drin)
Norker DNEL,	long-term	inhalation	systemic	12,25 mg/m³
Norker DNEL,	acute	inhalation	systemic	12,25 mg/m³
Worker DNEL,	long-term	dermal	systemic	8,33 mg/kg bw/day
Norker DNEL,	acute	dermal	systemic	8,33 mg/kg bw/day
Consumer DNE	EL, long-term	dermal	systemic	3,571 mg/kg bw/day
Consumer DNE	EL, acute	dermal	systemic	3,571 mg/kg bw/day
Consumer DNE	EL, long-term	oral	systemic	0,75 mg/kg bw/day
Consumer DNE	EL, acute	oral	systemic	0,75 mg/kg bw/day
3				
13463-67-7	Titanium dioxide			
Norker DNEL,	long-term	inhalation	local	10 mg/m <sup>3</sup>
Consumer DNE	EL, long-term	oral	systemic	700 mg/kg bw/da

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according to Regulation (EC) No 1907/2006

# ARC 988(E) Parl A, color grey and red

Page 7 of 18

Revision date: 11.07.2019			Page 7 of
Worker DNEL, long-term	inhalation	systemic	10,57 mg/m <sup>3</sup>
Worker DNEL, acute	inhalation	systemic	10,57 mg/m³
Worker DNEL, long-term	inhalation	local	0,44 mg/m <sup>3</sup>
Worker DNEL, long-term	dermal	systemic	6 mg/kg bw/day
Consumer DNEL, long-term	inhalation	systemic	5,29 mg/m³
Consumer DNEL, acute	inhalation	systemic	5,29 mg/m³
Consumer DNEL, long-term	inhalation	local	0,27 mg/m³
Consumer DNEL, long-term	dermal	systemic	3 mg/kg bw/day
Consumer DNEL, acute	dermal	systemic	1,7 mg/kg bw/day
Consumer DNEL, long-term	oral	systemic	1,5 mg/kg bw/day
Consumer DNEL, acute	oral	systemic	1,5 mg/kg bw/day
61788-44-1 Phenol, styrenated			
Worker DNEL, long-term	inhalation	systemic	7,4 mg/m³
Worker DNEL, long-term	dermal	systemic	2,1 mg/kg bw/day
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



according to Regulation (EC) No 1907/2006

# ARC 988(E) Parl A, color grey and red

Revision date: 11.07.2019

Page 8 of 18

#### **PNEC** values

CAS No	Substance	
Environmenta	al compartment	Value
9003-36-5	Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypro	opane and phenol
Freshwater		0,003 mg/l
Marine water	r	0,00 mg/l
Freshwater s	sediment	0,294 mg/kg
Marine sedim	nent	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 (i	intermittent releases)	0,072 mg/l
Marine water	r	0,011 mg/l
Freshwater s	sediment	307,16 mg/kg
Marine sedim	nent	30,72 mg/kg
Micro-organis	sms in sewage treatment plants (STP)	10 mg/l
Soil		1,234 mg/kg
25068-38-6	epoxy resin (number average molecular weight <= 700), reaction produ	uct: bisphenol-A-(epichlorhydrin)
Freshwater		0,006 mg/l
Marine water	r	0,001 mg/l
Freshwater s	sediment	0,996 mg/kg
Marine sedim	nent	0,1 mg/kg
Secondary po	oisoning	11 mg/kg
Soil		0,196 mg/kg
13463-67-7	Titanium dioxide	
Freshwater		0,184 mg/l
Freshwater (i	intermittent releases)	0,193 mg/l
Marine water	r	0,018 mg/l
Freshwater s	sediment	1000 mg/kg
Marine sedim	nent	100 mg/kg
Micro-organis	sms in sewage treatment plants (STP)	100 mg/l
Soil		100 mg/kg
933999-84-9	2,2'-[hexane-1,6-diylbis(oxymethylene)]dioxirane	
Freshwater		0,011 mg/l
Freshwater (i	intermittent releases)	0,115 mg/l
Marine water	r	0,001 mg/l
Freshwater s	sediment	0,283 mg/kg

Revision No: ©A. W. Chesterton Company, 2019 All Rights

Print date: 11.07.2019



according to Regulation (EC) No 1907/2006

# ARC 988(E) Parl A, color grey and red

Revision date: 11.07.2019 Page 9 of 18 Marine sediment 0,028 mg/kg Micro-organisms in sewage treatment plants (STP) 1 mg/l 0,223 mg/kg Soil 61788-44-1 Phenol, styrenated Freshwater 0,03 mg/l Freshwater (intermittent releases) 0,046 mg/l Marine water 0,003 mg/l Freshwater sediment 1,86 mg/kg Marine sediment 0,186 mg/kg Micro-organisms in sewage treatment plants (STP) 36,2 mg/l Soil 0,355 mg/kg

## 8.2. Exposure controls

### Appropriate engineering controls

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

#### Protective and hygiene measures

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.

