according to Regulation (EC) No. 1907/2006

# ARADUR® HY 5731 BD

Version	Revision Date:
1.1	24.04.2023

Date of last issue: 19.06.2018 Date of first issue: 19.06.2018

Print Date 26.03.2024

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

1.1 Product identifier	
Trade name	: ARADUR® HY 5731 BD
Unique Formula Identifier (UFI)	: R2QE-00UJ-000G-VNXR

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

SDS Number:

400001008057

	-
Use of the	: Component used for the manufacture of electrical insulation
Substance/Mixture	parts

#### 1.3 Details of the supplier of the safety data sheet

Company Address	<ul> <li>Huntsman Advanced Materials (Europe) BV</li> <li>Everslaan 45         <ul> <li>3078 Everberg</li> <li>Belgium</li> </ul> </li> </ul>
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**

Emorgonoy totophone nambor	
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 127	72/2008)
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 4	H413: May cause long lasting harmful effects to aquatic life.

## 2.2 Label elements

#### Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms	:	
Signal word	:	Warning
Hazard statements	:	<ul> <li>H315 Causes skin irritation.</li> <li>H317 May cause an allergic skin reaction.</li> <li>H319 Causes serious eye irritation.</li> <li>H413 May cause long lasting harmful effects to aquatic life.</li> </ul>
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.
		<b>Response:</b> P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.

## Hazardous components which must be listed on the label:

dihydro-3-(tetrapropenyl)furan-2,5-dione

#### 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

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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)
dihydro-3-(tetrapropenyl)furan- 2,5-dione	26544-38-7 247-781-6	Eye Irrit. 2; H319 Skin Sens. 1A; H317 Aquatic Chronic 4; H413	>= 70 - < 90
Propane-1,2-diol, propoxylated	25322-69-4 Polymer	Acute Tox. 4; H302 Acute toxicity estimate Acute oral toxicity: 500,05 mg/kg	>= 10 - < 20
benzyldimethylamine	103-83-3 203-149-1 612-074-00-7 01-2119529232-48	Flam. Liq. 3; H226 Acute Tox. 4; H302 Acute Tox. 3; H331 Acute Tox. 4; H312 Skin Corr. 1B; H314 Eye Dam. 1; H318 Aquatic Chronic 3; H412 Acute toxicity estimate Acute dermal toxicity: 1 477 mg/kg	>= 1 - < 2,5

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. 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



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		lt m	able training. ay be danger uth-to-mouth r	ous to the person providing aid to give esuscitation.
lf inha	lled		haled, remove medical atter	e to fresh air. tion if symptoms occur.
In cas	e of skin contact	lf or		ersists, call a physician. ell with water. ove clothes.
In cas	e of eye contact	Ren Kee	<ul> <li>Immediately flush eye(s) with plenty of water.</li> <li>Remove contact lenses.</li> <li>Keep eye wide open while rinsing.</li> <li>If eye irritation persists, consult a specialist.</li> </ul>	
lf swa	llowed	Kee Nev	p respiratory er give anythi	mmediately and call a physician. tract clear. ng by mouth to an unconscious person. ist, call a physician.

**4.2 Most important symptoms and effects, both acute and delayed** None known.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment

: Treat symptomatically.

## **SECTION 5: Firefighting measures**

5.1 Extinguishing media		
Suitable extinguishing media	:	Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical
Unsuitable extinguishing media	:	Exercise caution when using a high volume water jet as it may scatter and spread fire
5.2 Special hazards arising from	the	e 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
5.3 Advice for firefighters		
Special protective equipment for firefighters	:	Wear self-contained breathing apparatus for firefighting if necessary.

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	cific extinguishing hods		ng measures that are appropriate to local and the surrounding environment.	
Further information :		must not be disc Fire residues an	Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.	

## **SECTION 6: Accidental release measures**

6.1 Personal precautions, protect	tive	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 or spray mist. 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.



