according to Regulation (EC) No. 1907/2006

ARALDITE® 2011 RESIN

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

1.1 Product identifier	
Trade name	: ARALDITE® 2011 RESIN
Unique Formula Identifier (UFI)	: UWE2-J0Q1-A00T-K90C

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

Use of the	:	Adhesives
Substance/Mixture		

1.3 Details of the supplier of the safety data sheet

Company Address	 Huntsman Advanced Materials (Europe)BVB. Everslaan 45 3078 Everberg Belgium 	A
Telephone Telefax	: +41 61 299 20 41 : +41 61 299 20 40	
E-mail address of person responsible for the SDS	: Global_Product_EHS_AdMat@huntsman.com	m

1.4 Emergency telephone number

Emergency telephone number	 Berlin: 0049 30 19 24 0 & 0049 30 30 68 6 7 11 Bonn: 0049 228 19 27 0 & 0049 228 28 7 3 32 11 Erfurt: 0049 361 73 07 30 Freiburg: 0049 761 16 24 0 Göttingen: 0049 51 19 24 0 & 0049 551 38 31 80 Homburg: 0049 6841 19 24 0 Mainz: 0049 6131 19 24 0 & 0049 6131 23 24 66 München: 0049 89 19 24 0 Nürnberg: 0049 911 39 8 2 45 1 EUROPE: +32 35 75 1234 France ORFILA: +33(0)145425959 ASIA: +65 6336-6011 China: +86 20 39377888 +86 532 83889090
	+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.

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itation, Category 2		H319: Causes serious eye irritation.
ensitisation, Category	1	H317: May cause an allergic skin reaction.
ic aquatic toxicity, Cat	egory 2	H411: Toxic to aquatic life with long lasting effects.
lements		
ing (REGULATION (EC) No 1272/20	008)
d pictograms		
word	: Warning	
d statements	: H315 H317 H319 H411	Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Toxic to aquatic life with long lasting effects.
utionary statements	: Preventio P261 P264 P273 P280 Response P333 + P3 P391	Avoid breathing mist or vapours. Wash skin thoroughly after handling. Avoid release to the environment. Wear protective gloves/ eye protection/ face protection.
	27.09.2021 itation, Category 2 ensitisation, Category c aquatic toxicity, Cat lements ing (REGULATION (I d pictograms word d statements	27.09.2021 4000010159 itation, Category 2 ensitisation, Category 1 c aquatic toxicity, Category 2 lements ing (REGULATION (EC) No 1272/20 d pictograms word statements d statements d state

Hazardous components which must be listed on the label:

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

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

bisphenol A - epoxy resins, number average MW >700 - <1100

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

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

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SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concent ration (% w/w)
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
Formaldehyde, oligomeric reaction products with 1-chloro- 2,3-epoxypropane and phenol (BPFDGE)	- - 01-2119454392-40	Skin Irrit. 2; H315 Skin Sens. 1; H317 Aquatic Chronic 2; H411	>= 2,5 - < 10
Bisphenol A - epoxy resins, number average MW >700 - <1100	25068-38-6 Polymer	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1; H317	>= 1 - < 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	Treat symptomat	data sheet to the doctor in attendance.
Protection of first-aiders	and use the reco If potential for ex personal protecti Avoid inhalation, No action shall b suitable training.	ingestion and contact with skin and eyes. the taken involving any personal risk or without rous to the person providing aid to give

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If inhaled			ove to fresh air. ttention if symptoms occur.	
In case of skin contact :		If on skin, rins	If skin irritation persists, call a physician. If on skin, rinse well with water. If on clothes, remove clothes.	
In ca	se of eye contact	Remove conta Keep eye wide	ush eye(s) with plenty of water. act lenses. e open while rinsing. persists, consult a specialist.	
lf swa	allowed	5	bry tract clear. ything by mouth to an unconscious person. ersist, 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 E	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.
	Hazardous combustion products	:	Carbon oxides Halogenated compounds Carbon dioxide (CO2) Carbon monoxide
5.3 A	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



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must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

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 cor	ntai	nment 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.



