according to Regulation (EC) No. 1907/2006

ARALDITE® LY 5052

Version	Revision Date:	SDS Number:	Date of last issue: 02.02.2023
1.2	02.12.2023	400001008763	Date of first issue: 11.10.2018

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

1.1 Product identifier	
Trade name	: ARALDITE® LY 5052
Unique Formula Identifier (UFI)	: N30F-50A7-500F-AH4H

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

Use of the	:	Epoxy resin solution
Substance/Mixture		

1.3 Details of the supplier of the safety data sheet

Company Address	 Huntsman Advanced Materials (Europe) BV Everslaan 45 3078 Everberg Belgium
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

1.4 Emergency telephone number

+ Emergency telephone number			
Emergency telephone number	:	Centres Antipoison et de Toxicovigilance: ANGERS: 02 41 48 21 21 BORDEAUX: 05 56 96 40 80 LILLE: 0 825 812 822 LYON: 04 72 11 69 11 MARSEILLE 04 91 75 25 25 NANCY: 03 83 32 36 36 PARIS: 01 40 05 48 48 RENNES: 02 99 59 22 22 STRASBOURG: 03 88 37 37 37 TOULOUSE: 05 61 77 74 47 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	



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SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)						
Acute toxicity, Category 4	H332: Harmful if inhaled.					
Skin irritation, Category 2	H315: Causes skin irritation.					
Serious eye damage, Category 1	H318: Causes serious eye damage.					
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)

:

Hazard pictograms



Signal word

Danger

Hazard statements

- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H332 Harmful if inhaled.
- 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:

P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor. P391 Collect spillage.

Hazardous components which must be listed on the label:

Phenol, polymer with formaldehyde, glycidyl ether 1,4-bis(2,3 epoxypropoxy)butane

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.

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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. EC-No. Index-No. Registration number	Classification	Concent ration (% w/w)
Phenol, polymer with formaldehyde, glycidyl ether	28064-14-4 Polymer	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1; H317 Aquatic Chronic 2; H411	>= 50 - < 70
1,4-bis(2,3 epoxypropoxy)butane	2425-79-8 219-371-7 603-072-00-7 01-2119494060-45	Acute Tox. 4; H302 Acute Tox. 4; H332 Acute Tox. 4; H312 Skin Irrit. 2; H315 Eye Dam. 1; H318 Skin Sens. 1; H317 Aquatic Chronic 3; H412 Acute toxicity estimate Acute dermal toxicity: 1 100 mg/kg	>= 30 - < 50

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice	:	Move out of dangerous area. Consult a physician. 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.



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			suitable training	erous to the person providing aid to give
lf inh	aled	:	If inhaled, remo	ician after significant exposure. ove to fresh air. ention if symptoms occur.
In ca	se of skin contact	:		persists, call a physician. well with water. move clothes.
In ca	se of eye contact	:	tissue damage In the case of co of water and se Continue rinsin Remove contac Keep eye wide	contact with eyes, rinse immediately with plenty eek medical advice. g eyes during transport to hospital.
lf swa	allowed	:	If symptoms pe	ry tract clear. thing by mouth to an unconscious person. ersist, call a physician. nediately to hospital.
4.2 Most i	important symptoms a	nd e	effects, both act	ute and delayed
Risks		:	Causes skin irr	itation. allergic skin reaction. s eye damage.
4.3 Indica	tion of any immediate	med	lical attention a	ind special treatment needed
	ment	:	Treat symptom	-
SECTIO	N 5: Firefighting mea	sur	es	
	guishing media			
-	ble extinguishing media	:	Water spray Alcohol-resista Carbon dioxide	

Unsuitable extinguishing : Exercise caution when using a high volume water jet as it ma media scatter and spread fire	e water jet as it may
--	-----------------------

5.2 Special hazards arising from the substance or mixture

Specific hazards during : Do not allow run-off from fire fighting to enter drains or water

