

according to Regulation (EC) No 1907/2006

ARC SD4i(E) Part A

Revision date: 27.10.2023 Page 1 of 17

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

1.1. Product identifier

ARC SD4i(E) Part A

UFI: GUTN-QP54-6DR7-964A

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

Use of the substance/mixture

ARC Polymer Composite. This is the resin component of two part system using ARC SD4i (Part B) and mixed to provide chemical protection for storage tanks.

Uses advised against

No data 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

Contact person: eu-sds@chesterton.com Telephone: +49 89 99 65 46 - 0

E-mail: 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 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

Reaction mass of 2,2'-[methylenebis(4,1-phenyleneoxymethylene)]dioxirane and [2-({ 2-[4-

(oxiran-2-ylmethoxy)benzyl]phenoxy} methyl)oxirane and [2,2'-

[methylenebis(2,1-phenyleneoxymethylene)]dioxirane

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

Signal word: Warning



according to Regulation (EC) No 1907/2006

ARC SD4i(E) Part A

Revision date: 27.10.2023 Page 2 of 17

Pictograms:





Hazard statements

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P272 Contaminated work clothing should not be allowed out of the workplace.

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 soap and 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

EUH211 Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe

spray or mist.

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 SD4i(E) Part A

Revision date: 27.10.2023 Page 3 of 17

Hazardous components

CAS No	Chemical name					
	EC No	Index No	REACH No			
	Classification (Regulation (EC) No	1272/2008)				
9003-36-5	Reaction mass of 2,2'-[methylenebis(4,1-phenyleneoxymethylene)]dioxirane and [2-({ 2-[4-(oxiran-2-ylmethoxy)benzyl]phenoxy} methyl)oxirane and [2,2'-[methylenebis(2,1-phenyleneoxymethylene)]dioxirane					
	701-263-0		01-2119454392-40			
	Skin Irrit. 2, Skin Sens. 1, Aquatic (Chronic 2; H315 H317 H411				
13463-67-7	titanium dioxide		1 - < 5 %			
	236-675-5	022-006-00-2	01-2119489379-17			
	Carc. 2; H351					
25068-38-6	epoxy resin (number average mole (epichlorhydrin)	cular weight <= 700), reaction produ	ct: bisphenol-A-	< 1 %		
	500-033-5	603-074-00-8	01-2119456619-26			
	Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1, Aquatic Chronic 2; H315 H319 H317 H411					

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	701-263-0	Reaction mass of 2,2'-[methylenebis(4,1-phenyleneoxymethylene)]dioxirane and [2-({ 2-[4-(oxiran-2-ylmethoxy)benzyl]phenoxy} methyl)oxirane and [2,2'-[methylenebis(2,1-phenyleneoxymethylene)]dioxirane	35 - < 40 %		
	dermal: LD50 =	dermal: LD50 = > 2000 mg/kg; oral: LD50 = > 5000 mg/kg			
13463-67-7	236-675-5	titanium dioxide	1 - < 5 %		
	oral: LD50 = >	2000 mg/kg			
25068-38-6	500-033-5	epoxy resin (number average molecular weight <= 700), reaction product: bisphenol-A-(epichlorhydrin)	< 1 %		
	Skin Irrit. 2; H315: >= 5 - 100 Eye Irrit. 2; H319: >= 5 - 100				

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). First aider: Pay attention to self-protection! Remove affected person from the danger area and lay down.

After inhalation

Remove casualty to fresh air and keep warm and at rest. If breathing is irregular or stopped, administer artificial respiration.



according to Regulation (EC) No 1907/2006

ARC SD4i(E) Part A

Revision date: 27.10.2023 Page 4 of 17

After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Remove contaminated, saturated clothing immediately. In case of skin irritation, consult a physician.

After contact with eyes

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

Remove contact lenses, if present and easy to do. Continue rinsing.

After ingestion

If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. Let 1 glass of water be drunken in little sips (dilution effect).

Do NOT induce vomiting.

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

Causes skin and eye irritation.

Causes skin irritation.

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

5.3. Advice for firefighters

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

In case of fire: Wear self-contained breathing apparatus.

Special protective equipment for firefighters: Protective clothing.

Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Dispose of waste according to applicable legislation.

Use water spray jet to protect personnel and to cool endangered containers.



according to Regulation (EC) No 1907/2006

ARC SD4i(E) Part A

Revision date: 27.10.2023 Page 5 of 17

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General advice

Avoid contact with skin, eyes and clothes.

Take off contaminated clothing and wash it before reuse.

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

Personal protection equipment: see section 8

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.

Avoid dust formation. Do not breathe dust.

Advice on general occupational hygiene

Work in well-ventilated zones or use proper respiratory protection. Avoid contact with skin, eyes and clothes. Use protective skin cream before handling the product. Remove contaminated, saturated clothing immediately. When using do not eat, drink, smoke, sniff. 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. Only wear fitting, comfortable and clean protective clothing. 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.

Hints on joint storage

Keep away from:

Food and feedingstuffs



according to Regulation (EC) No 1907/2006

ARC SD4i(E) Part A

Revision date: 27.10.2023 Page 6 of 17

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
409-21-2	Silicon carbide, respirable dust	-	3		TWA (8 h)	
13463-67-7	Titanium dioxide, respirable dust	-	4		TWA (8 h)	



according to Regulation (EC) No 1907/2006

ARC SD4i(E) Part A

Revision date: 27.10.2023 Page 7 of 17

DNEL/DMEL values

CAS No	Substance			
DNEL type		Exposure route	Effect	Value
409-21-2	Silicon carbide			
Worker DNE	L, acute	inhalation	systemic	94 mg/m³
Consumer D	NEL, acute	inhalation	systemic	23 mg/m³
Consumer D	NEL, acute	dermal	systemic	200 mg/kg bw/day
Consumer D	NEL, acute	oral	systemic	13 mg/kg bw/day
,				
9003-36-5	Reaction mass of 2,2'-[methylenebis(4,1-pheny (oxiran-2-ylmethoxy)benzyl]phenoxy} methyl)ox [methylenebis(2,1-phenyleneoxymethylene)]dio	irane and [2,2'-	nd [2-({ 2-[4-	
Worker DNE	L, long-term	inhalation	systemic	29,39 mg/m³
Worker DNE	L, long-term	dermal	systemic	104,15 mg/kg bw/day
Worker DNE	L, long-term	inhalation	local	0,0083 mg/m³
Consumer D	NEL, long-term	inhalation	systemic	8,7 mg/m³
Consumer D	NEL, long-term	dermal	systemic	62,5 mg/kg bw/day
Consumer D	NEL, long-term	oral	systemic	6,25 mg/kg bw/day
13463-67-7	titanium dioxide			
Worker DNE	L, long-term	inhalation	local	1,25 mg/m³
Consumer D	NEL, long-term	oral	systemic	700 mg/kg bw/day
25068-38-6	epoxy resin (number average molecular weight	<= 700), reaction product: bisp	henol-A-(epichlorhyd	drin)
Worker DNE	L, long-term	inhalation	systemic	12,25 mg/m³
Worker DNE	L, acute	inhalation	systemic	12,25 mg/m³
Worker DNE	L, long-term	dermal	systemic	8,33 mg/kg bw/day
Worker DNE	L, acute	dermal	systemic	8,33 mg/kg bw/day
Consumer DNEL, long-term		dermal	systemic	3,571 mg/kg bw/day
Consumer D	NEL, acute	dermal	systemic	3,571 mg/kg bw/day
Consumer D	NEL, long-term	oral	systemic	0,75 mg/kg bw/day
Consumer D	NEL, acute	oral	systemic	0,75 mg/kg bw/day
,				