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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 0	Conditio	ons for safe storage,	incl	uding any incomp	patibilities	
		ements for storage nd 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 proplabelled containers.		
	Advice	on common storage	: For incompatible materials please refer to Section 10 of SDS.		materials please refer to Section 10 of this	
	Recomi tempera	mended storage ature	:	: 2 - 40 °C		
		information on stability	:	: Stable under normal conditions.		
7.3 S	Specific	end use(s)				
	•			No doto ovoilablo		

Specific 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
benzyldimethylamine	Workers	Inhalation	Long-term systemic effects	4,9 mg/m3
	Workers	Inhalation	Acute systemic effects	9,9 mg/m3
	Workers	Dermal	Long-term systemic effects	1,4 mg/kg bw/day
	Workers	Dermal	Acute systemic effects	2,8 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	0,87 mg/m3
	Consumers	Inhalation	Acute systemic effects	1,74 mg/m3
	Consumers	Dermal	Long-term systemic effects	0,5 mg/kg bw/day
	Consumers	Dermal	Acute systemic effects	1 mg/kg bw/day
	Consumers	Oral	Long-term systemic effects	0,25 mg/kg bw/day
	Consumers	Oral	Acute systemic effects	0,5 mg/kg bw/day
dihydro-3-	Workers	Dermal	Long-term systemic	0,33 mg/kg

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(tetrapropenyl)furan- 2,5-dione		effects	bw/day
	/DN		07/0000

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

Substance name	Environmental Compartment	Value			
benzyldimethylamine	Fresh water	0,005 mg/l			
	Marine water	0 mg/l			
	Sewage treatment plant	534 mg/l			
	Fresh water sediment	0,071 mg/kg dry weight (d.w.)			
	Marine sediment	0,007 mg/kg dry weight (d.w.)			
	Soil	0,011 mg/kg dry weight (d.w.)			
dihydro-3-(tetrapropenyl)furan- 2,5-dione	Fresh water	0,02 mg/l			
	Remarks: Assessment Factors				
	Marine water	0,002 mg/l			
	Remarks:Assessment Factors				
	Sewage treatment plant	10 mg/l			
	Remarks:Assessment Factors				
	Fresh water sediment	1,7 mg/kg dry weight (d.w.)			
	Remarks:Equilibrium method				
	Marine sediment	0,17 mg/kg dry weight (d.w.)			
	Remarks:Equilibrium method				
	Soil	0,2 mg/kg			
	Remarks:Equilibrium method				

#### 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	tyl-rubber 3 h	
Material Break through time	trile rubber - 480 min	
Material Break through time	hyl Vinyl Alcohol Laminate (EVAL) 3 h	
Remarks	ne selected protective gloves have to satisf ecifications of Regulation (EU) 2016/425 a N 374 derived from it. Gloves should be dis placed if there is any indication of degrada eakthrough. Take note of the information g poducer concerning permeability and break	nd the standard carded and tion or chemical iven by the



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			duration of contac Chemical-resistar approved standar chemical products necessary. The st	rkplace conditions (mechanical strain, ct). nt, impervious gloves complying with an d should be worn at all times when handling s if a risk assessment indicates this is uitability for a specific workplace should be e producers of the protective gloves.
Skii	n and body protection	:		ng tection according to the amount and he dangerous substance at the work place.
Res	spiratory protection	ventilation is provided or exposure as		rotection unless adequate local exhaust ided or exposure assessment demonstrates e within recommended exposure guidelines
l	Filter type	:	Organic vapour ty	rpe (A)

## **SECTION 9: Physical and chemical properties**

## 9.1 Information on basic physical and chemical properties

Physical state	:	liquid
Colour	:	light yellow
Odour	:	slight
Odour Threshold	:	No data is available on the product itself.
рН	:	4 - 5 (20 °C) Concentration: 500 g/l
Melting point/freezing point	:	No data is available on the product itself.
Boiling point	:	> 200 °C
Flash point	:	> 200 °C Method: Pensky-Martens closed cup, closed 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	:	No data is available on the product itself.
Relative vapour density	:	No data is available on the product itself.
Relative density	:	No data is available on the product itself.



