

according to Regulation (EC) No 1907/2006

ARC 858(E) Part A

Revision date: 22.08.2022

Page 1 of 16

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

1.1. Product identifier

ARC 858(E) Part A

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

2,2'-[(1-Methylethyliden)bis(4,1-phenylenoxymethylen)]bisoxiran Reaction mass of 2,2'-[methylenebis(2,1-phenyleneoxymethylene)]bis(oxirane) and 2,2'-[methylenebis(4,1-phenyleneoxymethylene)]bis(oxirane) and 2-({2-[4-(oxiran-2-ylmethoxy)benzyl]phenoxy}methyl)oxirane

Signal word: Warning

Revision No: 1,11 - Replaces version: 1,10



according to Regulation (EC) No 1907/2006

ARC 858(E) Part A

Revision date: 22.08.2022

Pictograms:

Page 2 of 16



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

i recautionary stateme	
P264	Wash hands thoroughly after handling.
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.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P337+P317	If eye irritation persists: Get medical help.
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 cer	tain 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 858(E) Part A

Revision date: 22.08.2022

Page 3 of 16

Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (Regulation (EC) No	o 1272/2008)	•	
1675-54-3	3 2,2'-[(1-Methylethyliden)bis(4,1-phenylenoxymethylen)]bisoxiran			
	216-823-5	603-073-00-2	01-2119456619-26	
	Skin Irrit. 2, Eye Irrit. 2, Skin Sens	317 H411		
9003-36-5	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			

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	2,2'-[(1-Methylethyliden)bis(4,1-phenylenoxymethylen)]bisoxiran	30 - < 35 %
		C50 = ca. 24,6 mg/l (vapours); dermal: LD50 = > 2000 mg/kg; oral: LD50 = 19800 rrit. 2; H315: >= 5 - 100 Eye Irrit. 2; H319: >= 5 - 100	
9003-36-5	6-5 701-263-0 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		15 - < 20 %
	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	

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

Remove person to fresh air and keep comfortable for breathing. Call a doctor if you feel unwell.

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

```
Revision No: 1,11 - Replaces version: 1,10
```



according to Regulation (EC) No 1907/2006

ARC 858(E) Part A

Revision date: 22.08.2022

Page 4 of 16

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.

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

No information available.

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.

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

Remove persons to safety. Provide adequate ventilation. Safe handling: see section 7 Personal protection equipment: see section 8

Revision No: 1,11 - Replaces version: 1,10



according to Regulation (EC) No 1907/2006

ARC 858(E) Part A

Revision date: 22.08.2022

Page 5 of 16

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. Take up dust-free and set down dust-free.

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

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.

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

Revision No: 1,11 - Replaces version: 1,10



according to Regulation (EC) No 1907/2006

ARC 858(E) Part A

Revision date: 22.08.2022

Page 6 of 16

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 858(E) Part A

Revision date: 22.08.2022

Page 7 of 16

DNEL/DMEL values

CAS No	Substance			
DNEL type		Exposure route	Effect	Value
1675-54-3	2,2'-[(1-Methylethyliden)bis(4,1-phenylenoxym	nethylen)]bisoxiran		
Worker DNEL	_, long-term	inhalation	local	310 mg/m ³
Consumer D	NEL, long-term	inhalation	local	55 mg/m³
Worker DNEL	_, long-term	inhalation	systemic	4,93 mg/m ³
Worker DNEL	., long-term	dermal	systemic	0,75 mg/kg bw/day
Consumer DI	NEL, long-term	inhalation	systemic	0,87 mg/m³
Consumer DI	NEL, long-term	dermal	systemic	0,0893 mg/kg bw/day
Consumer DI	NEL, long-term	oral	systemic	0,5 mg/kg bw/day
409-21-2	Silicon carbide			
Worker DNEL	., 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 DI	NEL, acute	oral	systemic	13 mg/kg bw/day
,				
9003-36-5	Reaction mass of 2,2'-[methylenebis(4,1-phen (oxiran-2-ylmethoxy)benzyl]phenoxy} methyl)o [methylenebis(2,1-phenyleneoxymethylene)]di	xirane and [2,2'-	nd [2-({ 2-[4-	
Worker DNEL		inhalation	systemic	29,39 mg/m ³
Worker DNEL	., long-term	dermal	systemic	104,15 mg/kg bw/day
Worker DNEL	_, long-term	inhalation	local	0,0083 mg/m³
Consumer D	NEL, long-term	inhalation	systemic	8,7 mg/m³
Consumer DNEL, 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 DNEL	., long-term	inhalation	local	1,25 mg/m ³
Consumer DI	NEL, long-term	oral	systemic	700 mg/kg bw/day



