according to Regulation (EC) No. 1907/2006

# **ARALDITE® 2050 A**

1.0 17.02.2021 40000011295 Date of first issue: 17.02.2021	Version 1.0	Revision Date: 17.02.2021	SDS Number: 400000011295	Date of last issue: - Date of first issue: 17.02.2021	
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### SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier	
Trade name	: ARALDITE® 2050 A
Unique Formula Identifier (UFI)	: HWQ5-U0PN-600Q-EU90
1.2 Relevant identified uses of the	e substance or mixture and uses advised against
Use of the Substance/Mixture	: Adhesives
1.3 Details of the supplier of the s	safety data sheet
Company Address	<ul> <li>Huntsman Advanced Materials (Europe)BVBA</li> <li>Everslaan 45</li> <li>3078 Everberg</li> <li>Belgium</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 numbe	r
Emergency telephone number	: 0800 147 111 (free of charge), 09 471 977 EUROPE: +32 35 75 1234 France ORFILA: +33(0)145425959 ASIA: +65 6336-6011 China: +86 20 39377888 +86 532 83889090 India: + 91 22 42 87 5333 Australia: 1800 786 152 New Zealand: 0800 767 437 USA: +1/800/424.9300
SECTION 2: Hazards identifica	tion
2.1 Classification of the substance	e or mixture
Classification (REGULATION Flammable liquids, Category 2	
Skin corrosion, Sub-category 1	B H314: Causes severe skin burns and eye damage.

- Skin sensitisation, Category 1 H317: May cause an allergic skin reaction.
- Specific target organ toxicity single H335: May cause respiratory irritation.



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	exposu system	re, Category 3, Respir	rato	pry	
(	Chronic	e aquatic toxicity, Cate	egoi	ry 3 H412: effects	Harmful to aquatic life with long lasting s.
2.2 L	abel el	ements			
	Labelli	ng (REGULATION (E	C)	No 1272/2008)	
		pictograms	:		
:	Signal	word	:	Danger	
I	Hazard	statements	:	H225 H314 H317 H335 H412	Highly flammable liquid and vapour. Causes severe skin burns and eye damage. May cause an allergic skin reaction. May cause respiratory irritation. Harmful to aquatic life with long lasting effects.
1	Precau	tionary statements	:	Prevention:	
		,		P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
				P280	Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.
				Response:	
				P303 + P361 + P3	353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
				P304 + P340 + P3	
				P305 + P351 + P3	
				P370 + P378	In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Hazardous components which must be listed on the label: methyl methacrylate

methacrylic acid

2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, phosphate

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### 2.3 Other hazards

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

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

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

### **SECTION 3: Composition/information on ingredients**

### 3.2 Mixtures

### Hazardous components

Hazardous components			
Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concent ration (% w/w)
methyl methacrylate	80-62-6 201-297-1 607-035-00-6 01-2119452498-28	Flam. Liq. 2; H225 Skin Irrit. 2; H315 Skin Sens. 1; H317 STOT SE 3; H335 (Respiratory system)	>= 50 - < 70
methacrylic acid	79-41-4 201-204-4 607-088-00-5 01-2119463884-26	Acute Tox. 4; H302 Acute Tox. 4; H332 Acute Tox. 3; H311 Skin Corr. 1A; H314 Eye Dam. 1; H318 STOT SE 3; H335 (Respiratory system) specific concentration limit STOT SE 3; H335 >= 1 %	>= 5 - < 10
2,6-Di-tert-butyl-p-cresol	128-37-0 204-881-4 01-2119555270-46	Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Chronic aquatic toxicity): 1	>= 1 - < 2,5
2-Propenoic acid, 2-methyl-, 2- hydroxyethyl ester, phosphate	52628-03-2 258-053-2 01-2119980575-25	Skin Corr. 1A; H314 Eye Dam. 1; H318 Skin Sens. 1B; H317	>= 1 - < 3
alpha,alpha-dimethylbenzyl hydroperoxide	80-15-9 201-254-7	Org. Perox. E; H242 Acute Tox. 4; H302	>= 0,25 - < 1



