according to Regulation (EC) No. 1907/2006



ARALDITE® CRYSTAL RESIN

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 05.02.2019

 1.1
 26.01.2021
 400001021207
 Date of first issue: 05.02.2019

Print Date 13.05.2022

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

1.1 Product identifier

Trade name : ARALDITE® CRYSTAL RESIN

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

Use of the : Epoxy constituents

Substance/Mixture

1.3 Details of the supplier of the safety data sheet

Company : Huntsman Advanced Materials (Europe)BVBA

Address : Everslaan 45

3078 Everberg Belgium

Telephone : +41 61 299 20 41 Telefax : +41 61 299 20 40

E-mail address of person

responsible for the SDS

: Global_Product_EHS_AdMat@huntsman.com

1.4 Emergency telephone number

Emergency telephone number : EUROPE: +32 35 75 1234

France ORFILA: +33(0)145425959

ASIA: +65 6336-6011 China: +86 20 39377888 +86 532 83889090 India: + 91 22 42 87 5333

Australia: 1800 786 152 New Zealand: 0800 767 437 USA: +1/800/424.9300

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Skin irritation, Category 2 H315: Causes skin irritation.

Eye irritation, Category 2 H319: Causes serious eye irritation.

Skin sensitisation, Category 1 H317: May cause an allergic skin reaction.

Long-term (chronic) aquatic hazard,

Category 2

H411: Toxic to aquatic life with long lasting effects.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)



ARALDITE® CRYSTAL RESIN

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 05.02.2019

 1.1
 26.01.2021
 400001021207
 Date of first issue: 05.02.2019

Print Date 13.05.2022

Hazard pictograms





Signal word : Warning

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 : **Prevention:**

P261 Avoid breathing mist or vapours.
P264 Wash skin thoroughly after handling.
P273 Avoid release to the environment.

P280 Wear protective gloves/ eye protection/ face

protection.

Response:

P333 + P313 If skin irritation or rash occurs: Get medical

advice/ attention.

P391 Collect spillage.

Hazardous components which must be listed on the label:

2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane

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

2.3 Other hazards

This substance/mixture contains components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB).

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous components

Chemical name	CAS-No.	Classification	Concent
	EC-No.		ration
	Index-No. Registration number		(% w/w)

according to Regulation (EC) No. 1907/2006



ARALDITE® CRYSTAL RESIN

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 05.02.2019

 1.1
 26.01.2021
 400001021207
 Date of first issue: 05.02.2019

Print Date 13.05.2022

2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxir ane	1675-54-3 216-823-5 603-073-00-2 01-2119456619-26	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1; H317 Aquatic Chronic 2; H411 specific concentration limit Skin Irrit. 2; H315 >= 5 % Eye Irrit. 2; H319 >= 5 %	>= 70 - < 90
Reaction mass of 2,2'- [methylenebis(2, ,1- phenyleneoxymethylene)]bis(oxir ane) and 2,2'- [methylenebis(4, ,1- phenyleneoxymethylene)]bis(oxir ane) and 2-({2-[4-(oxiran-2, ylmethoxy)benzyl]phenoxy}meth yl)oxirane,	- - 01-2119454392-40	Skin Irrit. 2; H315 Skin Sens. 1; H317 Aquatic Chronic 2; H411	>= 2.5 - < 10
Terphenyl, hydrogenated	61788-32-7 262-967-7 01-2119488183-33	Aquatic Chronic 4; H413	>= 2.5 - < 10

For explanation of abbreviations see section 16.

Both 25068-38-6 and 1675-54-3 can be used to describe the epoxy resin which is produced through the reaction of bisphenol A and epichlorohydrin

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice : Move out of dangerous area.

Show this safety data sheet to the doctor in attendance.

Treat symptomatically.

Get medical attention if symptoms occur.

Protection of first-aiders : First Aid responders should pay attention to self-protection

and use the recommended protective clothing

If potential for exposure exists refer to Section 8 for specific

personal protective equipment.

Avoid inhalation, ingestion and contact with skin and eyes. No action shall be taken involving any personal risk or without

suitable training.

It may be dangerous to the person providing aid to give

mouth-to-mouth resuscitation.

If inhaled : If inhaled, remove to fresh air.

Get medical attention if symptoms occur.

In case of skin contact : If skin irritation persists, call a physician.

If on skin, rinse well with water. If on clothes, remove clothes.

according to Regulation (EC) No. 1907/2006



ARALDITE® CRYSTAL RESIN

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 05.02.2019

 1.1
 26.01.2021
 400001021207
 Date of first issue: 05.02.2019

Print Date 13.05.2022

In case of eye contact : Immediately flush eye(s) with plenty of water.

Remove contact lenses.

Keep eye wide open while rinsing.

If eye irritation persists, consult a specialist.

If swallowed : Keep respiratory tract clear.

Never give anything by mouth to an unconscious person.

If symptoms persist, call a physician.