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7.2 Cond	litions for safe storage	, including any inco	mpatibilities
Requirements for storage areas and containers		place. Contain	r tightly closed in a dry and well-ventilated ers which are opened must be carefully cept upright to prevent leakage. Keep in properly ners.
Adv	ice on common storage	: For incompatib SDS.	ble materials please refer to Section 10 of this

Further information on storage stability	:	Stable under normal conditions.
7.3 Specific end use(s)		
Specific use(s)	:	No data available

Storage class (TRGS 510) : 10, Combustible liquids

Recommended storage : 2 - 40 °C

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

temperature

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Silica, amorphous, fumed, crystfree	112945-52- 5	AGW (Inhalable fraction)	4 mg/m3 (Silica)	DE TRGS 900
Further information	When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child			

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



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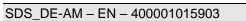
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Bis(2-ethylhexyl) adipate	Workers	Inhalation	Long-term systemic effects	17,8 mg/m3
	Workers	Dermal	Long-term systemic effects	25,5 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	4,4 mg/m3
	Consumers	Dermal	Long-term systemic effects	13 mg/kg bw/day
	Consumers	Oral	Long-term systemic effects	1,7 mg/kg bw/day
Formaldehyde, oligomeric reaction products with 1-chloro- 2,3-epoxypropane and phenol (BPFDGE)	Workers	Dermal	Acute local effects	0,0083 mg/cm2
	Workers	Dermal	Long-term systemic effects	104,15 mg/kg
	Workers	Inhalation	Long-term systemic effects	29,39 mg/m3
	Consumers	Dermal	Long-term systemic effects	62,5 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	8,7 mg/m3
	Consumers	Oral	Long-term systemic effects	6,25 mg/kg bw/day
Silica, amorphous, fumed, crystfree	Workers	Inhalation	Long-term systemic effects	4 mg/m3

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
	Marine water	0,001 mg/l
	Fresh water sediment	0,341 mg/kg dry weight (d.w.)
	Marine sediment	0,034 mg/kg dry weight (d.w.)
	Soil	0,065 mg/kg dry weight (d.w.)
	Sewage treatment plant	10 mg/l
	Secondary Poisoning	11 mg/kg
Bis(2-ethylhexyl) adipate	Soil	0,865 mg/kg dry weight (d.w.)
Formaldehyde, oligomeric reaction products with 1-chloro- 2,3-epoxypropane and phenol	Fresh water	0,003 mg/l





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(BPFDGE)		
Remarks:	Assessment Factors	
	Marine water	0 mg/l
	Assessment Factors	
	Intermittent use/	/release 0,0254 mg/l
	Assessment Factors	I
	Fresh water sed	liment 0,294 mg/kg dry weight (d.w.)
	Equilibrium method	
	Marine sedimen	t 0,0294 mg/kg di weight (d.w.)
	Equilibrium method	I
	Soil	0,237 mg/kg dry weight (d.w.)
	Equilibrium method	
	Sewage treatme	ent plant 10 mg/l
	Assessment Factors	

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.	g		
Hand protection Material Break through time	butyl-rubber > 8 h			
Material	Solvent-resistant gloves (butyl-rubber)			
Material Break through time	Nitrile rubber 10 - 480 min			
Material	Neoprene gloves			
Remarks	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handlin 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	ŧ.		



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Respiratory protection		ventilation is p that exposures	y protection unless adequate local exhaust rovided or exposure assessment demonstrates are within recommended exposure guidelines buld conform to EN 14387
Fil	ter type	: Combined par	ticulates and organic vapour type (A-P)

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	: paste
Colour	: transparent
Odour	: slight
Odour Threshold	: No data is available on the product itself.
рН	: ca. 6 (20 °C) Concentration: 500 g/l
Melting point/freezing point	: No data available
Boiling point	: >200 °C
Flash point	 210 °C Method: Pensky-Martens closed cup 260 °C Method: Cleveland open cup
Flammability (solid, gas)	: No data is available on the product itself.
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	: <0,001 hPa (20 °C)
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 (25 °C)
Solubility(ies) Water solubility	: practically insoluble (20 °C)
Solubility in other solvents	: No data is available on the product itself.
Partition coefficient: n-	: No data is available on the product itself.