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		617-002-00-8 01-211947579	6-19	Acute Tox. 3; H331 Acute Tox. 4; H312 Skin Corr. 1B; H314 STOT RE 2; H373 Aquatic Chronic 2; H411 specific concentration limit Skin Corr. 1B; H314 >= 10 % Skin Irrit. 2; H315 3 - < 10 % Eye Dam. 1; H318 3 - < 10 % Eye Irrit. 2; H319 1 - < 3 % STOT SE 3; H335 >= 1 %

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. 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	:	Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with difficulty. If on skin, rinse well with water. If on clothes, remove clothes.
In case of eye contact	:	Small amounts splashed into eyes can cause irreversible tissue damage and blindness. In the case of contact with eyes, rinse immediately with plenty

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		Continue rinsir Remove conta Keep eye wide	eek medical advice. ng eyes during transport to hospital. ct lenses. e open while rinsing. persists, consult a specialist.

If swallowed : Keep respiratory tract clear. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. Take victim immediately to hospital.

### 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	'.
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### **SECTION 5: Firefighting measures**

5.1	Extinguishing media		
	Suitable extinguishing media	:	Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical
	Unsuitable extinguishing media	:	Exercise caution when using a high volume water jet as it may scatter and spread fire
5.2	Special hazards arising from	the	substance or mixture
	Specific hazards during firefighting	:	Do not allow run-off from fire fighting to enter drains or water courses.
	Hazardous combustion products	:	Carbon oxides Sulphur oxides Hydrogen chloride
5.3	Advice for firefighters		
	Special protective equipment for firefighters	:	Wear self-contained breathing apparatus for firefighting if necessary.
	Specific extinguishing methods	:	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
	Further information	:	Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. For safety reasons in case of fire, cans should be stored separately in closed containments.

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Use a water spray to cool fully closed containers.

# **SECTION 6: Accidental release measures**

### 6.1 Personal precautions, protective equipment and emergency procedures

	Personal precautions	<ul> <li>Use personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Refer to protective measures listed in sections 7 and 8. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.</li> </ul>
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### 6.2 Environmental precautions

Environmental precautions	P	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	:	Contain spillage, and then collect with non-combustible
		absorbent material, (e.g. sand, earth, diatomaceous earth,
		vermiculite) and place in container for disposal according to
		local / national regulations (see section 13).

### 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 2 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. Take precautionary measures against static discharges. Open drum carefully as content may be under pressure. To avoid spills during handling keep bottle on a metal tray. Dispose of rinse water in accordance with local and national regulations.

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	Advice on protection against ire and explosion	:	Take necessary a (which might cause	a naked flame or any incandescent material. action to avoid static electricity discharge se ignition of organic vapours). Use only quipment. Keep away from open flames, hot rces of ignition.
I	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 C	onditions for safe storage,	inc	luding any incom	patibilities
	Requirements for storage areas and containers		ventilated place. carefully resealed	p container tightly closed in a dry and well- Containers which are opened must be and kept upright to prevent leakage. ecautions. Keep in properly labelled
	Advice on common storage	:	For incompatible SDS.	materials please refer to Section 10 of this
	Further information on storage stability	:	Stable under norr	nal conditions.
7.3 S	pecific end use(s)			
	Specific use(s)	:	No data available	

### **SECTION 8: Exposure controls/personal protection**

### 8.1 Control parameters

### **Occupational Exposure Limits**

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
methyl methacrylate	80-62-6	TWA	50 ppm	2009/161/EU
Further information	Indicative			
		STEL	100 ppm	2009/161/EU
Further information	Indicative			
		HTP-arvot 8h	10 ppm 42 mg/m3	FIOEL
		HTP-arvot 15 min	50 ppm 210 mg/m3	FI OEL
methacrylic acid	79-41-4	HTP-arvot 8h	20 ppm 71 mg/m3	FI OEL
2,6-di-tert-butyl-p- cresol	128-37-0	HTP-arvot 8h	10 mg/m3	FI OEL
		HTP-arvot 15 min	20 mg/m3	FI OEL
Silica, amorphous, fumed, crystfree	112945-52- 5	HTP-arvot 8h	5 mg/m3 (Silica)	FI OEL