according to Regulation (EC) No 1907/2006

ARC 858(E) Part A

Revision date: 22.08.2022

Page 8 of 16

PNEC values

CAS No	Substance				
Environmenta	l compartment	Value			
1675-54-3	2,2'-[(1-Methylethyliden)bis(4,1-phenylenoxymethylen)]bisoxiran				
Freshwater		0,006 mg/l			
Freshwater (i	ntermittent releases)	0,018 mg/l			
Marine water	Aarine water				
Freshwater se	ediment	0,341 mg/kg			
Marine sedim	ent	0,034 mg/kg			
Secondary po	11 mg/kg				
Micro-organis	10 mg/l				
Soil		0,065 mg/kg			
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 (i	ntermittent releases)	0,025 mg/l			
Marine water	0 mg/l				
Freshwater se	0,294 mg/kg				
Marine sedim	0,029 mg/kg				
Micro-organis	ms in sewage treatment plants (STP)	10 mg/l			
Soil		0,237 mg/kg			

8.2. Exposure controls

Appropriate engineering controls

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

Provide adequate ventilation. If handled uncovered, arrangements with local exhaust ventilation should be used if possible.

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

Revision No: 1,11 - Replaces version: 1,10



according to Regulation (EC) No 1907/2006

ARC 858(E) Part A

Revision date: 22.08.2022

Page 9 of 16

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

Wear suitable protective clothing.

Respiratory protection

Usually no personal respirative protection necessary.

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

Combination filtering device A-P3

Self-contained respirator (breathing apparatus)

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:	light grey		
Odour:	characteristic		
			Test method
Melting point/freezing point:		No data available	
Boiling point or initial boiling point and		No data available	
boiling range:			
Flammability			
Solid/liquid:		No data available	
Gas:		No data available	
Lower explosion limits:		not applicable	
Upper explosion limits:		not applicable	
Flash point:		> 249 °C	
Auto-ignition temperature:		No data available	
Decomposition temperature:		No data available	
pH-Value:		No data available	
Water solubility:		Immiscible	
Solubility in other solvents			
No information available.			
Partition coefficient n-octanol/water:		No data available	
Vapour pressure:		No data available	
Density:		1,6 g/cm³	
Relative vapour density:		>1	(air = 1)
9.2. Other information			

Revision No: 1,11 - Replaces version: 1,10



according to Regulation (EC) No 1907/2006

ARC 858(E) Part A Revision date: 22.08.2022 Page 10 of 16 Information with regard to physical hazard classes Explosive properties No information available. Self-ignition temperature No data available Solid: Gas: No data available Oxidizing properties No information available. Other safety characteristics Evaporation rate: <1 (Ether = 1)Solvent content: <1 Viscosity / dvnamic: No data available (at 25 °C) **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

Temperature > 300 °C

10.5. Incompatible materials

Acid, Oxidising agent

10.6. Hazardous decomposition products

Carbon monoxide, aldehydes, Acids, 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.

Revision No: 1,11 - Replaces version: 1,10



according to Regulation (EC) No 1907/2006

ARC 858(E) Part A

Revision date: 22.08.2022

CAS No Chemical name Exposure route Dose Species Source Method 1675-54-3 2,2'-[(1-Methylethyliden)bis(4,1-phenylenoxymethylen)]bisoxiran LD50 19800 Rabbit Publication (1958) Rabbits were orally oral gavaged with test ma mg/kg dermal LD50 > 2000 Rat Study report (2007) OECD Guideline 402 mg/kg inhalation (4 h) vapour LC50 Rat AMA Arch. Ind. Hyg. Rats were exposed to ca. 24,6 Occ. Med. 10: 61-68 8000 ppm of the tes mg/l 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 LD50 > 5000 OECD Guideline 401 oral Rat Study report (1988) mg/kg LD50 dermal > 2000 Rat Study report (1988) OECD Guideline 402 mg/kg 13463-67-7 titanium dioxide LD50 > 2000 Rat OECD Guideline 401 oral Study report (1996) mg/kg

Irritation and corrosivity

Causes skin irritation.