4.2 Most important symptoms and effects, both acute and delayed

None known.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Water spray

Alcohol-resistant foam Carbon dioxide (CO2)

Dry chemical

Unsuitable extinguishing

media

Exercise caution when using a high volume water jet as it may

scatter and spread fire

5.2 Special hazards arising from the substance or mixture

Specific hazards during

firefighting

Do not allow run-off from fire fighting to enter drains or water

courses.

5.3 Advice for firefighters

Special protective equipment:

for firefighters

Wear self-contained breathing apparatus for firefighting if

necessary.

Specific extinguishing

methods

Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

Further information : Collect contaminated fire extinguishing water separately. This

must not be discharged into drains.

Fire residues and contaminated fire extinguishing water must

be disposed of in accordance with local regulations.

according to Regulation (EC) No. 1907/2006



ARALDITE® CRYSTAL RESIN

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 05.02.2019

 1.1
 26.01.2021
 400001021207
 Date of first issue: 05.02.2019

Print Date 13.05.2022

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment.

Refer to protective measures listed in sections 7 and 8.

6.2 Environmental precautions

Environmental precautions : Prevent product from entering drains.

Prevent further leakage or spillage if safe to do so.

If the product contaminates rivers and lakes or drains inform

respective authorities.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel,

acid binder, universal binder, sawdust).

Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For disposal considerations see section 13., See Section 1 for emergency contact information., For personal protection see section 8.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : Repeated or prolonged skin contact may cause skin irritation

and/or dermatitis and sensitisation of susceptible persons. Persons suffering from asthma, eczema or skin problems should avoid contact, including dermal contact, with this

product.

Do not breathe vapours/dust.

Avoid exposure - obtain special instructions before use.

Avoid contact with skin and eyes. For personal protection see section 8.

Smoking, eating and drinking should be prohibited in the

application area.

Dispose of rinse water in accordance with local and national

regulations.

Advice on protection against

fire and explosion

Normal measures for preventive fire protection.

Hygiene measures : When using do not eat or drink. When using do not smoke.

Wash hands before breaks and at the end of workday.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers

: Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully

resealed and kept upright to prevent leakage. Keep in properly

labelled containers.

according to Regulation (EC) No. 1907/2006



ARALDITE® CRYSTAL RESIN

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 05.02.2019

 1.1
 26.01.2021
 400001021207
 Date of first issue: 05.02.2019

Print Date 13.05.2022

Advice on common storage : For incompatible materials please refer to Section 10 of this

SDS.

Further information on

storage stability

: Stable under normal conditions.

Recommended storage

temperature

: 2 - 40 °C

7.3 Specific end use(s)

Specific use(s) : No data available

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Terphenyl,	61788-32-7	TWA	2 ppm	2017/164/EU
hydrogenated			19 mg/m3	
Further information	Indicative			
		STEL	5 ppm	2017/164/EU
			48 mg/m3	
Further information	Indicative			
		TWA	2 ppm	GB EH40
			19 mg/m3	
		STEL	5 ppm	GB EH40
			48 mg/m3	

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health effects	Value
2,2'-[(1- methylethylidene)bis(4, 1- phenyleneoxymethylen e)]bisoxirane	Workers	Inhalation	Long-term systemic effects	4.93 mg/m3
	Workers	Dermal	Long-term systemic effects	0.75 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	0.87 mg/m3
	Consumers	Dermal	Long-term systemic effects	0.0893 mg/kg bw/day
	Consumers	Oral	Long-term systemic effects	0.5 mg/kg bw/day
Terphenyl, hydrogenated	Workers	Inhalation	Long-term systemic effects	8.38 mg/m3

according to Regulation (EC) No. 1907/2006



ARALDITE® CRYSTAL RESIN

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 05.02.2019

 1.1
 26.01.2021
 400001021207
 Date of first issue: 05.02.2019

Print Date 13.05.2022

Workers	Inhalation	Long-term local effects	83.8 mg/m3
Workers	Dermal	Long-term systemic effects	46.3 mg/kg
Workers	Dermal	Long-term local effects	0.2 mg/m3
Consumers	Inhalation	Long-term systemic effects	2.5 mg/m3
Consumers	Inhalation	Long-term local effects	25 mg/m3
Consumers	Dermal	Long-term systemic effects	27.8 mg/kg
Consumers	Dermal	Long-term local effects	1.23 mg/m3
Consumers	Oral	Long-term systemic effects	0.3 mg/kg

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name		Environmental Compartment	Value
2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxira ne		Fresh water	0.006 mg/l
Remarks:	Assessme	ent Factors	·
		Marine water	0.001 mg/l
	Assessme	ent Factors	
		Fresh water sediment	0.341 mg/kg dry weight (d.w.)
Equilibriur		m method	
		Marine sediment	0.034 mg/kg dry weight (d.w.)
	Equilibriur	n method	
		Soil	0.065 mg/kg dry weight (d.w.)
	Equilibriur	m method	·
		Sewage treatment plant	10 mg/l
	Assessme	ent Factors	•
		Secondary Poisoning	11 mg/kg
Terphenyl, hydrogenated		Fresh water	0 mg/l
		Marine water	0 mg/l
		Intermittent use/release	0.001 mg/l
		Sewage treatment plant	10.3 mg/l
		Fresh water sediment	3.16 mg/kg
		Marine sediment	0.316 mg/kg
		Soil	0.631 mg/kg

according to Regulation (EC) No. 1907/2006



ARALDITE® CRYSTAL RESIN

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 05.02.2019

 1.1
 26.01.2021
 400001021207
 Date of first issue: 05.02.2019

Print Date 13.05.2022

Secondary Poisoning 2.22 mg/kg

8.2 Exposure controls

Personal protective equipment

Eye protection : Eye wash bottle with pure water

Tightly fitting safety goggles

Wear face-shield and protective suit for abnormal processing

problems.