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

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Substance name	End Use	Exposure routes	Potential health effects	Value
2,6-di-tert-butyl-p- cresol	Workers	Inhalation	Long-term systemic effects	3,5 mg/m3
	Workers	Dermal	Long-term systemic effects	0,5 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	0,86 mg/m3
	Consumers	Dermal	Long-term systemic effects	0,25 mg/kg bw/day
	Consumers	Oral	Long-term systemic effects	0,25 mg/kg bw/day
2-Propenoic acid, 2- methyl-, 2- hydroxyethyl ester, phosphate	Workers	Inhalation	Long-term systemic effects	7,04 mg/m3
	Workers	Dermal	Long-term systemic effects	1 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	1,74 mg/m3
	Consumers	Dermal	Long-term systemic effects	0,5 mg/kg bw/day
methacrylic acid	Workers	Inhalation	Long-term systemic effects	29,6 mg/m3
	Workers	Inhalation	Long-term local effects	88 mg/m3
	Workers	Dermal	Long-term systemic effects	4,25 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	6,3 mg/m3
	Consumers	Inhalation	Long-term local effects	6,55 mg/m3
	Consumers	Dermal	Long-term systemic effects	2,55 mg/kg bw/day
Silica, amorphous, fumed, crystfree	Workers	Inhalation	Long-term systemic effects	4 mg/m3

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

Substance name		Environmental Compartment	Value
2,6-di-tert-butyl-p-cresol		Fresh water	0,199 µg/l
Remarks: Assessme		ent Factors	
		Marine water	0,02 µg/l
	Assessme	nt Factors	
		Sewage treatment plant	0,17 mg/l
Assessment Factors			



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	Fresh water sediment	0,0996 mg/kg dry weight (d.w.)
	Equilibrium method	<b>i</b>
	Marine sediment	0,00996 mg/kg dry weight (d.w.)
	Equilibrium method	<u> </u>
	Soil	0,04769 mg/kg dry weight (d.w.)
	Equilibrium method	· · · · · ·
	Oral	8,33 mg/kg
2-Propenoic acid, 2- hydroxyethyl ester,		0,068 mg/l
	Assessment Factors	·
	Marine water	0,007 mg/l
	Assessment Factors	I
	Sewage treatment plant	0,546 mg/l
	Assessment Factors	, 3
	Fresh water sediment	0,481 mg/kg dry weight (d.w.)
	Equilibrium method	I
	Marine sediment	0,048 mg/kg dry weight (d.w.)
	Equilibrium method	
	Soil	0,056 mg/kg dry weight (d.w.)
	Equilibrium method	I
methacrylic acid	Fresh water	0,82 mg/l
	Assessment Factors	
	Marine water	0,82 mg/l
	Assessment Factors	, 3
	Freshwater - intermittent	0,82 mg/l
	Assessment Factors	-,- 3
	Sewage treatment plant	10 mg/l
	Assessment Factors	
	Soil	1,2 mg/kg

### 8.2 Exposure controls

Personal protective equipment

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Eye protection		Tightly fitting	tle with pure water safety goggles ield and protective suit for abnormal processing
Hand protection Remarks		approved stat chemical proo necessary. Tl	istant, impervious gloves complying with an ndard should be worn at all times when handling ducts if a risk assessment indicates this is he suitability for a specific workplace should be h the producers of the protective gloves.
Skin a	and body protection		othing protection according to the amount and of the dangerous substance at the work place.
Respi	ratory protection	: In the case of approved filte	vapour formation use a respirator with an r.
		ventilation is	ry protection unless adequate local exhaust provided or exposure assessment demonstrates as are within recommended exposure guidelines
Filter	type	: Organic vapo	ur type (A)

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

### 9.1 Information on basic physical and chemical properties

Physical state	: paste
Colour	: off-white
Odour	: like methacrylic acid
Odour Threshold	: No data is available on the product itself.
рН	: substance/mixture is non-soluble (in water)
Melting point/freezing point	: No data is available on the product itself.
Boiling point	: No data is available on the product itself.
Flash point	: 10 °C Method: estimated
Evaporation rate	: No data is available on the product itself.
Flammability (solid, gas)	: No data is available on the product itself.
Burning rate	: No data is available on the product itself.
Upper explosion limit / Upper flammability limit	: No data is available on the product itself.