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Dens	ity	: ca. 1 g/cm3 (2	0 °C)
	bility(ies) ater solubility	: practically insc	luble
Sc	lubility in other solvents	: No data is ava	ilable on the product itself.
	tion coefficient: n- nol/water	: No data is ava	ilable on the product itself.
Auto	ignition temperature	: No data is ava	ilable on the product itself.
Deco	mposition temperature	e : > 200 °C	
Visco Vis	osity scosity, dynamic	: ca. 450 mPa.s	(25 °C)
9.2 Other	information		

No data available

## **SECTION 10: Stability and reactivity**

#### **10.1 Reactivity**

No dangerous reaction known under conditions of normal use.

#### 10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reaction	ions
Hazardous reactions :	No hazards to be specially mentioned.
10.4 Conditions to avoid	
Conditions to avoid :	None known.
10.5 Incompatible materials	
Materials to avoid :	Strong acids and strong bases Strong oxidizing agents
10.6 Hazardous decomposition pro	ducts
Hazardous decomposition : products	carbon dioxide carbon monoxide

## **SECTION 11: Toxicological information**

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

#### Acute toxicity

#### Product:

Acute oral toxicity

: Acute toxicity estimate: > 2 000 mg/kg



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		Method: (	Calculation method			
Acute	inhalation toxicity	Exposure Test atmo	icity estimate: > 20 mg/l time: 4 h osphere: vapour Calculation method			
Acute	e dermal toxicity		Acute toxicity estimate: > 2 000 mg/kg Method: Calculation method			
Com	ponents:					
dihyo	lro-3-(tetrapropenyl)	furan-2,5-dione:				
Acute	e oral toxicity		it, male): 2 900 mg/kg DECD Test Guideline 423			
Acute	inhalation toxicity	Exposure Test atmo Assessm inhalation Remarks	osphere: dust/mist ent: The substance or mixture has no acute			
Acute	e dermal toxicity		abbit): > 6 200 - < 7 500 mg/kg ent: The substance or mixture has no acute dermal			
Propa	ane-1,2-diol, propoxy	/lated:				
Acute	e oral toxicity	: LD50 (Ra	tt): > 500 - 2 000 mg/kg			
			icity estimate: 500,05 mg/kg Calculation method			
Acute	e dermal toxicity	: LD50 (Ra	ubbit): > 3 000 mg/kg			
henz	yldimethylamine:					
	e oral toxicity	: LD50 (Ra	ıt, male): 579 mg/kg			
Acute	inhalation toxicity	Exposure Test atmo	osphere: vapour ent: The component/mixture is toxic after short term			
Acute	e dermal toxicity	: LD50 (Ra	ubbit, male): ca. 1 477 mg/kg			
			icity estimate: 1 477 mg/kg Calculation method			

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#### Skin corrosion/irritation

#### Components:

#### dihydro-3-(tetrapropenyl)furan-2,5-dione:

Species	:	Rabbit
Assessment	:	No skin irritation
Result	:	No skin irritation

#### Propane-1,2-diol, propoxylated:

Species	:	Rabbit
Assessment	:	No skin irritation
Result	:	slight irritation

#### benzyldimethylamine:

uideline 404

#### Serious eye damage/eye irritation

#### **Components:**

#### dihydro-3-(tetrapropenyl)furan-2,5-dione:

Species	:	Rabbit
Assessment	:	Irritating to eyes.
Result	:	Eye irritation
GLP	:	yes

#### Propane-1,2-diol, propoxylated:

Species	:	Rabbit
Assessment		No eye irritation
Result	•	slight irritation

#### benzyldimethylamine:

Species	:	Rabbit
Assessment		Severe eye irritation
Result	:	Severe eye irritation

#### Respiratory or skin sensitisation

#### **Components:**

## dihydro-3-(tetrapropenyl)furan-2,5-dione:

Test Type	:	Buehler Test
Exposure routes	:	Skin
Species	:	Guinea pig
Assessment	:	Probability or evidence of high skin sensitisation rate in
		humans
Method	:	OECD Test Guideline 406
Result	:	Probability or evidence of high skin sensitisation rate in