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octano	ol/water		
Auto-i	gnition temperature	: No data is av	ailable on the product itself.
Decor	mposition temperature	: > 200 °C	
Viscos Vis	sity cosity, dynamic	: 30 000 - 50 0	00 mPa.s (25 °C)
9.2 Other	information		
Explo	sive properties	: No data is av	ailable on the product itself.
Oxidiz	zing properties	: No data is av	ailable on the product itself.
Burnir	ng rate	: No data is av	ailable on the product itself.
Evapo	pration rate	: No data is av	ailable on the product itself.
Molec	ular weight	: No data avail	able

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.
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10.4 Conditions to avoid

Conditions to avoid : N	lone known.
-------------------------	-------------

10.5 Incompatible materials

Materials to avoid	: Strong acids
	Strong bases
	Strong oxidizing agents

10.6 Hazardous decomposition products

Hazardous decomposition	: carbon dioxide
products	carbon monoxide
	Halogenated compounds



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SECTION 11: Toxicological information

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

Acute toxicity	
Components:	Las las su condicto e Millar las s
Acute oral toxicity	henyleneoxymethylene)]bisoxirane: LD50 (Rat, female): > 2 000 mg/kg Method: OECD Test Guideline 420 Assessment: The substance or mixture has no acute oral toxicity Remarks: No mortality observed at this dose.
Formaldehyde, oligomeric reaction (BPFDGE):	products with 1-chloro-2,3-epoxypropane and phenol
Acute oral toxicity :	LD50 (Rat, male and female): > 5 000 mg/kg Method: OECD Test Guideline 401
	er average MW >700 - <1100: LD50 (Rat, female): > 2 000 mg/kg Method: OECD Test Guideline 420 Assessment: The substance or mixture has no acute oral toxicity
Acute inhalation toxicity :	No data available
<u>Components:</u>	
Acute dermal toxicity :	henyleneoxymethylene)]bisoxirane: LD50 (Rat, male and female): > 2 000 mg/kg Method: OECD Test Guideline 402 Assessment: The substance or mixture has no acute dermal toxicity
Formaldehyde, oligomeric reaction (BPFDGE):	products with 1-chloro-2,3-epoxypropane and phenol
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
·	er average MW >700 - <1100: LD50 (Rat, male and female): > 2 000 mg/kg Method: OECD Test Guideline 402 Assessment: The substance or mixture has no acute dermal toxicity

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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.

Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol (BPFDGE): Species: Rabbit Method: OECD Test Guideline 404 Result: Irritating to skin.

bisphenol A - epoxy resins, number average MW >700 - <1100: Method: OECD Test Guideline 404 Result: 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.

Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol (BPFDGE): Species: Rabbit Method: OECD Test Guideline 405 Result: No eye irritation

bisphenol A - epoxy resins, number average MW >700 - <1100: Species: Rabbit Method: OECD Test Guideline 405 Result: Eye irritation

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.

(BPFDGE):

Exposure routes: Skin Species: Mouse

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Test Type: Local lymph node assay (LLNA)



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Method: OECD Test Guideline 429 Result: May cause sensitisation by skin contact.		
bisphenol A - epoxy resins, nu Exposure routes: Skin Species: Guinea pig Method: OECD Test Guideline Result: May cause sensitisatio		
Assessment:	No data available	
Germ cell mutagenicity		
<u>Components:</u> 2,2'-[(1-methylethylidene)bis(4 Genotoxicity in vitro	 ,1-phenyleneoxymethylene)]bisoxirane: 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 Test system: Salmopolla typhimurium 	
	Test system: Salmonella typhimurium Metabolic activation: with and without metabolic activation Method: Mutagenicity (Salmonella typhimurium - reverse mutation assay) Result: negative	
Formaldehyde, oligomeric read (BPFDGE):	ction products with 1-chloro-2,3-epoxypropane and phenol	
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	

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

Genotoxicity in vitro	:	Metabolic activation: with and without metabolic activation
		Method: OECD Test Guideline 476