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	₋ower exp lammabil	blosion limit / Lower ity limit	:	No data is availa	ble on the product itself.
٧	/apour pr	essure	:	No data is availa	ble on the product itself.
R	Relative v	apour density	:	No data is availa	ble on the product itself.
R	Relative c	lensity	:	No data is availa	ble on the product itself.
D	Density		:	1,02 - 1,05 g/cm3	3
S	Solubility(ies) Water solubility		:	insoluble	
	Solubility in other solvents		:	No data is availa	ble on the product itself.
	Partition coefficient: n- octanol/water		:	No data is availa	ble on the product itself.
A	Auto-ignit	ion temperature	:	No data is availa	ble on the product itself.
C	Decomposition temperature		:	No data is availa	ble on the product itself.
V	Viscosity Viscosity, dynamic		:	40 - 70 Pas	
E	Explosive properties		:	No data is availa	ble on the product itself.
C	Oxidizing properties		:	No data is availa	ble on the product itself.

### 9.2 Other information

No data available

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

### 10.1 Reactivity

No dangerous reaction known under conditions of normal use.

### **10.2 Chemical stability**

Stable under normal conditions.

10.3 Possibility of hazardous	reactio	ns
Hazardous reactions	:	Vapours may form explosive mixture with air.
10.4 Conditions to avoid		
Conditions to avoid	:	Heat, flames and sparks.

### 10.5 Incompatible materials

Materials to avoid : None known.



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### 10.6 Hazardous decomposition products

No hazardous decomposition products are known. Hazardous decomposition : carbon dioxide products carbon monoxide

# **SECTION 11: Toxicological information**

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

Acute toxicity	
Acute oral toxicity - Product	: Acute toxicity estimate : > 2 000 mg/kg Method: Calculation method
Acute inhalation toxicity - Product	: Acute toxicity estimate : > 20 mg/l Exposure time: 4 h Test atmosphere: vapour Method: Calculation method
Acute dermal toxicity - Product	: Acute toxicity estimate : > 2 000 mg/kg Method: Calculation method

Acute toxicity (other routes of : No data available administration)

### Skin corrosion/irritation

### Product:

Method: OECD Test Guideline 431 Result: Causes burns. GLP: yes

### Serious eye damage/eye irritation

### Components:

methacrylic acid: Species: Rabbit Assessment: Risk of serious damage to eyes. Method: Draize Test Result: Irreversible effects on the eye GLP: no

2,6-di-tert-butyl-p-cresol: Species: Rabbit Assessment: No eye irritation Method: OECD Test Guideline 405 Result: No eye irritation

2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, phosphate: Result: Corrosive

alpha,alpha-dimethylbenzyl hydroperoxide:

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Assessment: Risk of serious damage to eyes. Result: Irreversible effects on the eye

### Respiratory or skin sensitisation

### Components:

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

methacrylic acid: Test Type: Buehler Test Exposure routes: Skin Species: Guinea pig Assessment: Did not cause sensitisation on laboratory animals. Method: OECD Test Guideline 406 Result: Did not cause sensitisation on laboratory animals.

2,6-di-tert-butyl-p-cresol: Exposure routes: Skin Species: Humans Result: Does not cause skin sensitisation.

2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, phosphate: Test Type: Local lymph node assay (LLNA) Species: Mouse Method: OECD Test Guideline 429 Result: The product is a skin sensitiser, sub-category 1B. GLP: yes

Assessment:

No data available

### Germ cell mutagenicity

### Components:

methyl methacrylate: Genotoxicity in vitro	: Test Type: Microbial mutagenesis assay (Ames test) Test system: Salmonella typhimurium Method: OECD Test Guideline 471 Result: negative
methacrylic acid: Genotoxicity in vitro	: Test Type: reverse mutation assay Test system: Salmonella typhimurium Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471 Result: negative

2,6-di-tert-butyl-p-cresol:

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Genc	toxicity in vitro		erse mutation assay ation: with and without metabolic activation e
			omosome aberration test in vitro ation: with and without metabolic activation e
2-Pro	penoic acid 2-methy	I-, 2-hydroxyethyl ester,	phosphate:
	toxicity in vitro	: Test Type: Ame Test system: S Metabolic activ	es test almonella tryphimurium and E. coli ation: with and without metabolic activation Test Guideline 471
		Test system: C Metabolic activ	itro mammalian cell gene mutation test hinese hamster ovary cells ation: with and without metabolic activation Test Guideline 476 e
		Test system: H Metabolic activ	omosome aberration test in vitro uman lymphocytes ation: with and without metabolic activation Test Guideline 473 e
meth	ponents: acrylic acid: toxicity in vivo	Method: OECD	tat (male) atic ute: Inhalation
		Test species: M Application Rou Exposure time: Dose: 0.405, 4	ute: Inhalation

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		Result: negative	e
		GLP: no	
	-tert-butyl-p-cresol: toxicity in vivo	: Application Rou	ite: Intraperitoneal injection
		Dose: 75 mg/kg	)
		Result: negative	e e
		Application Rou	ite: Oral
		Exposure time:	9 Months
		Dose: ca 750 m Result: negative	
		-	
	cell mutagenicity-	: No data availab	le
Asses	ssment		
Carci	nogenicity		
Com	oonents:		
Applic Expose Dose Frequ No ob	es: Rat, male and fem cation Route: Oral sure time: 2 Years : 6, 60, 2000 ppm lency of Treatment: or pserved adverse effec It: negative		day
	acrylic acid:		
•	es: Rat, male and fem cation Route: inhalatic		
Expo	sure time: 102 weeks		
No ob		t level: >= 2,05 mg/kg k	pody weight
Metho	od: OECD Test Guide	line 451	
	es: Mouse, male and		
	cation Route: inhalatic sure time: 102 weeks	n (vapour)	
Dose	: ca. 2.05 and 4.1 mg/		
	ency of Treatment: 5 st observed adverse e	days/week effect level: ca. 2,05 mg	g/I
	od: OECD Test Guide		
	-tert-butyl-p-cresol:		
	es: Rat, male and fen cation Route: Oral	naie	
	It: negative		
	nogenicity -	: No data availab	le
Asses	ssment		

