according to Regulation (EC) No. 1907/2006

ARALDITE® DBF BD

HUNTSMAN
Enriching lives through innovation

 Version
 Revision Date:
 SDS Number:

 1.3
 02.12.2023
 400001008991

Date of last issue: 29.11.2022 Date of first issue: 21.02.2018

Print Date 23.04.2024

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

1.1 Product identifier	
Trade name	: ARALDITE® DBF BD
Unique Formula Identifier (UFI)	: QAQE-H0WQ-W00Y-UPPX
1.2 Relevant identified uses of the	substance or mixture and uses advised against
Use of the Substance/Mixture	: Component used for the manufacture of electrical insulation parts
Recommended restrictions on use	: For industrial use only.
1.3 Details of the supplier of the s	afety 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	: 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: $+1 800-424-9300$

according to Regulation (EC) No. 1907/2006

ARALDITE® DBF BD

Version	
1.3	

Revision Date: 02.12.2023

SDS Number: 400001008991



Enriching lives through innovation

Date of last issue: 29.11.2022 Date of first issue: 21.02.2018

Print Date 23.04.2024

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)

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:P261Avoid breathing mist or vapours.P264Wash skin thoroughly after handling.P273Avoid release to the environment.P280Wear protective gloves/ eye protection/ face protection.
		Response:P333 + P313If skin irritation or rash occurs: Get medicaladvice/ attention.P391Collect spillage.

Hazardous components which must be listed on the label:

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

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

according to Regulation (EC) No. 1907/2006

ARALDITE® DBF BD

Version	Revis
1.3	02.12

sion Date: SDS Number: 2.2023 400001008991 Date of last issue: 29.11.2022 Date of first issue: 21.02.2018

Print Date 23.04.2024

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.		(% w/w)
	Registration number		(/0 00/00)
2,2'-[(1-methylethylidene)bis(4,1-	1675-54-3	Skin Irrit. 2; H315	>= 70 -
phenyleneoxymethylene)]bisoxir	216-823-5	Eye Irrit. 2; H319	< 90
ane	603-073-00-2	Skin Sens. 1; H317	
	01-2119456619-26	Aquatic Chronic 2;	
		H411	
		specific concentration limit	
		Skin Irrit. 2; H315 >= 5 %	
		Eye Irrit. 2; H319 >= 5 %	

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.



according to Regulation (EC) No. 1907/2006

ARALDITE® DBF BD



Version 1.3	Revision Date: 02.12.2023	-	DS Number: 00001008991	Date of last issue: 29.11.2022 Date of first issue: 21.02.2018
				Print Date 23.04.2024
			If on skin, rinse If on clothes, rer	
In cas	se of eye contact	:	Remove contact Keep eye wide o	h eye(s) with plenty of water. elenses. open while rinsing. ersists, consult a specialist.
lf swa	allowed	:		/ tract clear. ning by mouth to an unconscious person. sist, call a physician.
4.2 Most i	mportant symptoms a	nd e	effects, both acu	te and delayed
Risks	i	:	Causes skin irrit May cause an a Causes serious	llergic skin reaction.
4.3 Indica	tion of any immediate	meo	dical attention ar	nd special treatment needed
Treat	•	:	Treat symptoma	-
SECTION	N 5: Firefighting mea	sur	es	
5.1 Exting	juishing media			
Suital	ble extinguishing media	:	Water spray Alcohol-resistan Carbon dioxide Dry chemical	
Unsu media	itable extinguishing a	:	Exercise cautior scatter and spre	n when using a high volume water jet as it may ad fire
5.2 Specia	al hazards arising from	the	e substance or m	lixture
-	ific hazards during	:		-off from fire fighting to enter drains or water
Haza produ	rdous combustion acts	:	Carbon oxides Phenolics	
5.3 Advice	e for firefighters			
Speci	ial protective equipment efighters	:	Wear self-contai necessary.	ined breathing apparatus for firefighting if
Speci metho	ific extinguishing ods	:		ng measures that are appropriate to local and the surrounding environment.
Furth	er information	:	must not be disc Fire residues an	nated fire extinguishing water separately. This charged into drains. d contaminated fire extinguishing water must n accordance with local regulations.

according to Regulation (EC) No. 1907/2006

ARALDITE® DBF BD

Version Rev 1.3 02.