Hand protection

Remarks : Chemical-resistant, impervious gloves complying with an

approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. The suitability for a specific workplace should be

discussed with the producers of the protective gloves.

Skin and body protection : Impervious clothing

Choose body protection according to the amount and

concentration of the dangerous substance at the work place.

Respiratory protection : Use respiratory protection unless adequate local exhaust

ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines.

Equipment should conform to EN 14387

Filter type : Combined particulates and organic vapour type (A-P)

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state : liquid

Colour : colourless

Odour : slight

Odour Threshold : No data is available on the product itself.

pH : substance/mixture is non-soluble (in water)

Melting point/freezing point : No data is available on the product itself.

: > 200 °C

Flash point : 176 °C

Method: Pensky-Martens closed cup

Evaporation rate : No data is available on the product itself.

Flammability (solid, gas) : No data is available on the product itself.

Burning rate : No data is available on the product itself.

according to Regulation (EC) No. 1907/2006



ARALDITE® CRYSTAL RESIN

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 05.02.2019

 1.1
 26.01.2021
 400001021207
 Date of first issue: 05.02.2019

Print Date 13.05.2022

Upper explosion limit / Upper

flammability limit

: No data is available on the product itself.

Lower explosion limit / Lower

flammability limit

: No data is available on the product itself.

Vapour pressure : No data is available on the product itself.

Relative vapour density : No data is available on the product itself.

Relative density : No data is available on the product itself.

Density : 1.15 g/cm3

Solubility(ies)

Water solubility : practically insoluble (20 °C)

Solubility in other solvents : No data is available on the product itself.

Partition coefficient: n-

octanol/water

: No data is available on the product itself.

Auto-ignition temperature : No data is available on the product itself.

Decomposition temperature : > 200 °C

Viscosity

Viscosity, dynamic : 18,000 - 45,000 mPa.s (25 °C)

Explosive properties : No data is available on the product itself.

Oxidizing properties : No data is available on the product itself.

9.2 Other information

No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions : No hazards to be specially mentioned.

10.4 Conditions to avoid

Conditions to avoid : None known.

10.5 Incompatible materials

according to Regulation (EC) No. 1907/2006



ARALDITE® CRYSTAL RESIN

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 05.02.2019

 1.1
 26.01.2021
 400001021207
 Date of first issue: 05.02.2019

Print Date 13.05.2022

Materials to avoid : None known.

10.6 Hazardous decomposition products

No hazardous decomposition products are known.

SECTION 11: Toxicological information

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

Acute toxicity

Components:

2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane:

Acute oral toxicity : LD50 (Rat, female): > 2,000 mg/kg
Method: OECD Test Guideline 420

Method: OECD Test Guideline 420

Assessment: The substance or mixture has no acute oral

toxicity

Remarks: No mortality observed at this dose.

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

:

Acute oral toxicity : LD50 (Rat, male and female): > 5,000 mg/kg

Method: OECD Test Guideline 401

Terphenyl, hydrogenated:

Acute oral toxicity : LD50 (Rat, male and female): > 10,000 mg/kg

Method: OECD Test Guideline 401

Components:

Terphenyl, hydrogenated:

Acute inhalation toxicity : LC50 (Rat, male and female): > 4.7 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Method: OECD Test Guideline 403

GLP: yes

Assessment: The substance or mixture has no acute

inhalation toxicity

Components:

2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane:

Acute dermal toxicity : LD50 (Rat, male and female): > 2,000 mg/kg

Method: OECD Test Guideline 402

Assessment: The substance or mixture has no acute dermal

toxicity

according to Regulation (EC) No. 1907/2006



ARALDITE® CRYSTAL RESIN

Version Revision Date: SDS Number: Date of last issue: 05.02.2019 400001021207 1.1 26.01.2021 Date of first issue: 05.02.2019

Print Date 13.05.2022

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

: LD50 (Rat, male and female): > 2,000 mg/kg Acute dermal toxicity

Method: OECD Test Guideline 402

Assessment: The substance or mixture has no acute dermal

toxicity

Terphenyl, hydrogenated:

Acute dermal toxicity : LD50 (Rabbit, male and female): > 2,000 mg/kg

Method: OECD Test Guideline 402

GLP: no

Assessment: The substance or mixture has no acute dermal

toxicity

Acute toxicity (other routes of : No data available

administration)

Skin corrosion/irritation

Components:

2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane:

Species: Rabbit Exposure time: 4 h

Assessment: Irritating to skin. Method: OECD Test Guideline 404

Result: Irritating to skin.