Print date: 27.10.2023



according to Regulation (EC) No 1907/2006

ARC SD4i(E) Part A

Revision date: 27.10.2023 Page 8 of 17

PNEC values

CAS No	Substance	
Environmental	compartment	Value
9003-36-5	Reaction mass of 2,2'-[methylenebis(4,1-phenyleneoxymethylene)]dioxirane and [2-({ 2-[4-(oxiran-2-ylmethoxy)benzyl]phenoxy} methyl)oxirane and [2,2'-[methylenebis(2,1-phenyleneoxymethylene)]dioxirane	
Freshwater		0,003 mg/l
Freshwater (in	termittent releases)	0,025 mg/l
Marine water		0 mg/l
Freshwater se	diment	0,294 mg/kg
Marine sedime	nt	0,029 mg/kg
Micro-organisr	ns in sewage treatment plants (STP)	10 mg/l
Soil		0,237 mg/kg
25068-38-6	epoxy resin (number average molecular weight <= 700), reaction product: bisphenol-A-(epichlo	orhydrin)
Freshwater		0,006 mg/l
Marine water		0,001 mg/l
Freshwater se	diment	0,996 mg/kg
Marine sedime	nt	0,1 mg/kg
Secondary poisoning 11 mg/kg		
Soil		0,196 mg/kg

8.2. Exposure controls

Appropriate engineering controls

Provide adequate ventilation as well as local exhaustion at critical locations. Avoid dust formation. Knock down dust with water spray jet.

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 min

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.



according to Regulation (EC) No 1907/2006

ARC SD4i(E) Part A

Revision date: 27.10.2023 Page 9 of 17

Skin protection

Chemical protection clothing

Respiratory protection

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

Thermal hazards

No data available

Environmental exposure controls

Section 6: Accidental Release Measures

Section 12: Ecological Information (non-mandatory)

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: viscous
Colour: qrey / blue

Test method

Melting point/freezing point:

Boiling point or initial boiling point and

No data available

No data available

boiling range:

Flammability

Solid/liquid:

Flash point:

Decomposition temperature:

PH-Value:

No data available

No data available

No data available

not applicable

Water solubility:

practically insoluble

Solubility in other solvents

No information available.

Density: 1,89 g/cm³

Relative vapour density: > 1 (Air=1)

9.2. Other information

Information with regard to physical hazard classes

Self-ignition temperature

Solid: No data available
Gas: No data available

Oxidizing properties

No information available.

Other safety characteristics

Evaporation rate: < 1 (Ether=1

Viscosity / dynamic: 110.000 mPa·s

(at 25 °C)

Further Information



according to Regulation (EC) No 1907/2006

ARC SD4i(E) Part A

Revision date: 27.10.2023 Page 10 of 17

No information available.

SECTION 10: Stability and reactivity

10.1. Reactivity

Information is given in subsection 10.3., 10.5

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

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
- Chlorine

Oxygen

10.6. Hazardous decomposition products

Hazardous decomposition products

- Carbon monoxide,
- aldehydes,
- Gases/vapours, toxic.

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.

ATEmix calculated

ATE (oral) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) 3613 mg/l



according to Regulation (EC) No 1907/2006

ARC SD4i(E) Part A

Revision date: 27.10.2023 Page 11 of 17

CAS No	Chemical name						
	Exposure route	Dose		Species	Source	Method	
9003-36-5	Reaction mass of 2,2'-[methylenebis(4,1-phenyleneoxymethylene)]dioxirane and [2-({ 2-[4-(oxiran-2-ylmethoxy)benzyl]phenoxy} methyl)oxirane and [2,2'-[methylenebis(2,1-phenyleneoxymethylene)]dioxirane						
	oral	LD50 > 50 mg/kg	000	Rat	Study report (1988)	OECD Guideline 401	
	dermal	LD50 > 20 mg/kg	000	Rat	Study report (1988)	OECD Guideline 402	
13463-67-7	titanium dioxide						
	oral	LD50 > 20 mg/kg	000	Rat	Study report (1996)	OECD Guideline 401	

Irritation and corrosivity

Causes skin irritation.

Serious eye damage/eye irritation: Based on available data, the classification criteria are not met.

Sensitising effects

May cause an allergic skin reaction. (Reaction mass of 2,2'-

[methylenebis(4,1-phenyleneoxymethylene)]dioxirane and [2-({ 2-[4-(oxiran-2-ylmethoxy)benzyl]phenoxy} methyl)oxirane and [2,2'-

[methylenebis(2,1-phenyleneoxymethylene)]dioxirane; epoxy resin (number average molecular weight <= 700), reaction product: bisphenol-A-(epichlorhydrin))

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.