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GLP		humans : no	
Rema	arks	: Information gi substances.	ven is based on data obtained from similar
Propa	ane-1,2-diol, propox	ylated:	
	sure routes	: Skin	
Speci Resul		: Humans : Does not caus	se skin sensitisation.
-	yldimethylamine:		
Test T	i ype sure routes	: Maximisation : Skin	lest
Speci		: Guinea pig	
Metho		: OECD Test G	
Resul GLP	lt	: Does not caus : yes	se skin sensitisation.
Germ	cell mutagenicity		
<u>Comp</u>	oonents:		
-	Iro-3-(tetrapropenyl)		
Geno	toxicity in vitro	Test system: Metabolic acti	verse mutation assay Salmonella tryphimurium and E. coli vation: with and without metabolic activation D Test Guideline 471 ve
		Test Type: ge	ne mutation test
		Metabolic acti	mouse lymphoma cells vation: with and without metabolic activation D Test Guideline 476
		Result: negati	ve
		GLP: yes Remarks: Info	rmation given is based on data obtained from
		similar substa	
		Test system:	rromosome aberration test in vitro Chinese hamster lung cells vation: with and without metabolic activation
		Method: OEC Result: negati	D Test Guideline 473
		GLP: yes Remarks: Info similar substa	ormation given is based on data obtained from nces.
Prop	ane-1,2-diol, propox	vlated:	
-	toxicity in vitro	-	vation: Metabolic activation

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vation: Metabolic activation nc ac Result: negative



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benzyldimethylamine:	
Genotoxicity in vitro	: Test Type: Chromosome aberration test in vitro Test system: Chinese hamster lung cells Metabolic activation: with and without metabolic activation Method: Chromosome aberration test in vitro Result: positive GLP: yes
	Test Type: Ames test Test system: Salmonella typhimurium Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471 Result: negative GLP: yes
	Test Type: In vitro mammalian cell gene mutation test Test system: Chinese hamster lung cells Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 476 Result: negative GLP: yes
Genotoxicity in vivo	: Test Type: In vivo micronucleus test Species: Mouse (male and female) Cell type: Somatic Application Route: Oral Exposure time: 24 h Dose: 150 mg/kg Result: negative GLP: yes
Carcinogenicity	
No data available	
Reproductive toxicity	
Components:	
dihydro-3-(tetrapropenyl)fura	
Effects on fertility	<ul> <li>Test Type: Reproduction / Developmental Toxicity Screening Test</li> <li>Species: Rat, male and female</li> <li>Application Route: Oral</li> <li>Dose: 0, 50, 150, 250 mg/kg bw/day</li> <li>Duration of Single Treatment: 28 - 54 d</li> <li>Frequency of Treatment: 7 days/week</li> <li>General Toxicity - Parent: NOAEL: 50 mg/kg body weight</li> <li>General Toxicity F1: NOAEL: 250 mg/kg body weight</li> <li>Method: OECD Test Guideline 421</li> <li>GLP: yes</li> </ul>
Effects on foetal development	: Test Type: reproductive and developmental toxicity study Species: Rat, male and female Application Route: Other

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		Frequency of General Toxic Method: OECI Result: No tera GLP: yes	0/250 mg/kg bw/day Treatment: 7 days/week ity Maternal: NOAEL: > 250 mg/kg body weight D Test Guideline 421 atogenic effects rmation given is based on data obtained from nces.
benz	yldimethylamine:		
	ts on foetal opment	Duration of Sir General Toxic Developmenta Method: OECI	
	Γ - single exposure		
	ata available		
	<b>Γ - repeated exposure</b> ata available		
Repe	ated dose toxicity		
Com	ponents:		
dihyo	dro-3-(tetrapropenyl)fu	ran-2,5-dione:	
Expo	EL cation Route sure time per of exposures	<ul> <li>Rat, male and</li> <li>50 mg/kg</li> <li>oral (gavage)</li> <li>28 - 54 days</li> <li>daily</li> <li>50, 150 and 29</li> <li>OECD Test Gall</li> <li>yes</li> </ul>	50 mg/kg bw/d
Propa	ane-1,2-diol, propoxyla	ated:	
	L cation Route sure time	: Rat : 3 % : Ingestion : 2 400 h : Subchronic to:	kicity
Spec	ies	: Rat	



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#### benzyldimethylamine:

 Rat, male and female 50 mg/kg oral (gavage) 28 d 7 d 0,50,100,200,400 mg/kg bw/d Subacute toxicity yes
 Rat, male and female ca. 150 mg/kg oral (gavage) 28 d 7 d/w 0,6,30,150 mg/kg bw/d Subacute toxicity yes

#### 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

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:

#### dihydro-3-(tetrapropenyl)furan-2,5-dione:

Toxicity to fish

: LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l End point: mortality Exposure time: 96 h Test Type: static test



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			Analytical monito Test substance: Method: OECD GLP: yes	
	ity to daphnia and other ic invertebrates	:	End point: Immo Exposure time: 4 Test Type: static Analytical monito Test substance: Method: OECD GLP: yes	8 h test oring: yes Fresh water Fest Guideline 202 ation given is based on data obtained from
Toxici plants	ity to algae/aquatic	:	ErC50 (Selenast Exposure time: S Test Type: static Analytical monito Test substance: GLP: yes	test pring: no
			NOEC (Selenasi Exposure time: S Test Type: static Analytical monito Test substance: GLP: yes	test pring: no
Toxici	ity to microorganisms	:	Exposure time: 3 Test Type: static Analytical monito Test substance:	test pring: no
Ecoto	xicology Assessment			
	nic aquatic toxicity	:	May cause long	lasting harmful effects to aquatic life.
Propa	ane-1,2-diol, propoxyla	ted	:	
-	ity to fish	:	LC50 (Poecilia re Exposure time: 9	eticulata (guppy)): > 100 mg/l 96 h Fest Guideline 203
	ity to daphnia and other ic invertebrates	:	Exposure time: 4	magna (Water flea)): > 100 mg/l 8 h Fest Guideline 202
Toxici plants	ity to algae/aquatic	:	Exposure time: 7	mus subspicatus (green algae)): >= 100 mg/l '2 h Fest Guideline 201

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Toxici	ity to microorganisms	:	EC50 (activated s Exposure time: 3 Method: OECD Te	
aquat	ity to daphnia and other ic invertebrates nic toxicity)	:	Exposure time: 21	
benzy	yldimethylamine:			
-	ity to fish	:	LC50 (Pimephale End point: mortali Exposure time: 96 Test Type: static t Analytical monitor Test substance: F Method: OECD Te	h est ing: yes iresh water
	ity to daphnia and other ic invertebrates	:	Exposure time: 48 Test Type: static t Analytical monitor Test substance: F	est ing: yes
Toxici plants	ity to algae/aquatic	:	Exposure time: 72 Test Type: static t Test substance: F	est
			Exposure time: 72 Test Type: static t Test substance: F	est
Toxici	ity to microorganisms	:	EC50 (Pseudomo Exposure time: 17 Test Type: static t Analytical monitor Test substance: F Method: DIN 38 4 GLP: no	est ing: no resh water
			EC10 (Pseudomo Exposure time: 17 Test Type: static t Analytical monitor Test substance: F Method: DIN 38 4 GLP: no	est ing: no resh water

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aqu	icity to daphnia and other atic invertebrates ronic toxicity)	Exposure tim Species: Dap Test Type: so Test substan	
Eco	toxicology Assessment		
Acu	te aquatic toxicity	: Harmful to a	quatic life.
Chr	onic aquatic toxicity	: Toxic to aqua	atic life with long lasting effects.
12.2 Per	sistence and degradabil	ity	
<u>Cor</u>	nponents:		
dih	ydro-3-(tetrapropenyl)fu	an-2,5-dione:	
Biod	degradability	Concentratio Result: Not b Biodegradati Exposure tim	tivated sludge, non-adapted n: 2 mg/l iodegradable on: 9,9 %
Stal	pility in water	pH: 7	half life (DT50): 44 min (25 °C) CD Test Guideline 111 esh water
ben	zyldimethylamine:		
Biod	degradability	Concentratio	tivated sludge n: 100 mg/l eadily biodegradable.