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

Species: Rabbit

Method: OECD Test Guideline 404

Result: Irritating to skin.

Terphenyl, hydrogenated:

Species: Rabbit Exposure time: 24 h Method: Other guidelines Result: No skin irritation

Serious eye damage/eye irritation

Components:

2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane:

Species: Rabbit

Assessment: Irritating to eyes. Method: OECD Test Guideline 405

Result: Irritating to eyes.

according to Regulation (EC) No. 1907/2006



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ARALDITE® CRYSTAL RESIN

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 05.02.2019

 1.1
 26.01.2021
 400001021207
 Date of first issue: 05.02.2019

Print Date 13.05.2022

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

:

Species: Rabbit

Method: OECD Test Guideline 405

Result: No eye irritation

Terphenyl, hydrogenated:

Species: Rabbit Method: Draize Test Result: No eye irritation

GLP: no

Respiratory or skin sensitisation

Components:

2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane:

Test Type: Local lymph node assay (LLNA)

Exposure routes: Skin Species: Mouse

Method: OECD Test Guideline 429

Result: The product is a skin sensitiser, sub-category 1B.

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

.

Exposure routes: Skin Species: Mouse

Method: OECD Test Guideline 429

Result: May cause sensitisation by skin contact.

Terphenyl, hydrogenated: Exposure routes: Skin Species: Humans

Method: Patch Test 24 Hrs.

Result: Does not cause skin sensitisation.

Components:

Terphenyl, hydrogenated:

Assessment: Does not cause skin sensitisation.

Germ cell mutagenicity

Components:

2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane:

Genotoxicity in vitro : Test Type: In vitro mammalian cell gene mutation test

Test system: mouse lymphoma cells

Metabolic activation: without metabolic activation

Result: positive

: Test Type: reverse mutation assay

according to Regulation (EC) No. 1907/2006



ARALDITE® CRYSTAL RESIN

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 05.02.2019

 1.1
 26.01.2021
 400001021207
 Date of first issue: 05.02.2019

Print Date 13.05.2022

Test system: Salmonella typhimurium

Metabolic activation: with and without metabolic activation Method: Mutagenicity (Salmonella typhimurium - reverse

mutation assay) Result: negative

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

•

Genotoxicity in vitro : Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: positive

: Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 473

Result: positive

: Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 476

Result: positive

Terphenyl, hydrogenated:

Genotoxicity in vitro

: Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 482

Result: negative

: Test Type: Ames test

Metabolic activation: with and without metabolic activation

Result: negative

: Metabolic activation: with and without metabolic activation

Method: In vitro mammalian cell gene mutation test

Result: negative

Components:

2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane:

Genotoxicity in vivo : Test Type: in vivo assay

Test species: Mouse (male)

Cell type: Germ

Application Route: Oral Dose: 3333, 10000 mg/kg

Result: negative

Test Type: gene mutation test Test species: Rat (male)

according to Regulation (EC) No. 1907/2006



ARALDITE® CRYSTAL RESIN

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 05.02.2019

 1.1
 26.01.2021
 400001021207
 Date of first issue: 05.02.2019

Print Date 13.05.2022

Cell type: Somatic
Application Route: Oral

Dose: 50,250,500,1000 mg/kg bw/day Method: OECD Test Guideline 488

Result: negative

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

:

Genotoxicity in vivo : Cell type: Somatic

Application Route: Oral Exposure time: 48 h Dose: 2000 mg/kg

Method: OECD Test Guideline 474

Result: negative

Cell type: Somatic Application Route: Oral Dose: 2000 mg/kg

Method: OECD Test Guideline 486

Result: negative

Terphenyl, hydrogenated:

Genotoxicity in vivo : Test species: Rat

Cell type: Bone marrow

Dose: 250, 1250, 2500 mg/kg bw Method: OECD Test Guideline 475

Result: negative

Germ cell mutagenicity-

Assessment

: No data available

Carcinogenicity

Components:

2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane:

Species: Rat, male Application Route: Oral Exposure time: 24 month(s)

Dose: 0, 2, 15, or 100 mg/kg bw/day Frequency of Treatment: 7 days/week

No observed adverse effect level: 15 mg/kg bw/day

Method: OECD Test Guideline 453

Result: negative

Target Organs: Digestive organs

Species: Mouse, male Application Route: Dermal Exposure time: 24 month(s)

Dose: 0, 0.1, 10, 100 mg/kg bw/day

according to Regulation (EC) No. 1907/2006



ARALDITE® CRYSTAL RESIN

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 05.02.2019

 1.1
 26.01.2021
 400001021207
 Date of first issue: 05.02.2019

Print Date 13.05.2022

Frequency of Treatment: 3 days/week

No-observed-effect level: 0.1 mg/kg body weight

Method: OECD Test Guideline 453

Result: negative

Target Organs: Digestive organs

Species: Rat, female Application Route: Dermal Exposure time: 24 month(s)