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		Result: Positive	e results were obtained in some in vitro tests.
			ation: with and without metabolic activation Test Guideline 471 e
2,2'-[(oonents: 1-methylethylidene)bis coxicity in vivo	s(4,1-phenyleneoxyme : Test Type: in v Test species: N Cell type: Gern Application Ro Dose: 3333, 10 Result: negativ	ivo assay /ouse (male) n ute: Oral 0000 mg/kg
		Test species: F Cell type: Som Application Roi Dose: 50,250,5	atic ute: Oral 500,1000 mg/kg bw/day 9 Test Guideline 488
		eaction products with	1-chloro-2,3-epoxypropane and phenol
(BPFI Genot	oxicity in vivo	: Cell type: Som Application Rou Exposure time: Dose: 2000 mg Method: OECD Result: negativ	ute: Oral 48 h J/kg D Test Guideline 474
		Cell type: Som Application Ro Dose: 2000 mg Method: OECD Result: negativ	ute: Oral J/kg) Test Guideline 486
	enol A - epoxy resins, toxicity in vivo	: Cell type: Gern Application Ro	n ute: Oral) Test Guideline 478
			- 41-

Cell type: Somatic Application Route: Oral Dose: 0 - 5000 mg/kg



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Method: OPPTS 870.5395 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 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

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No-observed-effect level: 2 mg/kg bw/day Method: OECD Test Guideline 453 Result: negative Target Organs: Digestive organs

bisphenol A - epoxy resins, number average MW >700 - <1100: Species: Rat, male and female Application Route: Oral Exposure time: 24 month(s) Dose: 15 mg/kg Frequency of Treatment: 7 daily Method: OECD Test Guideline 453 Result: negative

Carcinogenicity -Assessment : No data available

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
	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: 54 mg/kg body weight General Toxicity F1: No-observed-effect level: 750 mg/ body weight Symptoms: No adverse effects Method: OECD Test Guideline 416

Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol (BPFDGE):

Test Type: Two-generation study Species: Rat, male and female Application Route: Oral Dose: 0, 50, 180, 540 or 750 mg/kg/ Duration of Single Treatment: 238 d General Toxicity - Parent: No-observed-effect level: 750 General Toxicity F1: No-observed-effect level: 750 mg/kg body weight General Toxicity F2: NOAEL: 750 mg/kg body weight Method: OECD Test Guideline 416 Result: No effects on fertility and early embryonic development were detected. GLP: yes Remarks: Information given is based on data obtained from similar substances.

bisphenol A - epoxy resins, number average MW >700 - <1100:

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Species: Rat, male and female Application Route: Oral General Toxicity - Parent: No-observed-effect level: 750 mg/kg body weight General Toxicity F1: No-observed-effect level: 750 mg/kg body weight Method: OECD Test Guideline 416 Result: No effects on fertility and early embryonic development were detected.

Components:

<u>components:</u>		
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	
	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	
bisphenol A - epoxy resins, numb		
	Species: Rabbit, female	
	Application Route: Dermal	
	General Toxicity Maternal: No observed adverse effect level:	



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

Species: Rabbit, female Application Route: Oral General Toxicity Maternal: No observed adverse effect level: 60 mg/kg body weight Method: OECD Test Guideline 414 Result: No teratogenic effects

Species: Rat, female Application Route: Oral General Toxicity Maternal: No observed adverse effect level: 180 mg/kg body weight Method: OECD Test Guideline 414 Result: No teratogenic effects

Reproductive toxicity -Assessment

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 Method: OECD Test Guideline 408

: No data available

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

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Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol (BPFDGE): Species: Rat, male and female NOAEL: 250 mg/kg Application Route: Ingestion Exposure time: 13 WeeksNumber of exposures: 7 d

Method: Subchronic toxicity

bisphenol A - epoxy resins, number average MW >700 - <1100: Species: Rat, male and female NOAEL: 50 mg/kg Application Route: Ingestion Exposure time: 14 WeeksNumber of exposures: 7 d Method: Subchronic toxicity

Species: Rat, male and female NOEL: 10 mg/kg Application Route: Skin contact Exposure time: 13 WeeksNumber of exposures: 5 d Method: Subchronic toxicity

Repeated dose toxicity - : No data available Assessment

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

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Inges	tion:	No data available	
Τοχία	cology, Metabolisr	n. Distribution	
	ata available		
Neur	ological effects		
No da	ata available		
Furth	ner information		
Inges	stion:	No data available	