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Reproductive toxicity			
Components:			
methacrylic acid: Effects on fertility	Species: Rat, m Application Rou Dose: 0, 50, 15 General Toxicity 50 mg/kg body Fertility: No obs weight Symptoms: Rec	hale and female ute: Oral 0, 450 mg/kg/day y - Parent: No observed adverse effec weight served adverse effect level F1: 400 mg duced body weight	
2,6-di-tert-butyl-p-cresol:	Species: Rat, m Application Rou Dose: 25/100/5 General Toxicit 100 mg/kg body General Toxicit mg/kg body we	nale and female ute: Oral 00 mg/kg bw/day y - Parent: No observed adverse effec y weight y F1: No observed adverse effect leve ight	
Components:			
methyl methacrylate: Effects on foetal development	Dose: 99, 304, Teratogenicity: 8 300 mg/m <sup>3</sup> Embryo-foetal t concentration F Method: OECD	1178 ppm No observed adverse effect concentra oxicity: No observed adverse effect '1: 8 300 mg/m <sup>3</sup> Test Guideline 414	ition F1:
methacrvlic acid:			
	Species: Rat, fe Application Rou Dose: 0, 50, 10 Duration of Sing Frequency of The General Toxicity 200 ppm Developmental 300 ppm Embryo-foetal to concentration F Method: OECD Result: No effect	emale ate: Inhalation 0, 200 or 300 ppm gle Treatment: 14 d reatment: 7 days/week y Maternal: No observed adverse effect Toxicity: No observed adverse effect I oxicity: No observed adverse effect 1: 300 ppm Test Guideline 414 cts on fertility and early embryonic	
	Components: methacrylic acid: Effects on fertility 2,6-di-tert-butyl-p-cresol: Components: methyl methacrylate: Effects on foetal	Components: methacrylic acid: Effects on fertilityTest Type: Two Species: Rat, m Application Rou Dose: 0, 50, 15 General Toxicit 50 mg/kg body Fertility: No obs weight Symptoms: Red Method: OECD GLP: yes2,6-di-tert-butyl-p-cresol:Test Type: Two Species: Rat, m Application Rou Dose: 25/100/5 General Toxicit 100 mg/kg body we Result: negativeComponents: methyl methacrylate: Effects on foetal developmentSpecies: Rat Application Rou Dose: 25/100/5 General Toxicit mg/kg body we Result: negativeComponents: methyl methacrylate: Effects on foetal developmentSpecies: Rat Application Rou Dose: 99, 304, Teratogenicity: 8 300 mg/m³ Embryo-foetal t concentration FM Method: OECD Result: No teratmethacrylic acid:Test Type: Pre- Species: Rat, fe Application Rou Dose: 0, 50, 10 Duration of Sing Frequency of T General Toxicit 200 ppm Developmental 300 ppm Embryo-foetal t concentration FM ethod: OECD Result: No terat	Components:         methacrylic acid:         Effects on fertility       : Test Type: Two-generation study         Species: Rat, male and female         Application Route: Oral         Dose: 0, 50, 150, 450 mg/kg/day         General Toxicity - Parent: No observed adverse effect         50 mg/kg body weight         Fertility: No observed adverse effect level F1: 400 mg         weight         Symptoms: Reduced body weight         General Toxicity - Parent: No observed adverse effect         8,6-di-tert-butyl-p-cresol:         Test Type: Two-generation study         Species: Rat, male and female         Application Route: Oral         Dose: 2,5/100/500 mg/kg bw/day         General Toxicity - Parent: No observed adverse effect level         mg/kg body weight         General Toxicity - F1: No observed adverse effect level         mg/kg body weight         General Toxicity F1: No observed adverse effect concentra         gody weight         Result: negative         Effects on foetal         development         Dose: 99, 304, 1178 pm         Teratogenicity: No observed adverse effect concentra         gody/ma         Method: OECD Test Guideline 414         Result: No teratogenic effects



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Test Type: Pre-natal Species: Rabbit, male and female **Application Route: Oral** Dose: 50, 150, 450 milligram per kilogram Duration of Single Treatment: 23 d Frequency of Treatment: 7 days/week General Toxicity Maternal: No observed adverse effect level: 50 mg/kg body weight Developmental Toxicity: No observed adverse effect level F1: 450 mg/kg body weight Result: No effects on fertility and early embryonic development were detected. 2,6-di-tert-butyl-p-cresol: Test Type: Pre-natal Species: Mouse, female **Application Route: Oral** Duration of Single Treatment: 7 d General Toxicity Maternal: No observed adverse effect level: 240 ma/ka body weight Developmental Toxicity: No observed adverse effect level: 800 mg/kg body weight Target Organs: spleen, Kidney 2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, phosphate: Test Type: Pre-natal Species: Rat, females **Application Route: Oral** Dose: 100/300/1000 mg/kg bw/day General Toxicity Maternal: No observed adverse effect level: 300 mg/kg body weight Developmental Toxicity: No-observed-effect level: 1 000 mg/kg body weight Method: OECD Test Guideline 414 GLP: yes Reproductive toxicity -: No data available Assessment STOT - single exposure

### Components:

methyl methacrylate: Exposure routes: Inhalation Target Organs: Respiratory Tract Assessment: May cause respiratory irritation.

methacrylic acid: Exposure routes: Inhalation Target Organs: Respiratory Tract Assessment: The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with respiratory tract irritation.

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### STOT - repeated exposure

### Components:

alpha,alpha-dimethylbenzyl hydroperoxide: Exposure routes: Inhalation Target Organs: Lungs Assessment: The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 2.