Causes serious eye irritation.

Sensitising effects

May cause an allergic skin reaction. (2,2'-[(1-Methylethyliden)bis(4,1-phenylenoxymethylen)]bisoxiran; 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)

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

Revision No: 1,11 - Replaces version: 1,10

Page 11 of 16



according to Regulation (EC) No 1907/2006

ARC 858(E) Part A

Revision date: 22.08.2022

Page 12 of 16

CAS No	Chemical name						
	Aquatic toxicity	Dose		[h] [d]	Species	Source	Method
1675-54-3	2,2'-[(1-Methylethyliden)b	is(4,1-pher	ylenoxymeth	ylen)]bis	oxiran		
	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	Raphidocelis subcapitata	Study report (2007)	OECD Guideline 201
	Acute crustacea toxicity	EC50	2,8 mg/l	48 h	Daphnia magna	REACh Registration Dossier	OECD Guideline 202
	Crustacea toxicity	NOEC	0,3 mg/l	21 d	Daphnia magna	REACh Registration Dossier	OECD Guideline 211
9003-36-5	Reaction mass of 2,2'-[me (oxiran-2-ylmethoxy)benz [methylenebis(2,1-phenyle	yl]phenoxy]	methyl)oxira	ne and [
	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

Revision No: 1,11 - Replaces version: 1,10



according to Regulation (EC) No 1907/2006

	ARC 858(E) Part A								
Revision date: 22.08.2022Page 13 of 16									
Ac	cute bacteria toxicity	(EC50 mg/l)	> 1000		activated sludge, domestic	REACh Registration Dossier	OECD Guideline 209		

12.2. Persistence and degradability

No information available.

CAS No	Chemical name						
	Method Value d Source						
	Evaluation						
1675-54-3	2,2'-[(1-Methylethyliden)bis(4,1-phenylenoxymethylen)]bisoxira	า					
	OECD 302B 12% 28						
	Not readily biodegradable (according to OECD criteria)						

12.3. Bioaccumulative potential

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
1675-54-3	2,2'-[(1-Methylethyliden)bis(4,1-phenylenoxymethylen)]bisoxiran	>= 2,64
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

BCF

CAS No	Chemical name	BCF	Species	Source
1675-54-3	2,2'- [(1-Methylethyliden)bis(4,1-phenylenoxy methylen)]bisoxiran	31		Study report (2010)
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

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

Revision No: 1,11 - Replaces version: 1,10



according to Regulation (EC) No 1907/2006

ARC 858(E) Part A

Revision date: 22.08.2022

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)
----------------	-----------

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):	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.
	(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)	
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):	9
14.4. Packing group:	III
Hazard label:	9

Revision No: 1,11 - Replaces version: 1,10

IRL - EN

©A. W. Chesterton Company, 2023 All Rights Reserved. ®Reg. US Patent and TM Office

Page 14 of 16



according to Regulation (EC) No 1907/2006

	ARC 858(E) Part A		
Revision date: 22.08.2022			Page 15 of 16
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:	(epoxy resin)	OUS SUBSTANCE, LIQUID, N.O.S.	
14.3. Transport hazard class(es):	9		
14.4. Packing group:			
Hazard label:	9		
Special Provisions: Limited quantity Passenger:	A97 A158 A197 A215		
Passenger LQ:	30 kg G 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:	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 regu	ations/legislation specific for the	substance or mixture	
EU regulatory information			
Restrictions on use (REACH, annex XVII):			
Entry 3, Entry 75			
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:			
2,2´-[(1-Methylethyliden)bis(4,1-phenylenoxymethylen)]bisoxiran 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	,, ······		

Revision No: 1,11 - Replaces version: 1,10



according to Regulation (EC) No 1907/2006

ARC 858(E) Part A

Revision date: 22.08.2022

Page 16 of 16

SECTION 16: Other information

Changes

This data sheet contains changes from the previous version in section(s): 2,4,5,6,7,8,9,11,14,15.

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) CAS: Chemical Abstracts Service (division of the American Chemical Society) GHS: Globally Harmonized System of Classification and Labelling of Chemicals CLP: Regulation on Classification, Labelling and Packaging of Substances and Mixtures, LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent EC50: Effectice concentration, 50 percent

DNEL: Derived No Effect Level

PNEC: Predicted No Effect Concentration

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

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

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