Dose: 0.1, 100, 1000 mg/kg bw/day Frequency of Treatment: 5 days/week

No-observed-effect level: 100 mg/kg body weight

Method: OECD Test Guideline 453

Result: negative

Species: Rat, female Application Route: Oral Exposure time: 24 month(s)

Dose: 0, 2, 15, or 100 mg/kg bw/day Frequency of Treatment: 7 days/week

No observed adverse effect level: 100 mg/kg bw/day

Method: OECD Test Guideline 453

Result: negative

Target Organs: Digestive organs

Species: Rat, females Application Route: Oral Exposure time: 24 month(s)

Dose: 0, 2, 15, or 100 mg/kg bw/day Frequency of Treatment: 7 days/week No-observed-effect level: 2 mg/kg bw/day

Method: OECD Test Guideline 453

Result: negative

Target Organs: Digestive organs

Carcinogenicity - : No data available

Assessment

Reproductive toxicity

Components:

2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane: Effects on fertility : Test Type: Two-generation study

Species: Rat, male and female

Application Route: Oral

Dose: 0, 50, 180, 540 or 750 milligram per kilogram

Duration of Single Treatment: 238 d Frequency of Treatment: 1 daily

General Toxicity - Parent: No-observed-effect level: 540

mg/kg body weight

General Toxicity F1: No-observed-effect level: 750 mg/kg

body weight

Symptoms: No adverse effects Method: OECD Test Guideline 416

Result: No effects on fertility and early embryonic

according to Regulation (EC) No. 1907/2006



ARALDITE® CRYSTAL RESIN

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 05.02.2019

 1.1
 26.01.2021
 400001021207
 Date of first issue: 05.02.2019

Print Date 13.05.2022

development were detected.

Reaction mass of 2,2'-[methylenebis(2,1-phenyleneoxymethylene)]bis(oxirane) and 2,2'-[methylenebis(4,1-phenyleneoxymethylene)]bis(oxirane) and 2-($\{2-[4-(oxiran-2ymethoxy)benzy\}]$ phenoxy}methyl)oxirane

Species: Rat, male and female

Application Route: Oral

Method: OECD Test Guideline 416

Result: No effects on fertility and early embryonic

development were detected.

Terphenyl, hydrogenated:

Test Type: Two-generation study Species: Rat, male and female

Application Route: Oral

Frequency of Treatment: 7 days/week

General Toxicity - Parent: No observed adverse effect level:

1,000 ppm

General Toxicity F1: No observed adverse effect level: 1,000

ppm

Method: OECD Test Guideline 416

Result: Animal testing did not show any effects on fertility.

GLP: yes

Components:

2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane:

Effects on foetal : Species: Rabbit, female development : Application Route: Dermal

Dose: 0, 30, 100 or 300 milligram per kilogram

Duration of Single Treatment: 28 d Frequency of Treatment: 1 daily

General Toxicity Maternal: No observed adverse effect level:

30 mg/kg body weight

Developmental Toxicity: No observed adverse effect level:

300 mg/kg body weight Method: Other guidelines Result: No teratogenic effects

Test Type: Pre-natal Species: Rabbit, female Application Route: Oral

Dose: 0, 20, 60 or 180 milligram per kilogram

Duration of Single Treatment: 13 d Frequency of Treatment: 1 daily

General Toxicity Maternal: No observed adverse effect level:

60 mg/kg body weight

Developmental Toxicity: No observed adverse effect level:

180 mg/kg body weight

Method: OECD Test Guideline 414 Result: No teratogenic effects

Test Type: Pre-natal Species: Rat, female

according to Regulation (EC) No. 1907/2006



ARALDITE® CRYSTAL RESIN

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 05.02.2019

 1.1
 26.01.2021
 400001021207
 Date of first issue: 05.02.2019

Print Date 13.05.2022

Application Route: Oral

Dose: 0, 60, 180 and 540 milligram per kilogram

Duration of Single Treatment: 10 d Frequency of Treatment: 1 daily

General Toxicity Maternal: No observed adverse effect level:

180 mg/kg body weight

Developmental Toxicity: No observed adverse effect level: >

540 mg/kg body weight

Method: OECD Test Guideline 414 Result: No teratogenic effects

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

Species: Rabbit, female Application Route: Dermal

General Toxicity Maternal: No observed adverse effect level:

30 mg/kg body weight Result: No teratogenic effects

Terphenyl, hydrogenated:

Species: Rat, female Application Route: Oral

Dose: 125, 500, 1500 mg/kg bw/d Frequency of Treatment: 1 daily

General Toxicity Maternal: No observed adverse effect level:

125 mg/kg body weight

Embryo-foetal toxicity: No observed adverse effect level: 500

mg/kg body weight

Method: OECD Test Guideline 414

GLP: yes

Components:

Terphenyl, hydrogenated:

Reproductive toxicity -

Assessment

: No evidence of adverse effects on sexual function and fertility,

or on development, based on animal experiments.