SECTION 12: Ecological information

12.1 Toxicity

Components:	nhanulanaayu mathulana)]hiaayirana
	phenyleneoxymethylene)]bisoxirane: 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



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		Test substance: Method: OECD	Fresh water Test Guideline 211
	toxicology Assessment onic aquatic toxicity	: Toxic to aquatic	life with long lasting effects.
	naldehyde, oligomeric rea FDGE) :	action products with 1	-chloro-2,3-epoxypropane and phenol
Tox	icity to fish	: LC50 (Fish): 2,5 Exposure time: Test substance: Method: Calcula	96 h Fresh water
	icity to daphnia and other atic invertebrates	: EC50 (Daphnia Exposure time: Method: Calcula	
Tox plan	icity to algae/aquatic ts	Exposure time: Test Type: stati Analytical monit Test substance	c test oring: yes
Tox	icity to microorganisms	: IC50 (activated Exposure time: Test Type: stati Analytical monit Test substance: GLP: no	c test oring: no
aqua	icity to daphnia and other atic invertebrates ronic toxicity)	Test Type: sem Analytical monit Test substance: Method: OECD GLP: yes	21 d ia magna (Water flea) i-static test oring: no Fresh water Test Guideline 211 nation given is based on data obtained from
	henol A - epoxy resins, n	-	
Тох	icity to fish	Exposure time: Test Type: static Test substance:	c test
	icity to daphnia and other atic invertebrates	Exposure time: Test Type: stati Test substance:	c test



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Toxi plan	city to algae/aquatic ts	mg/l Exposure time:	astrum capricornutum (green algae)): > 100 : 72 h 9 Test Guideline 201
12.2 Pers	sistence and degradab	ility	
	nponents:		
	[(1-methylethylidene)bis egradability	: Test Type: aer Inoculum: activ Concentration: Result: Not rea Biodegradation Exposure time	obic vated sludge, non-adapted 20 mg/l dily biodegradable. 1: 5 %
Stab	ility in water	pH: 4	alf life (DT50): 4,83 d (25 °C) 9 Test Guideline 111 h water
		pH: 9	alf life (DT50): 7,1 d (25 °C)) Test Guideline 111 h water
		pH: 7	alf life (DT50): 3,58 d (25 °C)) Test Guideline 111 h water
	naldehyde, oligomeric re ⁻ DGE) :	action products with	1-chloro-2,3-epoxypropane and phenol
•	egradability	: Test Type: aer Inoculum: activ Concentration: Result: Not bio Biodegradation Exposure time: Method: Direct	rated sludge 3 mg/l degradable 1: ca. 0 %
bispl	henol A - epoxy resins, r	number average MW	>700 - <1100:
Biod	egradability	Concentration: Result: Not bio Biodegradatior Exposure time	age (STP effluent) 20 mg/l degradable i: 5 %
Stab	ility in water	: Degradation ha pH: 4	alf life (DT50): 4,83 d (25 °C)



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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

12.3 Bioaccumulative potential

Components:

	 -phenyleneoxymethylene)]bisoxirane: Bioconcentration factor (BCF): 31 Remarks: Does not bioaccumulate.
Partition coefficient: n- octanol/water	: log Pow: 3,242 (25 °C) pH: 7,1 Method: OECD Test Guideline 117
Formaldehyde, oligomeric reacti (BPFDGE):	on products with 1-chloro-2,3-epoxypropane and phenol
Bioaccumulation	: Species: Fish Bioconcentration factor (BCF): 150 Remarks: Does not bioaccumulate.

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Partition coefficient: n- : octanol/water	log Pow: 2,7 - 3,6 Method: OECD Test Guideline 117 GLP: yes
--	---

bisphenol A - epoxy resins, number average MW >700 - <1100:			
Bioaccumulation :		Species: Fish	
		Bioconcentration factor (BCF): 31	
		Remarks: Does not bioaccumulate.	