Revision Date: 02.12.2023

SDS Number: 400001008991



Enriching lives through innovation

Date of last issue: 29.11.2022 Date of first issue: 21.02.2018

Print Date 23.04.2024

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

according to Regulation (EC) No. 1907/2006

ARALDITE® DBF BD

Version 1.3	Revision Date: 02.12.2023		9S Number: 0001008991	Date of last issue: 29.11.2022 Date of first issue: 21.02.2018
				Print Date 23.04.2024
			resealed and kept labelled container	upright to prevent leakage. Keep in properly s.
Advic	e on common storage	:	For incompatible i SDS.	naterials please refer to Section 10 of this
	mmended storage erature	:	2 - 40 °C	
	er information on ge stability	:	Stable under norn	nal conditions.
•	f ic end use(s) fic 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
diethyl phthalate	84-66-2	VME	5 mg/m3	FR VLE
	Further information: Indicative exposure limits			

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- phenyleneoxymethyle ne)]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

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	Fresh water	0,006 mg/l
ne		
	Marine water	0,001 mg/l
	Fresh water sediment	0,341 mg/kg dry weight (d.w.)
	Marine sediment	0,034 mg/kg dry



according to Regulation (EC) No. 1907/2006

ARALDITE® DBF BD

Version	Revision Date:
1.3	02.12.2023

SDS Number: 400001008991 Date of last issue: 29.11.2022 Date of first issue: 21.02.2018

Print Date 23.04.2024

	weight (d.w.)
Soil	0,065 mg/kg dry
	weight (d.w.)
Sewage treatment plant	10 mg/l
Secondary Poisoning	11 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	:	butyl-rubber > 8 h		
Material Break through time	:	Nitrile rubber 10 - 480 min		
Material Break through time	:	Ethyl Vinyl Alcohol Laminate (EVAL) > 8 h		
Remarks	:	The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough. Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact). 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



according to Regulation (EC) No. 1907/2006

ARALDITE® DBF BD



Vers 1.3	sion	Revision Date: 02.12.2023		S Number: 0001008991	Date of last issue: 29.11.2022 Date of first issue: 21.02.2018
					Print Date 23.04.2024
	Physica	al state	:	liquid	
	Colour		:	Clear	
	Odour		:	slight	
	Odour	Threshold	:	No data is availa	ble on the product itself.
	Melting	point/freezing point	:	No data is availa	ble on the product itself.
	Boiling	point	:	> 200 °C	
	Flamm	ability (solid, gas)	:	No data is availa	ble on the product itself.
		explosion limit / Lower ability limit	:	No data is availa	ble on the product itself.
		explosion limit / Upper ability limit	:	No data is availa	ble on the product itself.
	Flash p	point	:	ca. 160 °C Method: Pensky	Martens closed cup
	Auto-ig	nition temperature	:	does not ignite	
	Decom	position temperature	:	> 200 °C	
	рН		:	ca. 7 (20 °C) Concentration: 5	00 g/l
	Viscosi Visc	ty osity, dynamic	:	1 300 - 1 800 mF	Pa.s (25 °C)
	Solubili Wate	ity(ies) er solubility	:	practically insolu	ble (20 °C)
	Solu	bility in other solvents	:	No data is availa	ble on the product itself.
	Partitio octanol	n coefficient: n- I/water	:	No data is availa	ble on the product itself.
	Vapour	- pressure	:	< 0,0001 hPa (2	5 °C)
	Density	/	:	1,1 - 1,2 g/cm3 (25 °C)
	Relativ	e density	:	1,1 - 1,2 (25 °C)	
	Relativ	e vapour density	:	No data is availa	ble on the product itself.

according to Regulation (EC) No. 1907/2006

ARALDITE® DBF BD

Version	Revis
1.3	02.12

vision Date: 12.2023 Enriching lives through innovation

Date of last issue: 29.11.2022
Date of first issue: 21.02.2018

Print Date 23.04.2024

Particle characteristics

: No data is available on the product itself.

9.2 Other information

No data is available on the product itself.