#### 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), Butyl caoutchouc (butyl rubber), PVC (polyvinyl chloride)

Thickness of the glove material >= 0,4 mm

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

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.

Observe the wear time limits as specified by the manufacturer.

# 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 (EN 14387) A-P2



according to Regulation (EC) No 1907/2006

# ARC 988(E) Parl A, color grey and red

Revision date: 11.07.2019

Page 10 of 18

# **SECTION 9: Physical and chemical properties**

Information on basic physical and ch	emical properties		
Physical state:	Paste		
Colour:	grey; red		
Odour:	characteristic		
			Test method
pH-Value:		not applicable	
Changes in the physical state			
Melting point:		not applicable	
Initial boiling point and boiling range:		not applicable	
Flash point:		>93 °C	
Flammability			
Solid:		No data available	
Gas:		No data available	
Explosive properties No information available.			
Lower explosion limits:		not applicable	
Upper explosion limits:		not applicable	
Ignition temperature:		No data available	
Auto-ignition temperature			
Solid:		No data available	
Gas:		No data available	
Decomposition temperature:		No data available	
Oxidizing properties No information available.			
Vapour pressure:		No data available	
Density:		~1,20 g/cm³	
Water solubility:		Immiscible	
Solubility in other solvents No information available.			
Partition coefficient:		No data available	
Viscosity / dynamic: (at 25 °C)		~2500 mPa⋅s	
Vapour density:		>1	(air = 1)
Evaporation rate:		<1	(Ether = 1)
Other information			· ·
No information available.			



according to Regulation (EC) No 1907/2006

# ARC 988(E) Parl A, color grey and red

Revision date: 11.07.2019

Page 11 of 18

## **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

## 10.6. Hazardous decomposition products

Carbon monoxide, aldehydes, Acids

### **SECTION 11: Toxicological information**

## 11.1. Information on toxicological effects

### Acute toxicity

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



according to Regulation (EC) No 1907/2006

# ARC 988(E) Parl A, color grey and red

Revision date: 11.07.2019

Page 12 of 18

CAS No	Chemical name							
	Exposure route	Dose		Species	Source	Method		
9003-36-5	Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane 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	lkyloxy)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: bi	sphenol-A-(epichlorhydrin	)		
	oral	LD50 mg/kg	> 2000	Rat	Study report (2007)	OECD Guideline 420		
	dermal	LD50 mg/kg	> 2000	Rat	Study report (2007)	OECD Guideline 402		
933999-84-9	2,2'-[hexane-1,6-diylbis(c	xymethylene	)]dioxirane					
	oral	LD50 mg/kg	3010	Rat	Study report (1981)	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); 2,2'-[hexane-1,6-diylbis(oxymethylene)]dioxirane; 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.

## 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.

# **SECTION 12: Ecological information**

### 12.1. Toxicity

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according to Regulation (EC) No 1907/2006

# ARC 988(E) Parl A, color grey and red

Revision date: 11.07.2019

Page 13 of 18

CAS No	Chemical name								
	Aquatic toxicity	Dose		[h]   [d]	Species	Source	Method		
9003-36-5	Formaldehyde, oligomeric	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	LC50 mg/l	> 5000	96 h	Oncorhynchus mykiss	Study report (2006)	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		
933999-84-9	2,2'-[hexane-1,6-diylbis(o	xymethylen	e)]dioxirane						
	Acute fish toxicity	LC50 mg/l	ca. 30	96 h	Oncorhynchus mykiss	Study report (1990)	OECD Guideline 203		
	Acute crustacea toxicity	EC50 ca. 57 mg	ca. 39 - /l	48 h	Daphnia magna	Study report (1989)	OECD Guideline 202		
61788-44-1	Phenol, styrenated								
	Acute fish toxicity	LC50 mg/l	1,77	96 h	Danio rerio	Study report (2010)	OECD Guideline 203		
	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	1,9 mg/l	14 d	fish	REACh Registration Dossier	other: Refer below principle		
	Crustacea toxicity	NOEC	0,2 mg/l	21 d	Daphnia magna	REACh Registration Dossier	other: Refer below principle		