STOT - single exposure

No data available

STOT - repeated exposure

No data available

Repeated dose toxicity

Components:

2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane:

Species: Rat, male and female

NOAEL: 50 mg/kg

Application Route: oral (gavage)

Exposure time: 14 WeeksNumber of exposures: 7 d

Dose: 0, 50, 250, 1000 mg/kg/day

according to Regulation (EC) No. 1907/2006



ARALDITE® CRYSTAL RESIN

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 05.02.2019

 1.1
 26.01.2021
 400001021207
 Date of first issue: 05.02.2019

Print Date 13.05.2022

Method: OECD Test Guideline 408

Species: Rat, male and female

NOAEL: >= 10 mg/kg

Application Route: Skin contact

Exposure time: 13 WeeksNumber of exposures: 5 d

Dose: 0, 10, 100, 1000 mg/kg/day Method: OECD Test Guideline 411

Species: Mouse, male NOAEL: 100 mg/kg

Application Route: Skin contact

Exposure time: 13 WeeksNumber of exposures: 3 d

Dose: 0, 1, 10, 100 mg/kg/day Method: OECD Test Guideline 411

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

:

Species: Rat, male and female

NOAEL: 250 mg/kg

Application Route: Ingestion

Exposure time: 13 WeeksNumber of exposures: 7 d

Method: Subchronic toxicity

Terphenyl, hydrogenated: Species: Rat, male and female

NOAEL: 12 mg/kg LOAEL: 120 mg/kg

Application Route: oral (feed)

Exposure time: 14 weeks Number of exposures: 7 days/week

Method: OECD Test Guideline 408

Species: Rat, male and female

NOAEL: 0.1 mg/l LOAEL: 0.5 mg/l

Application Route: Inhalation

Exposure time: 90 days Number of exposures: 6 hours/day, 5 days/week (67 n

Dose: 0, 10, 100, 500 mg/m³ Method: OECD Test Guideline 413

Species: Rabbit, male and female

NOAEL: 2,000 mg/kg Application Route: Dermal

Exposure time: 21 days Number of exposures: 6 hours/day, 5 days/week

Dose: 125, 500, 2000 mg/kg bw/d

Method: Subacute toxicity Target Organs: Skin

Components:

Terphenyl, hydrogenated:

Repeated dose toxicity - : No adverse effect has been observed in chronic toxicity

Assessment tests.

according to Regulation (EC) No. 1907/2006



ARALDITE® CRYSTAL RESIN

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 05.02.2019

 1.1
 26.01.2021
 400001021207
 Date of first issue: 05.02.2019

Print Date 13.05.2022

Aspiration toxicity

No data available

11.2 Information on other hazards

Endocrine disrupting properties

Product:

Assessment : The substance/mixture does not contain components

considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at

levels of 0.1% or higher.

Experience with human exposure

General Information: No data available

Inhalation: No data available

Skin contact: No data available

Eye contact: No data available

Ingestion: No data available

Toxicology, Metabolism, Distribution

No data available

Neurological effects

No data available

Further information

Ingestion: No data available

SECTION 12: Ecological information

12.1 Toxicity

Components:

2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane:

according to Regulation (EC) No. 1907/2006



ARALDITE® CRYSTAL RESIN

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 05.02.2019

 1.1
 26.01.2021
 400001021207
 Date of first issue: 05.02.2019

Print Date 13.05.2022

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 2 mg/l

Exposure time: 96 h

Method: OECD Test Guideline 203

Toxicity to daphnia and other

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 1.8 mg/l

Exposure time: 48 h Test Type: static test

Test substance: Fresh water Method: OECD Test Guideline 202

Toxicity to algae/aquatic

plants

EC50 : 11 mg/l Exposure time: 72 h Test Type: static test

Test substance: Fresh water Method: EPA-660/3-75-009

NOEC: 4.2 mg/l Exposure time: 72 h Test Type: static test

Test substance: Fresh water Method: EPA-660/3-75-009

Toxicity to microorganisms : IC50 (activated sludge): > 100 mg/l

Exposure time: 3 h Test Type: static test

Test substance: Fresh water

Toxicity to daphnia and other

aquatic invertebrates (Chronic toxicity)

: NOEC: 0.3 mg/l Exposure time: 21 d

Species: Daphnia magna (Water flea)

Test Type: semi-static test
Test substance: Fresh water
Method: OECD Test Guideline 211

Ecotoxicology Assessment

Chronic aquatic toxicity : Toxic to aquatic life with long lasting effects.

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

:

Toxicity to fish : LC50 (Fish): 2.54 mg/l

Exposure time: 96 h

Method: Calculation method

Toxicity to daphnia and other

aquatic invertebrates

: EC50 (Daphnia magna (Water flea)): 2.55 mg/l

Exposure time: 48 h

Method: Calculation method

Toxicity to algae/aquatic

plants

: EC50 (Selenastrum capricornutum (green algae)): 1.8 mg/l

Exposure time: 72 h
Test Type: static test

Test substance: Fresh water
Method: OECD Test Guideline 201

according to Regulation (EC) No. 1907/2006



ARALDITE® CRYSTAL RESIN

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 05.02.2019

 1.1
 26.01.2021
 400001021207
 Date of first issue: 05.02.2019

Print Date 13.05.2022

Toxicity to microorganisms : IC50 (activated sludge): > 100 mg/l

Exposure time: 3 h
Test Type: static test

Test substance: Fresh water

Toxicity to daphnia and other

aquatic invertebrates (Chronic toxicity)

: NOEC: 0.3 mg/l Exposure time: 21 d

Species: Daphnia magna (Water flea)

Test Type: semi-static test
Test substance: Fresh water
Method: OECD Test Guideline 211

Remarks: Information given is based on data obtained from

similar substances.