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.
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10.5 Incompatible materials

Materials to avoid : None known.

10.6 Hazardous decomposition products

No decomposition if stored and applied as directed.

SECTION 11: Toxicological information

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

Acute toxicity

Not classified due to lack of data.

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 Assessment: The substance or mixture has no acute oral toxicity Remarks: No mortality observed at this dose.
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

Skin corrosion/irritation

Causes skin irritation.

according to Regulation (EC) No. 1907/2006

ARALDITE® DBF BD

Version	F
1.3	(

Revision Date: 02.12.2023

SDS Number: 400001008991



Enriching lives through innovation

Date of last issue: 29.11.2022 Date of first issue: 21.02.2018

Print Date 23.04.2024

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.
	-

Serious eye damage/eye irritation

Causes serious 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.

Respiratory or skin sensitisation

Skin sensitisation

May cause an allergic skin reaction.

Respiratory sensitisation

Not classified due to lack of data.

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.

Germ cell mutagenicity

Not classified due to lack of data.

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 Test system: Salmonella typhimurium Metabolic activation: with and without metabolic activation Method: Mutagenicity (Salmonella typhimurium - reverse mutation assay) Result: negative
Genotoxicity in vivo	: Test Type: in vivo assay

according to Regulation (EC) No. 1907/2006

ARALDITE® DBF BD

Version Revision Date: 1.3 02.12.2023

SDS Number: 400001008991



Enriching lives through innovation

Date of last issue: 29.11.2022 Date of first issue: 21.02.2018

Print Date 23.04.2024

Species: Mouse (male) Cell type: Germ Application Route: Oral Dose: 3333, 10000 mg/kg Result: negative

Test Type: gene mutation test Species: Rat (male) Cell type: Somatic Application Route: Oral Dose: 50,250,500,1000 mg/kg bw/day Method: OECD Test Guideline 488 Result: negative

Carcinogenicity

Not classified due to lack of data.

Components:

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

Species Application Route Exposure time Dose Frequency of Treatment NOAEL Method Result Target Organs	 Rat, male Oral 24 month(s) 0, 2, 15, or 100 mg/kg bw/day 7 days/week 15 mg/kg bw/day OECD Test Guideline 453 negative Digestive organs
Species Application Route Exposure time Dose Frequency of Treatment NOEL Method Result Target Organs	 Mouse, male Dermal 24 month(s) 0, 0.1, 10, 100 mg/kg bw/day 3 days/week 0,1 mg/kg body weight OECD Test Guideline 453 negative Digestive organs
Species Application Route Exposure time Dose Frequency of Treatment NOEL Method Result	 Rat, female Dermal 24 month(s) 0.1, 100, 1000 mg/kg bw/day 5 days/week 100 mg/kg body weight OECD Test Guideline 453 negative
Species Application Route Exposure time Dose Frequency of Treatment NOAEL	 Rat, female Oral 24 month(s) 0, 2, 15, or 100 mg/kg bw/day 7 days/week 100 mg/kg bw/day

according to Regulation (EC) No. 1907/2006

Revision Date:

02.12.2023

SDS Number:

400001008991

ARALDITE® DBF BD

Version

1.3

Method Result	: OECD Test Guideline 453 : negative
Target Organs	: Digestive organs
Species Application Route Exposure time Dose Frequency of Treatment NOEL Method Result Target Organs	 Rat, females Oral 24 month(s) 0, 2, 15, or 100 mg/kg bw/day 7 days/week 2 mg/kg bw/day OECD Test Guideline 453 negative Digestive organs
Reproductive toxicity	
Not classified due to lack of	f data.
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: NOEL: 540 mg/kg body weight General Toxicity F1: NOEL: 750 mg/kg body weight Symptoms: No adverse effects Method: OECD Test Guideline 416 Result: No effects on fertility and early embryonic development were detected.
Effects on foetal development	 Species: Rabbit, female 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: NOAEL: 30 mg/kg body weigh Developmental Toxicity: NOAEL: 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: NOAEL: 60 mg/kg body weigh Developmental Toxicity: NOAEL: 180 mg/kg body weight Method: OECD Test Guideline 414 Result: No teratogenic effects
	Test Type: Pre-natal