Dry chemical

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fire	efighting		courses.	
	zardous combustion oducts	:	Carbon dioxide (C Carbon monoxide Carbon oxides	,
5.3 Adv	vice for firefighters			
	ecial protective equipment firefighters	:	Wear self-contain necessary.	ed breathing apparatus for firefighting if
	ecific extinguishing ethods	:	U U	measures that are appropriate to local d the surrounding environment.
Fu	rther information	:	must not be disch Fire residues and	ated fire extinguishing water separately. This arged into drains. contaminated fire extinguishing water must accordance with local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions	: Use personal protective equipment. Ensure adequate ventilation.
	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.
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ARALDITE® LY 5052

HUNTSMAN

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			Avoid contact with For personal prote Smoking, eating a application area. Provide sufficient To avoid spills du	obtain special instructions before use.	
		on protection against 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 (Conditi	ons for safe storage,	inc	luding any incomp	patibilities
	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 prope labelled containers.	
	Advice	on common storage	:	For incompatible materials please refer to Section 10 of th SDS.	
	Recom temper	mended storage ature	:	2 - 40 °C	
		information on stability	:	Stable under norn	nal conditions.
7.3 \$	Specific	end use(s)			
	Specifi	c use(s)	:	No data available	

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Contains no substances with occupational exposure limit values.

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

Substance name	End Use	Exposure routes	Potential health effects	Value
1,4-bis(2,3 epoxypropoxy)butane	Workers	Inhalation	Long-term systemic effects	4,7 mg/m3
	Workers	Dermal	Long-term systemic effects	6,66 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	1,16 mg/m3

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Consumers	Dermal	Long-term systemic effects	3,33 mg/kg bw/day
Consumers	Oral	Long-term systemic effects	0,33 mg/kg bw/day

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

Substance name	Environmental Compartment	Value	
1,4-bis(2,3 epoxypropoxy)butane	Fresh water	0,024 mg/l	
	Remarks:Assessment Factors		
	Marine water	0,002 mg/l	
	Remarks:Assessment Factors		
	Sewage treatment plant	100 mg/l	
	Remarks:Assessment Factors		
	Fresh water sediment	0,084 mg/kg dry weight (d.w.)	
	Remarks:Equilibrium method		
	Marine sediment	0,008 mg/kg dry weight (d.w.)	
	Remarks:Equilibrium method		
	Soil	0,003 mg/kg dry weight (d.w.)	
	Remarks:Equilibrium method	·	
	Oral	0,028 mg/kg	

8.2 Exposure controls

Personal protective equipment

Eye/face protection	:	Eye wash bottle with pure water Tightly fitting safety goggles Wear face-shield and protective suit for abnormal processing problems.
Hand protection Material Break through time	:	Ethyl Vinyl Alcohol Laminate (EVAL) > 8 hrs
Material Break through time	:	butyl-rubber > 8 hrs
Material Break through time	:	Neoprene > 10 - < 480 min
Material Break through time	:	Nitrile rubber > 10 - < 480 min
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.



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Respi	Respiratory protection		ventilation is prov that exposures an Equipment should	rotection unless adequate local exhaust rided or exposure assessment demonstrates re within recommended exposure guidelines d conform to EN 143 pour formation use a respirator with an
Fil	ter type	:	Particulates type	(P)

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	: liquid	
Colour	: Clear	
Odour	: slight	
Odour Threshold	: No data is available on the product itse	lf.
Melting point/freezing point	: No data available	
Boiling point	: > 200 °C	
Flammability (solid, gas)	: No data is available on the product itse	lf.
Lower explosion limit / Lower flammability limit	: No data is available on the product itse	lf.
Upper explosion limit / Upper flammability limit	: No data is available on the product itse	lf.
Flash point	: 140 °C Method: Pensky-Martens closed cup	
Auto-ignition temperature	: No data is available on the product itse	lf.
Decomposition temperature	: >200 °C	
рН	: ca. 7 (20 °C) Concentration: 500 g/l	
Viscosity Viscosity, dynamic	: 1 000 - 1 500 mPa.s (25 °C)	
Solubility(ies) Water solubility	: insoluble (20 °C)	