12.4 Mobility in soil

Components:

2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane: Distribution among : Koc: 445 environmental compartments
Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol
(BPFDGE): Distribution among : Koc: 4460
environmental compartments Method: OECD Test Guideline 121
oisphenol A - epoxy resins, number average MW >700 - <1100: Distribution among : Koc: 445 environmental compartments



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12.5 Results of PBT and vPvB assessment

Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher..

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	VOther 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	:	Dispose of contents and container in accordance with all local, regional, national and international regulations. Do not dispose of waste into sewer. Do not contaminate ponds, waterways or ditches with chemical or used container.
Contaminated packaging	:	Empty remaining contents. Dispose of as unused product. Do not re-use empty containers.

SECTION 14: Transport information

14.1 UN number or ID number				
ADN	:	UN 3082		
ADR	:	UN 3082		
RID	:	UN 3082		
IMDG	:	UN 3082		
ΙΑΤΑ	:	UN 3082		
14.2 UN proper shipping name				

. . .

ADN

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



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			(BISPHENOL A RESIN)	EPOXY RESIN, BISPHENOL F EPOXY
ADR		:	N.O.S.	ALLY HAZARDOUS SUBSTANCE, LIQUID,
			RESIN)	EPOXY RESIN, BISPHENOL F EPOXY
RID		:	N.O.S.	ALLY HAZARDOUS SUBSTANCE, LIQUID,
			RESIN)	EPOXY RESIN, BISPHENOL F EPOXY
IMDG		:	N.O.S.	ALLY HAZARDOUS SUBSTANCE, LIQUID, EPOXY RESIN, BISPHENOL F EPOXY
			RESIN)	
ΙΑΤΑ		:		hazardous substance, liquid, n.o.s. EPOXY RESIN, BISPHENOL F EPOXY
4.3 Trans	port hazard class(es)			
ADN		:	9	
ADR		:	9	
RID		:	9	
IMDG		:	9	
ΙΑΤΑ		:	9	
4.4 Packi	ng group			
ADN				
	ig group	:		
	fication Code	:	M6 90	
Labels		:	9	
ADR				
	ig group	:		
	fication Code	÷	M6 90	
Labels		÷	9	
Tunne	l restriction code	:	(-)	
RID				
	ig group fication Code	:	III M6	
	d Identification Number	•	90	
Labels		:	9	
IMDG				
	ig group	:		
Labels EmS C		:	9 F-A, S-F	
	Cargo)	•	, -	
	ig instruction (cargo	:	964	

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	king instruction (LQ) king group	: Y964 : III : Miscellaneous	
Pac (pas Pac	A (Passenger) king instruction senger aircraft) king instruction (LQ) king group els	: 964 : Y964 : III : Miscellaneous	
14.5 Env	vironmental hazards		
ADI Env	N ironmentally hazardous	: yes	
ADI Env	R ironmentally hazardous	: yes	
RID Env	ironmentally hazardous	: yes	
IMD Mar	I G ine pollutant	: yes	
	A (Passenger) ironmentally hazardous	: yes	
	A (Cargo) ironmentally hazardous	: yes	

14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

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 (Annex XIV)	: Not applicable
REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).	: This product does not contain substances of very high concern (Regulation (EC) No 1907/2006 (REACH), Article 57).

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

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Water hazard class		: WGK 2 obviously hazardous to water			
(Germany)		Classification according to AwSV, Annex 1 (5.2)			
TA Luft	t List (Germany)	Not applicable	ostances:		

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	: On the inventory, or in compliance with the inventory		
ENCS	: On the inventory, or 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		
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))



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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.			
Full text of other abbreviations				
Aquatic Chronic	: Chronic aquatic toxicity			
Eye Irrit.	: Eye irritation			
Skin Irrit.	: Skin irritation			
Skin Sens.	: Skin sensitisation			
DE TRGS 900	: Germany. TRGS 900 - Occupational exposure limit values.			
DE TRGS 900 / AGW	: Time Weighted Average			
Further information				

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

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IN ALL CASES, IT IS THE RESPONSIBILITY OF THE USER TO DETERMINE THE APPLICABILITY OF SUCH INFORMATION AND RECOMMENDATIONS AND THE SUITABILITY OF ANY PRODUCT FOR ITS OWN PARTICULAR PURPOSE.

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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