### **Repeated dose toxicity**

### Components:

methyl methacrylate: Species: Rat, male and female NOAEL: 124,1 mg/kg Application Route: oral (drinking water) Exposure time: 2 years Number of exposures: daily Dose: 6, 60, 2000 ppm

methacrylic acid: Species: Rat, male and female NOEC: 352 - 1232 Application Route: inhalation (vapour) Test atmosphere: vapour Exposure time: 90 dNumber of exposures: 6 h Dose: 70/352/1232 mg/m3 Subsequent observation period: 5 days/week Method: OECD Test Guideline 413 GLP: yes

2,6-di-tert-butyl-p-cresol: Species: Pig, male and female NOAEL: >= 61 mg/kg Application Route: oral (feed) Exposure time: daily Method: Chronic toxicity

2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, phosphate: Species: Rat, male and female NOEL: 100 mg/kg Application Route: oral (gavage) Exposure time: 28 d Number of exposures: 7 days/week Dose: 0, 100, 300, or 1000 MKD Method: OECD Test Guideline 407 GLP: yes Target Organs: Kidney, Stomach

Repeated dose toxicity - : No data available Assessment

### Aspiration toxicity

No data available

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### 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 humanExposureGeneral Information:No data availableInhalation:No data availableSkin contact:No data availableEye contact:No data availableIngestion:No data availableToxicology, Metabolism, Distribution<br/>No data available

### Neurological effects

No data available

### **Further information**

### Product:

Remarks: Solvents may degrease the skin.

# **SECTION 12: Ecological information**

### 12.1 Toxicity

### Components:

methyl methacrylate: Toxicity to fish

: LC50 : 191 mg/l Exposure time: 96 h

LC50 (Oncorhynchus mykiss (rainbow trout)): > 79 mg/l Exposure time: 96 h

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1.0		17.02.2021	400	0000011295	Date of first issue: 17.0	
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				Test Type: flow-th Method: Fish Earl	rough test y-life Stage Toxicity Tes	t
		to daphnia and other nvertebrates	:	EC50 : 69 mg/l Exposure time: 48	3 h	
	oxicity lants	to algae/aquatic	:	EC50 : > 110 mg/ Exposure time: 72		
a	quatic i	to daphnia and other nvertebrates toxicity)	:	NOEC: 37 mg/l Exposure time: 21 Species: Daphnia Test Type: flow-th Method: OECD Te	magna (Water flea) rough test	
m	ethacr	ylic acid:				
	oxicity	•	:	End point: mortali Exposure time: 96 Test Type: flow-th Test substance: F Method: Fish Acu GLP: yes	h rough test resh water	ut)): 85 mg/l
		to daphnia and other nvertebrates	:	End point: Immob Exposure time: 48 Test Type: flow-th Analytical monitor Test substance: F	3 h rough test ing: yes	-
	oxicity lants	to algae/aquatic	:	ErC50 (Selenastru Exposure time: 72 Test Type: static t Analytical monitor Test substance: F Method: OECD Te GLP: yes	est ing: yes resh water	n algae)): 45 mg/l
				NOEC (Selenastru Exposure time: 72 Test Type: static t Analytical monitor Test substance: F Method: OECD Te GLP: yes	est ing: yes resh water	n algae)): 8,2 mg/l
Τ	oxicity	to microorganisms	:	EC50 (Pseudomo Exposure time: 16 Test Type: static t Analytical monitor	est	

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# ARALDITE® 2050 A



AKAL	DITE® 2050 A		
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		Test substand Method: DIN GLP: yes	ce: Fresh water 38 412 Part 8
Toxic toxici	ty to fish (Chronic ty)	Test Type: flo Analytical mo Test substand	e: 35 d chydanio rerio (zebrafish) w-through test
aquat	tity to daphnia and other tic invertebrates onic toxicity)	Test Type: flo Analytical mo Test substand	e: 21 d hnia magna (Water flea) w-through test
2,6-d	i-tert-butyl-p-cresol:		
	ty to fish	: LC50 (Fish): ( Exposure time Test substand Method: QSA	e: 96 h ce: Fresh water
	ity to daphnia and other tic invertebrates	End point: Im Exposure tim Test Type: sta Test substand	e: 48 h
Toxic plants	ity to algae/aquatic s	mg/l Exposure time Test Type: sta Test substand	
		mg/l Exposure tim Test Type: sta Test substand	
Toxic	ity to microorganisms	: ErC50 (activa Exposure time Test Type: sta	
Toxic toxici	tity to fish (Chronic ty)	: NOEC: 0,053 Exposure time	