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So	lubility in other solvents	:	No data is avai	lable on the product itself.
	ion coefficient: n- ol/water	:	No data is avai	lable on the product itself.
Vapo	ur pressure	:	< 0,002 hPa (20	0 °C)
Dens	ity	:	1,16 - 1,18 g/cr	n3 (25 °C)
Relat	ive density	:	1,16 - 1,18 (25	°C)
Relat	ive vapour density	:	No data is avai	lable on the product itself.
Partic	ele characteristics	:	No data is avai	lable on the product itself.
9.2 Other	information			
Miscil	bility with water	:	immiscible	
Moleo	cular weight	:	No data availat	ble
SECTION	V 10: Stability and rea	activi	ty	
10.1 Reac	-		-	
No da	angerous reaction knowr	n unde	er 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

10.5 Incompatible materials

Materials to avoid

: Strong acids Strong bases Strong oxidizing agents

10.6 Hazardous decomposition products

No decomposition if stored	and applied as directed.
Hazardous decomposition	: carbon dioxide
products	carbon monoxide



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SECTION 11: Toxicological information

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

Acute toxicity		
Harmful if inhaled.		
Product:		
Acute oral toxicity		Acute toxicity estimate: > 2 000 mg/kg Method: Calculation method
Acute inhalation toxicity		Assessment: The substance/mixture is not toxic on inhalation as defined by dangerous goods regulations.
	 -	Acute toxicity estimate: 4,29 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: Calculation method
Acute dermal toxicity		Acute toxicity estimate: > 2 000 mg/kg Method: Calculation method
Components:		
Phenol, polymer with forr	-	
Acute oral toxicity	ן /	LD50 (Rat, female): > 2 000 mg/kg Method: OECD Test Guideline 420 Assessment: The substance or mixture has no acute oral coxicity
Acute dermal toxicity	ן /	LD50 (Rat, male and female): > 2 000 mg/kg Method: OECD Test Guideline 402 Assessment: The substance or mixture has no acute dermal coxicity
1,4-bis(2,3 epoxypropoxy)butane	:
Acute oral toxicity	 (/	LD50 (Rat, male and female): 1 163 mg/kg Method: OECD Test Guideline 401 GLP: yes Assessment: The component/mixture is moderately toxic after single ingestion.
Acute inhalation toxicity	I	LC50 (Rat): > 2,068 mg/l Exposure time: 4 h Test atmosphere: dust/mist
	 / !	Test atmosphere: dust/mist Method: Expert judgement Assessment: The component/mixture is moderately toxic after short term inhalation., The substance/mixture is not toxic on nhalation as defined by dangerous goods regulations.
Acute dermal toxicity		Acute toxicity estimate: 1 100 mg/kg Method: Converted acute toxicity point estimate

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Assessment: The component/mixture is moderately toxic after single contact with skin.

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Skin corrosion/irritation

Causes skin irritation.

Components:

Phenol, polymer with formaldehyde, glycidyl ether:

Species	:	Rabbit
Method	:	OECD Test Guideline 404
Result	:	Irritating to skin.

1,4-bis(2,3 epoxypropoxy)butane:

Species	:	Rabbit
Method	:	OECD Test Guideline 404
Result	:	Skin irritation
GLP	:	yes

Serious eye damage/eye irritation

Causes serious eye damage.

Components:

Phenol, polymer with formaldehyde, glycidyl ether:

Species	:	Rabbit
Method	:	OECD Test Guideline 405
Result	:	Irritating to eyes.

1,4-bis(2,3 epoxypropoxy)butane:

:	Rabbit
:	Risk of serious damage to eyes.
:	OECD Test Guideline 405
:	yes
	:

Respiratory or skin sensitisation

Skin sensitisation

May cause an allergic skin reaction.

Respiratory sensitisation

Not classified due to lack of data.

Components:

Phenol, polymer with formaldehyde, glycidyl ether:

Exposure routes	:	Skin
Species	:	Mouse
Method	:	OECD Test Guideline 429
Result	:	May cause sensitisation by skin contact.