Exposure time: 28 d

Method: OECD Test Guideline 301C

## 12.3 Bioaccumulative potential

## **Components:**

## dihydro-3-(tetrapropenyl)furan-2,5-dione:

Partition coefficient: n-	:	log Pow: >= 4,39 (22 °C)
octanol/water		pH: 7
		Method: OECD Test Guideline 107
		GLP: yes

#### benzyldimethylamine:



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Bioaccumulation		:	Test substance: F Method: flow-thro	2 d factor (BCF): 2,1 - 22 resh water		
				Test substance: F Method: flow-thro	ł d factor (BCF): 2,1 - 6,4 resh water	
	Partitio octanol	n coefficient: n- l/water	:	log Pow: 1,98 pH: 13		
12.4	Mobili	ty in soil				
	No data	a available				
12.5	5 Result	s of PBT and vPvB a	sse	ssment		
	Produc					
	Assess	sment	:	to be either persis	ixture contains no components considered stent, bioaccumulative and toxic (PBT), or d very bioaccumulative (vPvB) at levels of	
12.6	6 Endoc	rine disrupting prope	ertie	s		
	Produc	<u>ct:</u>				
	Assess	sment	:	considered to hav to REACH Article	e endocrine disrupting properties according 57(f) or Commission Delegated regulation r Commission Regulation (EU) 2018/605 at higher	
12.7	Other	adverse effects				
	Produc	<u>ct:</u>				
	Additio informa	nal ecological ation	:	unprofessional ha	hazard cannot be excluded in the event of ndling or disposal. asting harmful effects to aquatic life.	

## **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.



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Conta	aminated packaging		Print Date 26.0 ng contents. unused product. empty containers.	3.2024
SECTION	I 14: Transport info		empty containers.	

14.1 UN number or ID number		
UNRTDG	:	Not regulated as dangerous goods
ADN	:	Not regulated as dangerous goods
ADR	:	Not regulated as dangerous goods
RID	:	Not regulated as dangerous goods
IMDG	:	Not regulated as dangerous goods
ΙΑΤΑ	:	Not regulated as dangerous goods
14.2 UN proper shipping name		
UNRTDG	:	Not regulated as dangerous goods
ADN	:	Not regulated as dangerous goods
ADR	:	Not regulated as dangerous goods
RID	:	Not regulated as dangerous goods
IMDG	:	Not regulated as dangerous goods
ΙΑΤΑ	:	Not regulated as dangerous goods
14.3 Transport hazard class(es)		
ADN	:	Not regulated as dangerous goods
ADR	:	Not regulated as dangerous goods
RID	:	Not regulated as dangerous goods
IMDG	:	Not regulated as dangerous goods
ΙΑΤΑ	:	Not regulated as dangerous goods
14.4 Packing group		
ADN	:	Not regulated as dangerous goods
ADR	:	Not regulated as dangerous goods
RID	:	Not regulated as dangerous goods
IMDG	:	Not regulated as dangerous goods
IATA (Cargo)	:	Not regulated as dangerous goods
IATA (Passenger)	:	Not regulated as dangerous goods
14.5 Environmental hazards		

Not regulated as dangerous goods

#### 14.6 Special precautions for user

Not applicable



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## 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).				
REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)	<ul> <li>Conditions of restriction for the following entries should be considered: Number on list 75, 3</li> <li>If you intend to use this product as tattoo ink, please contact your vendor.</li> </ul>				
Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.	Not applicable				

Occupational Illnesses (R- : 84 461-3, France)

## 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

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IECSC		: On the inventory	v, 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.

## **SECTION 16: Other information**

#### **Full text of H-Statements**

H226 H302 H312 H314 H317 H318 H319 H331 H412 H413		skin. ns and eye damage. kin reaction. nage. ation.			
Full text of other abbreviations					
Acute Tox. Aquatic Chronic Eye Dam. Eye Irrit. Flam. Liq. Skin Corr. Skin Sens.	<ul> <li>Acute toxicity</li> <li>Long-term (chronic) aqu</li> <li>Serious eye damage</li> <li>Eye irritation</li> <li>Flammable liquids</li> <li>Skin corrosion</li> <li>Skin sensitisation</li> </ul>	atic hazard			
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 4	H413	Calculation method			

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