Print Date 23.04.2024

Enriching lives through innovation

Date of last issue: 29.11.2022

Date of first issue: 21.02.2018

according to Regulation (EC) No. 1907/2006

ARALDITE® DBF BD

Version Revision Date: 1.3 02.12.2023

SDS Number: 400001008991

Date of last issue: 29.11.2022 Date of first issue: 21.02.2018

Print Date 23.04.2024

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: NOAEL: 180 mg/kg body weight Developmental Toxicity: NOAEL: > 540 mg/kg body weight Method: OECD Test Guideline 414 Result: No teratogenic effects

STOT - single exposure

Not classified due to lack of data.

STOT - repeated exposure

Not classified due to lack of data.

Repeated dose toxicity

Components:

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

Species NOAEL Application Route Exposure time Number of exposures Dose Method	::	Rat, male and female 50 mg/kg oral (gavage) 14 Weeks 7 d 0, 50, 250, 1000 mg/kg/day OECD Test Guideline 408
Species NOAEL Application Route Exposure time Number of exposures Dose Method	:	Rat, male and female >= 10 mg/kg Skin contact 13 Weeks 5 d 0, 10, 100, 1000 mg/kg/day OECD Test Guideline 411
Species NOAEL Application Route Exposure time Number of exposures Dose Method	::	Mouse, male 100 mg/kg Skin contact 13 Weeks 3 d 0, 1, 10, 100 mg/kg/day OECD Test Guideline 411

:

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

according to Regulation (EC) No. 1907/2006

ARALDITE® DBF BD

Version	Revis
1.3	02.12

sion Date: 2.2023 SDS Number: 400001008991



Enriching lives through innovation

Date of last issue: 29.11.2022 Date of first issue: 21.02.2018

Print Date 23.04.2024

(EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher

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

according to Regulation (EC) No. 1907/2006

ARALDITE® DBF BD

Version 1.3	Revision Date: 02.12.2023	SDS Number: 400001008991	Date of last issue: 29.11.2022 Date of first issue: 21.02.2018
			Print Date 23.04.2024
Faat		n 4	
ECOL	oxicology Assessme		
Chro	nic aquatic toxicity	: Toxic to aquat	ic life with long lasting effects.
12.2 Pers	istence and degrada	bility	
<u>Com</u>	ponents:	-	
2,2'-[(1-methylethylidene)	bis(4,1-phenyleneox	ymethylene)]bisoxirane:
Biode	egradability	: Test Type: aer	robic
	c	Inoculum: activ	vated sludge, non-adapted
		Concentration	: 20 mg/l
		Result: Not rea	adily biodegradable.
		Biodegradation	n: 5%

Exposure time: 28 d

Method: OECD Test Guideline 301F

Stability in water	 Degradation half life (DT50): 4,83 d (25 °C) pH: 4 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:

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

Bioaccumulation	:	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

12.4 Mobility in soil

Components:

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

Distribution among : Koc: 445 environmental compartments

12.5 Results of PBT and vPvB assessment

Product:



according to Regulation (EC) No. 1907/2006

ARALDITE® DBF BD



Enriching lives through innovation

Version 1.3	Revision Date: 02.12.2023	SDS Number: 400001008991	Date of last issue: 29.11.2022 Date of first issue: 21.02.2018	
			Print Date 23.04.2024	
to be either persistent, bi		nce/mixture contains no components considered persistent, bioaccumulative and toxic (PBT), or ent and very bioaccumulative (vPvB) at levels of ner.		
12.6 End	docrine disrupting prop	perties		
<u>Pro</u>	duct:			
Ass	essment	considered to to REACH A (EU) 2017/2	 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 Oth	er adverse effects			
<u>Pro</u>	duct:			
	litional ecological rmation	unprofessio	nental hazard cannot be excluded in the event of nal handling or disposal. natic life with long lasting effects.	