Terphenyl, hydrogenated:

Toxicity to fish : LC50 :> 100 mg/l

Exposure time: 96 h

Toxicity to algae/aquatic

plants

: EC50 (Pseudokirchneriella subcapitata (green algae)): 56 mg/l

Exposure time: 96 h

Method: OECD Test Guideline 201

Toxicity to microorganisms : NOEC (activated sludge): 103 mg/l

Exposure time: 3 h Test Type: static test

Method: OECD Test Guideline 209

GLP: yes

Toxicity to daphnia and other

aquatic invertebrates (Chronic toxicity)

: NOELR: < 1 mg/l

Exposure time: 21 d

Species: Daphnia magna (Water flea)

Test Type: semi-static test

Method: OECD Test Guideline 211

GLP: yes

Ecotoxicology Assessment

Acute aquatic toxicity : This product has no known ecotoxicological effects.

Chronic aquatic toxicity : May cause long lasting harmful effects to aquatic life.

12.2 Persistence and degradability

Components:

2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane:

Biodegradability : Test Type: aerobic

Inoculum: activated sludge, non-adapted

Concentration: 20 mg/l

Result: Not readily biodegradable.

Biodegradation: 5 % Exposure time: 28 d

Method: OECD Test Guideline 301F

Stability in water : Degradation half life (DT50): 4.83 d (25 °C)

pH: 4

according to Regulation (EC) No. 1907/2006



ARALDITE® CRYSTAL RESIN

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 05.02.2019

 1.1
 26.01.2021
 400001021207
 Date of first issue: 05.02.2019

Print Date 13.05.2022

Method: OECD Test Guideline 111

Remarks: Fresh water

Degradation half life (DT50): 7.1 d (25 °C)

pH: 9

Method: OECD Test Guideline 111

Remarks: Fresh water

Degradation half life (DT50): 3.58 d (25 °C)

pH: 7

Method: OECD Test Guideline 111

Remarks: Fresh water

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

:

Biodegradability : Inoculum: activated sludge

Concentration: 3 mg/l Result: Not biodegradable Biodegradation: ca. 0 % Exposure time: 28 d

Method: Directive 67/548/EEC Annex V, C.4.E.

12.3 Bioaccumulative potential

Components:

2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane: Bioaccumulation : Bioconcentration factor (BCF): 31

Remarks: Does not bioaccumulate.

Partition coefficient: n- : log Pow: 3.242 (25 °C)

octanol/water pH: 7.1

Method: OECD Test Guideline 117

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

:

Bioaccumulation : Species: Fish

Bioconcentration factor (BCF): 150 Remarks: Does not bioaccumulate.

Partition coefficient: n- : log Pow: 2.7 - 3.6

octanol/water Method: OECD Test Guideline 117

Terphenyl, hydrogenated:

Partition coefficient: n- : log Pow: 6.5

octanol/water

12.4 Mobility in soil

Components:

2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)] bisoxirane:

Distribution among : Koc: 445

according to Regulation (EC) No. 1907/2006



ARALDITE® CRYSTAL RESIN

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 05.02.2019

 1.1
 26.01.2021
 400001021207
 Date of first issue: 05.02.2019

Print Date 13.05.2022

environmental compartments

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

:

Distribution among : Koc: 4460

environmental compartments Method: OECD Test Guideline 121

12.5 Results of PBT and vPvB assessment

Product:

Assessment : This substance/mixture contains components considered to

be either persistent, bioaccumulative and toxic (PBT), or very

persistent and very bioaccumulative (vPvB)..

12.6 Endocrine disrupting properties

Product:

Assessment : The substance/mixture does not contain components

considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at

levels of 0.1% or higher.

12.7 Other adverse effects

Product:

Additional ecological

information

An environmental hazard cannot be excluded in the event of

unprofessional handling or disposal.

Toxic to aquatic life with long lasting effects.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : The product should not be allowed to enter drains, water

courses or the soil.

Do not contaminate ponds, waterways or ditches with

chemical or used container.

Send to a licensed waste management company.

Dispose of as hazardous waste in compliance with local and

national regulations.

Dispose of contents/ container to an approved waste disposal

plant.

Contaminated packaging : Empty remaining contents.

Dispose of as unused product. Do not re-use empty containers.