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Print date: 11.07.2019

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according to Regulation (EC) No 1907/2006

# ARC 988(E) Parl A, color grey and red

Revision date: 11.07.2019

Page 14 of 18

#### 12.2. Persistence and degradability

CAS No	Chemical name							
	Method	d	Source					
	Evaluation							
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)							
61788-44-1	Phenol, styrenated							
	OECD 301F 7% 28							
	Not readily biodegradable (according to OECD criteria)							

## 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
933999-84-9	2,2'-[hexane-1,6-diylbis(oxymethylene)]dioxirane	ca. 0,822
61788-44-1	Phenol, styrenated	2,415

## 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)
933999-84-9	2,2'- [hexane-1,6-diylbis(oxymethylene)]dioxi rane	3,57		Publication (2009)
61788-44-1	Phenol, styrenated	18,21	fish	REACh Registration D

#### 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.

## 12.6. Other adverse effects

No information available.

## **SECTION 13: Disposal considerations**



according to Regulation (EC) No 1907/2006

# ARC 988(E) Parl A, color grey and red

Revision date: 11.07.2019

Page 15 of 18

### 13.1. Waste treatment methods

#### Advice on disposal

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)	
<u>14.1. UN number:</u>	UN 3082
14.2. UN proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (epoxy resin)
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)	
<u>14.1. UN number:</u>	UN 3082
14.2. UN proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (epoxy resin)
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)	
<u>14.1. UN number:</u>	UN 3082
14.2. UN proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (epoxy resin)
14.3. Transport hazard class(es):	9
14.4. Packing group:	III
Hazard label:	9
Marine pollutant:	Р
Special Provisions:	274, 335, 969

GB - EN

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according to Regulation (EC) No 1907/2006

ARC 988(E) Parl A, color grey and red				
Revision date: 11.07.2019		Page 16 of 18		
Limited quantity: Excepted quantity: EmS:	5 L E1 F-A, S-F			
Air transport (ICAO-TI/IATA-DGR)				
<u>14.1. UN number:</u>	UN 3082			
14.2. UN proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (epoxy resin)			
14.3. Transport hazard class(es):	9			
14.4. Packing group:	III			
Hazard label: Special Provisions: Limited quantity Passenger: Passenger LQ: Excepted quantity:	9 A97 A158 A197 30 kg G Y964 E1			
IATA-packing instructions - Passenger: IATA-max. quantity - Passenger:	964 450 L			
IATA-max. quantity - Passenger. IATA-packing instructions - Cargo:	964			
IATA-max. quantity - Cargo:	450 L			
14.5. Environmental hazards				
ENVIRONMENTALLY HAZARDOUS:	ves			
Danger releasing substance:	epoxy resin			
<b>14.6. Special precautions for user</b> No information available.				
<b>14.7. Transport in bulk according to Annex I</b> No information available.	I of Marpol and the IBC Code			
SECTION 15: Regulatory information				
15.1. Safety, health and environmental regul	ations/legislation specific for the substance or mixture			
EU regulatory information Information according to 2012/18/EU (SEVESO III):	E2 Hazardous to the Aquatic Environment			
National regulatory information				
Water contaminating class (D):	2 - clearly water contaminating			
15.2. Chemical safety assessment				
For the following substances of this mix Formaldehyde, oligomeric reaction pro- oxirane, mono[(C12-14-alkyloxy)methy	ar weight <= 700), reaction product: bisphenol-A-(epichlorhydrin)			

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according to Regulation (EC) No 1907/2006

# ARC 988(E) Parl A, color grey and red

Revision date: 11.07.2019

Page 17 of 18

### **SECTION 16: Other information**

#### 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 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.



according to Regulation (EC) No 1907/2006

# ARC 988(E) Parl A, color grey and red

Revision date: 11.07.2019

H411 Toxic to a

Toxic to aquatic life with long lasting effects. Harmful to aquatic life with long lasting effects.

### **Further Information**

H412

This information is based solely on data privided by suppliers of the materials used, not on the mixture itself. No warranty is expressed or implied regarding the suitability of the product for the user's particular purpose. The user must make their own determination as to suitability.

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

Page 18 of 18