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product	 Dispose of contents and container in accordance with all le regional, national and international regulations. Do not dispose of waste into sewer. Do not contaminate ponds, waterways or ditches with chemical or used container. 	ocal,
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. (BISPHENOL A EPOXY RESIN)
ADR	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

according to Regulation (EC) No. 1907/2006

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ARALDITE® DBF BD		Ŭ Ŭ		
Version Revision Date: 1.3 02.12.2023	SDS Number: 400001008991	Date of last issue: 29.11.2022 Date of first issue: 21.02.2018		
		Print Date 23.04.2024		
	N.O.S. (BISPHENOL A E	,		
RID	N.O.S.	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (BISPHENOL A EPOXY RESIN)		
IMDG	N.O.S.	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (BISPHENOL A EPOXY RESIN)		
ΙΑΤΑ	: Environmentally h (BISPHENOL A E	azardous substance, liquid, n.o.s. POXY 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 : (-)			
RID Packing group Classification Code Hazard Identification Number Labels	: III : M6 : 90 : 9			
IMDG Packing group Labels EmS Code	: III : 9 : F-A, S-F			
IATA (Cargo) Packing instruction (cargo aircraft) Packing instruction (LQ)	: 964 : Y964			
Packing group Labels	: III : Miscellaneous			
IATA (Passenger)				

according to Regulation (EC) No. 1907/2006

ARALDITE® DBF BD



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Version 1.3	Revision Date: 02.12.2023	SDS Number: 400001008991	Date of last issue: 29.11.2022 Date of first issue: 21.02.2018
			Print Date 23.04.2024
	cking instruction assenger aircraft)	: 964	
Ра Ра	cking instruction (LQ) cking group bels	: Y964 : III : Miscellaneous	
	vironmental hazards	. Wiscenarieous	
AC En	DN vironmentally hazardous	: yes	
AD En	DR vironmentally hazardous	: yes	
Rl En	D vironmentally hazardous	: yes	
	DG arine pollutant	: yes	
	TA (Passenger) vironmentally hazardous	: yes	
	FA (Cargo) vironmentally 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 authorisa (Annex XIV)	ation	:	Not applicable
REACH - Candidate List of Substances of Very Concern for Authorisation (Article 59).	High	:	This product does not contain substances of very high concern.
REACH - Restrictions on the manufacture, placi the market and use of certain dangerous substa mixtures and articles (Annex XVII)	-	:	Conditions of restriction for the following entries should be considered: Number on list 75, 3 If you intend to use this product as tattoo ink, please contact your vendor.
Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the	E2	EΝ\	/IRONMENTAL HAZARDS

according to Regulation (EC) No. 1907/2006

ARALDITE® DBF BD

Version	Revision Date:	SDS Number:
1.3	02.12.2023	400001008991

HUNTSMAN

Enriching lives through innovation

Date of last issue: 29.11.2022 Date of first issue: 21.02.2018

Print Date 23.04.2024

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	: All components are listed on the inventory, regulatory obligations/restrictions apply. Please contact your sales representative for more information before import into Australia			
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))

15.2 Chemical safety assessment

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

according to Regulation (EC) No. 1907/2006

ARALDITE® DBF BD

Version R 1.3 0

Revision Date: 02.12.2023

SDS Number: 400001008991



Enriching lives through innovation

Date of last issue: 29.11.2022 Date of first issue: 21.02.2018

Calculation method

Print Date 23.04.2024

SECTION 16: Other information

Aquatic Chronic 2

Full text of H-Statements		
H315 H317 H319 H411	 Causes skin irritation. May cause an allergic s Causes serious eye irri Toxic to aquatic life with 	tation.
Full text of other abbreviat	ons	
Aquatic Chronic Eye Irrit. Skin Irrit. Skin Sens. FR VLE FR VLE / VME	 Long-term (chronic) aqui Eye irritation Skin irritation Skin sensitisation France. Occupational E Time Weighted Averag 	exposure Limits
Further information		
Classification of the mixtur	e:	Classification procedure:
Skin Irrit. 2	H315	Calculation method
Eye Irrit. 2	H319	Calculation method
Skin Sens. 1	H317	Calculation method

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.

H411

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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ARALDITE® DBF BD

Version Revision Date: 1.3 02.12.2023

SDS Number: 400001008991 Date of last issue: 29.11.2022 Date of first issue: 21.02.2018

Print Date 23.04.2024

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