SECTION 14: Transport information

IATA

according to Regulation (EC) No. 1907/2006



ARALDITE® CRYSTAL RESIN

Version Revision Date: SDS Number: Date of last issue: 05.02.2019 400001021207 1.1 26.01.2021 Date of first issue: 05.02.2019

: UN 3082

Print Date 13.05.2022

14.1 UN number or ID

number

14.2 UN proper shipping

name

: Environmentally hazardous substance, liquid, n.o.s.

(BISPHENOL A EPOXY RESIN)

14.3 Transport hazard

class(es)

: 9

964

14.4 Packing group : 111

Labels Miscellaneous

Packing instruction (cargo

aircraft)

Packing instruction : 964

(passenger aircraft)

IATA (Passenger)

Environmentally hazardous yes

IATA (Cargo)

Environmentally hazardous : yes

IMDG

14.1 UN number or ID

number

: UN 3082

14.2 UN proper shipping

name

: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(BISPHENOL A EPOXY RESIN)

14.3 Transport hazard

class(es)

14.4 Packing group Ш Labels 9

EmS Code : F-A, S-F

14.5 Environmental hazards

Marine pollutant : yes

ADR

14.1 UN number or ID

: UN 3082

number

14.2 UN proper shipping

: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

name

N.O.S.

(BISPHENOL A EPOXY RESIN)

14.3 Transport hazard

class(es)

: 9

14.4 Packing group : 111 Labels : 9

14.5 Environmental hazards

Environmentally hazardous : yes

RID

14.1 UN number or ID : UN 3082

number

14.2 UN proper shipping

: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

name

(BISPHENOL A EPOXY RESIN)

14.3 Transport hazard : 9

according to Regulation (EC) No. 1907/2006



ARALDITE® CRYSTAL RESIN

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 05.02.2019

 1.1
 26.01.2021
 400001021207
 Date of first issue: 05.02.2019

Print Date 13.05.2022

class(es)

14.4 Packing group : III Labels : 9 **14.5 Environmental hazards**

Environmentally hazardous : yes

14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

REACH - List of substances subject to authorisation : Not applicable

(Annex XIV)

REACH - Candidate List of Substances of Very High : Terphenyl, hydrogenated

Concern for Authorisation (Article 59).

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

E2 ENVIRONMENTAL

HAZARDS

Other regulations:

Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

The components of this product are reported in the following inventories:

DSL : All components of this product are on the Canadian DSL

AIIC : On the inventory, or in compliance with the inventory

NZIoC : Not in compliance with the inventory

ENCS : Not in compliance with the inventory

KECI : On the inventory, or in compliance with the inventory

PICCS : On the inventory, or in compliance with the inventory

IECSC : On the inventory, or in compliance with the inventory

TCSI : On the inventory, or in compliance with the inventory

according to Regulation (EC) No. 1907/2006



ARALDITE® CRYSTAL RESIN

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 05.02.2019

 1.1
 26.01.2021
 400001021207
 Date of first issue: 05.02.2019

Print Date 13.05.2022

TSCA : All substances listed as active on the TSCA inventory

Inventories

AICS (Australia), AIIC (Australia), DSL (Canada), IECSC (China), ENCS (Japan), KECI (Korea), NZIOC (New Zealand), PICCS (Philippines), TCSI (Taiwan), TSCA (United States of America (USA))

15.2 Chemical safety assessment

Chemical Safety Assessments for all substances in this product are either Complete or Not applicable.

SECTION 16: Other information

Full text of H-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.

H413 : May cause long lasting harmful effects to aquatic life.

Full text of other abbreviations

Aquatic Chronic : Long-term (chronic) aquatic hazard

Eye Irrit. : Eye irritation
Skin Irrit. : Skin irritation
Skin Sens. : Skin sensitisation

2017/164/EU : Europe. Commission Directive 2017/164/EU establishing a

fourth list of indicative occupational exposure limit values

GB EH40 : UK. EH40 WEL - Workplace Exposure Limits

2017/164/EU / STEL : Short term exposure limit 2017/164/EU / TWA : Limit Value - eight hours

GB EH40 / TWA : Long-term exposure limit (8-hour TWA reference period)
GB EH40 / STEL : Short-term exposure limit (15-minute reference period)

Further information

Classification of the mixture: 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

While the information and recommendations in this publication are to the best of our knowledge, information and belief accurate at the date of publication, NOTHING HEREIN IS TO BE CONSTRUED AS A WARRANTY, EXPRESS OR OTHERWISE.

according to Regulation (EC) No. 1907/2006



ARALDITE® CRYSTAL RESIN

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 05.02.2019

 1.1
 26.01.2021
 400001021207
 Date of first issue: 05.02.2019

Print Date 13.05.2022

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THE PRODUCT MAY PRESENT HAZARDS AND SHOULD BE USED WITH CAUTION. WHILE CERTAIN HAZARDS ARE DESCRIBED IN THIS PUBLICATION, NO GUARANTEE IS MADE THAT THESE ARE THE ONLY HAZARDS THAT EXIST.

Hazards, toxicity and behaviour of the products may differ when used with other materials and are dependent upon the manufacturing circumstances or other processes. Such hazards, toxicity and behaviour should be determined by the user and made known to handlers, processors and end users.

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