1,4-bis(2,3 epoxypropoxy)butane:

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Expos Speci Metho Resul GLP	od		Guinea pig OECD Test Guideline 406 May cause sensitisation by skin contact.			
Asses	sment	: Harmful if inh	Harmful if inhaled.			
Not cl <u>Comp</u>	cell mutagenicity assified due to lack o ponents:					
	ol, polymer with forn toxicity in vitro		ivation: with and without metabolic activation			
			n: 0 - 5000 ug/plate ivation: with and without metabolic activation /e			
Geno	Genotoxicity in vivo :		Cell type: Germ Application Route: Oral Result: negative			
		Application R Dose: 0 - 500	Cell type: Somatic Application Route: Oral Dose: 0 - 5000 mg/kg Result: negative			
1,4-bi	s(2,3 epoxypropoxy)butane:				
		: Test Type: re Concentration Metabolic act Method: OEC Result: positiv GLP: yes Remarks: No	verse mutation assay n: 10 - 5000 ug/plate ivation: with and without metabolic activation D Test Guideline 471 /e t classified due to data which are conclusive fficient for classification.			
		Test system: Concentration Metabolic act Method: OEC Result: positiv GLP: yes Remarks: No	nromosome aberration test in vitro Chinese hamster lung cells n: 1 - 100 μg/L ivation: with and without metabolic activation D Test Guideline 473 /e t classified due to data which are conclusive fficient for classification.			
		Test system:	vitro mammalian cell gene mutation test Chinese hamster lung cells ivation: with and without metabolic activation			



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		Result: positive GLP: no Remarks: Not o	Test Guideline 476 classified due to data which are conclusive cient for classification.
Geno	otoxicity in vivo	Species: Mous Cell type: Som Application Roi Exposure time: Dose: 187.5 - 7	atic ute: Oral 4 d /50 mg/kg Test Guideline 474
		Species: Rat Cell type: Liver Application Rot	ute: Oral Test Guideline 486
	n cell mutagenicity- ssment		ence does not support classification as a germ Animal testing did not show any mutagenic
	inogenicity classified due to lack of a	data.	
Com	ponents:		
Pher	nol, polymer with form	aldehyde, glycidyl e	ther:
Expo Dose	ication Route soure time e uency of Treatment od	 Rat, male and Oral 24 month(s) 15 mg/kg 7 daily OECD Test Gu negative 	
Expo Dose	ication Route psure time uency of Treatment od	: Mouse, male : Dermal : 24 month(s) : .1 mg/kg : 3 daily : OECD Test Gu : negative	ideline 453
Expo Dose	ication Route sure time e uency of Treatment	: Rat, female : Dermal : 24 month(s) : 1 mg/kg : 5 daily : OECD Test Gu	ideline 453

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Resu	ılt	: negative	
-	oductive toxicity classified due to lack of d	ata.	
<u>Com</u>	ponents:		
	tol, polymer with forma	: Species: Rat, m Application Rou Method: OECD	ale and female te: Oral Test Guideline 416 ts on fertility and early embryonic
	ts on foetal lopment	: Species: Rabbit Application Rou General Toxicity Result: No terato	te: Dermal / Maternal: NOAEL: 30 mg/kg body weight
			te: Oral / Maternal: NOAEL: 60 mg/kg body weight Test Guideline 414
			te: Oral / Maternal: NOAEL: 180 mg/kg body weight Test Guideline 414
1.4-b	is(2,3 epoxypropoxy)b	utane:	
Effec	lopment	: Test Type: Pre-r Species: Rat, fe Application Rout Dose: 0/30/100/ Duration of Sing General Toxicity Developmental Method: OECD GLP: yes	male te: Oral 300 mg/kg bw/day Je Treatment: 17 d Maternal: NOAEL: 300 mg/kg body weight Toxicity: NOAEL: 300 mg/kg body weight Test Guideline 414 nation given is based on data obtained from
	T - single exposure classified due to lack of d	ata.	
	T - repeated exposure classified due to lack of d	ata.	
Repe	eated dose toxicity		

Components:

Phenol, polymer with formaldehyde, glycidyl ether:



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Expo	EL cation Route sure time ber of exposures	: Rat, male and f : 50 mg/kg : Ingestion : 14 Weeks : 7 d : Subchronic toxi	
Expo	L cation Route sure time ber of exposures	: Rat, male and f : 10 mg/kg : Skin contact : 13 Weeks : 5 d : Subchronic toxi	
Expo	EL cation Route sure time ber of exposures	: Mouse, male : 100 mg/kg : Skin contact : 13 Weeks : 3 d : Subchronic toxi	city
1,4-b	is(2,3 epoxypropoxy)butane:	
Spec NOA Appli Expo	ies EL cation Route sure time ber of exposures	 Rat, male and f 200 mg/kg Oral 28 d daily 25, 100, 200, 40 	00 mg/kg
Expo	EL cation Route sure time ber of exposures od	 Rat, male and f 263 mg/kg Oral 90 h daily 0,30,100,300 m OECD Test Gui yes Information give substances. 	ig/kg bw/day

Aspiration toxicity

Not classified due to lack of data.

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



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Experience with human exposure No data available Toxicology, Metabolism, Distribution No data available Neurological effects No data available Further information

No data available

.

SECTION 12: Ecological information

12.1 Toxicity

Components:		
Phenol, polymer with formald	del	nyde, glycidyl ether:
Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): 1,5 mg/l Exposure time: 96 h Test Type: static test Test substance: Fresh water Method: OECD Test Guideline 203
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 1,7 mg/l Exposure time: 48 h Test Type: static test Test substance: Fresh water Method: OECD Test Guideline 202
		EC50 (Daphnia magna (Water flea)): 2,7 mg/l Exposure time: 48 h Test Type: static test Test substance: Fresh water
Toxicity to algae/aquatic plants	:	EC50 (Selenastrum capricornutum (green algae)): 9,4 mg/l Exposure time: 72 h Test Type: static test Test substance: Fresh water
Toxicity to microorganisms	:	IC50 (activated sludge): > 100 mg/l Exposure time: 3 h Test Type: static test Test substance: Fresh water
Toxicity to fish (Chronic toxicity)	:	GLP: yes
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

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1,4-b	is(2,3 epoxypropoxy)bi	utan	e:	
Toxic	ity to fish		End point: mortal Exposure time: 9 Test Type: static Analytical monito Test substance: I	6 h test ring: no
	tity to daphnia and other tic invertebrates		End point: Immob Exposure time: 2 Test Type: static Analytical monito Test substance: I	4 h test ring: no
Toxic plant	sity to algae/aquatic s		mg/l Exposure time: 7 Test Type: static Analytical monito Test substance: I	test ring: yes
			mg/l Exposure time: 7 Test Type: static Analytical monito Test substance: I	test ring: yes
Toxic	sity to microorganisms		Exposure time: 3 Test Type: static Analytical monito Test substance: I	test ring: no
12.2 Pers	istence and degradabil	ity		
Com	ponents:			

Components:

Phenol, polymer with formaldehyde, glycidyl ether:

Biodegradability	: Inoculum: Sewage (STP effluent)
	Concentration: 20 mg/l
	Result: Not readily biodegradable.
	Biodegradation: 5 %
	Exposure time: 28 d



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		Method: OECD	7 Test Guideline 301F
Stabi	lity in water	pH: 4	alf life (DT50): 4,83 d (25 °C)) Test Guideline 111
		Remarks: Fres	
		Degradation ha	alf life (DT50): 7,1 d (25 °C)
) Test Guideline 111 h water
		Degradation ha	alf life (DT50): 3,58 d (25 °C)
) Test Guideline 111 h water
1,4-b	is(2,3 epoxypropoxy)butane:	
Biode	egradability	Biodegradation Exposure time:	rated sludge 20 mg/l dily biodegradable. 1: 43 %
		Concentration: Result: Not rea Biodegradation Related to: Dis Exposure time:	age (STP effluent) 20 mg/l dily biodegradable. 1: 38 % solved organic carbon (DOC)
12.3 Bioa	ccumulative potenti	al	
Com	ponents:		
Phen	ol, polymer with for	maldehyde, glycidyl e	ther:
Bioac	ccumulation		on factor (BCF): 31 s not bioaccumulate.
	ion coefficient: n- ol/water	: log Pow: 3,242 pH: 7,1 Method: OECD) (25 °C) 9 Test Guideline 117
1,4-b	is(2,3 epoxypropoxy)butane:	
Partit	ion coefficient: n-	: log Pow: -0,269	9 (25 °C)