11.2. Information on other hazards

Endocrine disrupting properties

No data available

SECTION 12: Ecological information

12.1. Toxicity

Toxic to aquatic life with long lasting effects.



according to Regulation (EC) No 1907/2006

ARC SD4i(E) Part A

Revision date: 27.10.2023 Page 12 of 17

CAS No	Chemical name							
	Aquatic toxicity	Dose		[h] [d]	Species	Source	Method	
9003-36-5	Reaction mass of 2,2'-[methylenebis(4,1-phenyleneoxymethylene)]dioxirane and [2-({ 2-[4-(oxiran-2-ylmethoxy)benzyl]phenoxy} methyl)oxirane and [2,2'-[methylenebis(2,1-phenyleneoxymethylene)]dioxirane							
	Acute fish toxicity	LC50 mg/l	> 1000		Oncorhynchus mykiss	Study report (1998)	OECD Guideline 203	
	Acute algae toxicity	ErC50 mg/l	> 1,8	72 h	Raphidocelis subcapitata	Study report (1993)	OECD Guideline 201	
	Acute crustacea toxicity	EL50 mg/l	> 1000	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	
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 the re	
	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	
25068-38-6	epoxy resin (number ave	age molecu	lar weight <=	700), re	action product: bispheno	I-A-(epichlorhydrin)		
	Acute algae toxicity	ErC50 mg/l	> 100	72 h	Pseudokirchneriella subcapitata	Study report (2007)	OECD Guideline 201	
	Crustacea toxicity	NOEC	0,3 mg/l	21 d	Daphnia magna	Study report (1984)	OECD Guideline 211	

12.2. Persistence and degradability

No information available.

12.3. Bioaccumulative potential



according to Regulation (EC) No 1907/2006

ARC SD4i(E) Part A

Revision date: 27.10.2023 Page 13 of 17

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
9003-36-5	Reaction mass of 2,2'-[methylenebis(4,1-phenyleneoxymethylene)]dioxirane and [2-({ 2-[4-(oxiran-2-ylmethoxy)benzyl]phenoxy} methyl)oxirane and [2,2'-[methylenebis(2,1-phenyleneoxymethylene)]dioxirane	2,7
25068-38-6	epoxy resin (number average molecular weight <= 700), reaction product: bisphenol-A-(epichlorhydrin)	>= 2,64

BCF

CAS No	Chemical name	BCF	Species	Source
9003-36-5	Reaction mass of 2,2'- [methylenebis(4,1-phenyleneoxymethyl ene)]dioxirane and [2-({ 2-[4-(oxiran-2-ylmethoxy)benzyl]phenoxy} methyl)oxirane and [2,2'- [methylenebis(2,1-phenyleneoxymethyl ene)]dioxirane	150		Other company data (
13463-67-7	titanium dioxide	> 0,47 - < 3,19	Artemia salina	REACh Registration D
25068-38-6	epoxy resin (number average molecular weight <= 700), reaction product: bisphenol-A-(epichlorhydrin)	31		Study report (2010)

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. 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



according to Regulation (EC) No 1907/2006

ARC SD4i(E) Part A

Revision date: 27.10.2023 Page 14 of 17

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
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



according to Regulation (EC) No 1907/2006

ARC SD4i(E) Part A

Revision date: 27.10.2023 Page 15 of 17

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: (epoxy resin)

14.6. Special precautions for user

No information available.

14.7. Maritime transport in bulk according to IMO instruments

No information available.

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:

Reaction mass of 2,2'-[methylenebis(4,1-phenyleneoxymethylene)]dioxirane and [2-({ 2-[4-

(oxiran-2-ylmethoxy)benzyl]phenoxy} methyl)oxirane and [2,2'-

[methylenebis(2,1-phenyleneoxymethylene)]dioxirane

titanium dioxide

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

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)



according to Regulation (EC) No 1907/2006

ARC SD4i(E) Part A

Revision date: 27.10.2023 Page 16 of 17

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				
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 eve irritation.

H319 Causes serious eye irritation. H351 Suspected of causing cancer.

H411 Toxic to aquatic life with long lasting effects.

EUH211 Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe

spray or mist.

Further Information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.



according to Regulation (EC) No 1907/2006

ARC SD4i(E) Part A

Revision date: 27.10.2023 Page 17 of 17

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