Partition coefficient: n- octanol/water	: log Pow: -0,269 (25 °C) pH: 6.7
Octanol/ Water	Method: OECD Test Guideline 117
	GLP: yes

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12.4 Mobility in soil

Components:

Phenol, polymer with formaldehyde, glycidyl ether:

Distribution among : Koc: 445 environmental compartments

1,4-bis(2,3 epoxypropoxy)butane:

Distribution among	:	Koc: 12,59
environmental compartments		Method: OECD Test Guideline 121

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

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	:	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.

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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. (EPOXY PHENOL NOVOLAC RESIN)
ADR	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (EPOXY PHENOL NOVOLAC RESIN)
RID	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (EPOXY PHENOL NOVOLAC RESIN)
IMDG	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (EPOXY PHENOL NOVOLAC RESIN)
ΙΑΤΑ	:	Environmentally hazardous substance, liquid, n.o.s. (EPOXY PHENOL NOVOLAC RESIN)

14.3 Transport hazard class(es)

	Class	Subsidiary risks
ADN	: 9	
ADR	: 9	
RID	: 9	
IMDG	: 9	
ΙΑΤΑ	: 9	

14.4 Packing group

ADN Packing group Classification Code Hazard Identification Number Labels	: : :	III M6 90 9
ADR Packing group Classification Code Hazard Identification Number Labels Tunnel restriction code		III M6 90 9 (-)



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Clas	king group ssification Code ard Identification Number	: III : M6 : 90 : 9	
Lab	king group	: III : 9 : F-A, S-F	
Pac airc Pac	king instruction (LQ) king group	: 964 : 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		
	ironmentally hazardous	: yes	
ADI Env	R ironmentally hazardous	: yes	
RID Env	ironmentally hazardous	: yes	
IMD Mar	IG ine pollutant	: yes	
	A (Passenger) ironmentally hazardous	: yes	
	A (Cargo) ironmentally hazardous	: yes	
14.6 Spe	ecial precautions for use	r	
bas	ed upon the properties of	the unpackaged mate	or informational purposes only, and solely rial as it is described within this Safety Data

olely / 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

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REACH - List of substances subject to authorisation (Annex XIV)

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)

Conditions of restriction for the : following entries should be considered: Number on list 75, 3

substances of very high concern.

: This product does not contain

If you intend to use this product as tattoo ink, please contact your vendor.

ENVIRONMENTAL HAZARDS

Seveso III: Directive 2012/18/EU of the E2 European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

Occupational Illnesses (R-: 51 461-3, France)

Installations classified for the : 4511 protection of the environment (Environment Code R511-9)

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
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



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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				
H302 H312 H315 H317 H318 H319 H332 H411 H412	 Harmful if swallowed. Harmful in contact with Causes skin irritation. May cause an allergic Causes serious eye da Causes serious eye irr Harmful if inhaled. Toxic to aquatic life with 	skin reaction. Image. itation.		
Full text of other abbreviati				
Acute Tox. Aquatic Chronic Eye Dam. Eye Irrit. Skin Irrit. Skin Sens.	 Acute toxicity Long-term (chronic) ac Serious eye damage Eye irritation Skin irritation Skin sensitisation 	uatic hazard		
Further information				
Classification of the mixtur	re:	Classification procedure:		
Acute Tox. 4	H332	Calculation method		
Skin Irrit. 2	H315	Calculation method		
Eye Dam. 1	H318	Calculation method		
Skin Sens. 1	H317	Calculation method		
Aquatic Chronic 2	H411	Calculation method		

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