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/ersion .0	Revision Date: 17.02.2021	SDS Number: 400000011295	Date of last issue: - Date of first issue: 17.02.2021
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		Test substance	as latipes (Orange-red killifish) e: Fresh water D Test Guideline 210
		NOEC: >= 23, Exposure time Species: Fish Test substance	: 70 d
aquatio	y to daphnia and other c invertebrates nic toxicity)	Test substance	: 21 d nia magna (Water flea)
		Test substance	: 21 d nia magna (Water flea)
toxicity		: 1	
	enoic acid, 2-methyl-, 2 y to fish	: LC50 (Oncorh Exposure time Test Type: sta Analytical mor	ynchus mykiss (rainbow trout)): > 112 mg/l : 96 h tic test
	y to daphnia and other c invertebrates	Exposure time Test Type: sta Analytical mor	tic test
Toxicit plants	y to algae/aquatic	Exposure time Test Type: sta Analytical mor	tic test
		Exposure time Test Type: sta Analytical mor	tic test
-	alpha-dimethylbenzyl hy y to fish	•	ynchus mykiss (rainbow trout)): 3,9 mg/l : 96 h

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ersion .0	Revision Date: 17.02.2021	SDS Number: 400000011295	Date of last issue: - Date of first issue: 17.02.2021
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		Test Type: sem Analytical moni Method: OECD	
	y to daphnia and other c invertebrates	Exposure time: Test Type: stat Analytical moni	ic test
Toxicit plants	y to algae/aquatic	Exposure time: Test Type: stat Analytical moni	c test
2.2 Persis	stence and degradabil	ity	
	onents: I methacrylate:		
Biodeg	gradability	: Result: Readily Biodegradation Exposure time:	: > 60 %
metha	crylic acid:		
Biodeç	gradability	Biodegradation Exposure time:	ated sludge 3 mg/l biodegradable. : 86 %
2,6-di-	tert-butyl-p-cresol:		
Biodeg	gradability	: Result: Not bio	degradable
•	enoic acid, 2-methyl-, 2 gradability	: Test Type: aero Inoculum: activ Concentration: Result: Readily Biodegradation Related to: Diss Exposure time:	bbic ated sludge, non-adapted 54,6 mg/l biodegradable. : 91,8 % solved organic carbon (DOC)
alpha,a	alpha-dimethylbenzyl h	ydroperoxide:	
Bioder	gradability	: Result: Not rea	dily biodegradable.

### Components:

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	yl methacrylate:	: Bioconcentratio	on factor (BCF): 3
octa	tion coefficient: n- nol/water	: log Pow: 1,38	
Parti	acrylic acid: tion coefficient: n- nol/water	: log Pow: 0,93 ( pH: 2,2	22 °C)
	li-tert-butyl-p-cresol: ccumulation	Exposure time:	on factor (BCF): 330 - 1 800
	tion coefficient: n- nol/water	: log Pow: 5,2	
12.4 Mob	ility in soil		
2,6-c Distr	i <b>ponents:</b> li-tert-butyl-p-cresol <b>:</b> ibution among ronmental compartmen	: Koc: 8183	
12.5 Res	ults of PBT and vPvB	assessment	
Proc	luct:		
Asse	essment	to be either per	/mixture contains no components considered rsistent, bioaccumulative and toxic (PBT), or and very bioaccumulative (vPvB) at levels of
12.6 End	ocrine disrupting pro	perties	
Proc	luct:		
Asse	essment	considered to h to REACH Artic	/mixture does not contain components have endocrine disrupting properties according cle 57(f) or Commission Delegated regulation 0 or Commission Regulation (EU) 2018/605 at or higher.
12.7 Othe	er adverse effects		
Proc	luct:		
	tional ecological mation	unprofessional	tal hazard cannot be excluded in the event of handling or disposal. atic life with long lasting effects.

### **SECTION 13: Disposal considerations**

### 13.1 Waste treatment methods

Product

: The product should not be allowed to enter drains, water courses or the soil.

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### AF

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		chemical or us Send to a licen Dispose of as l national regula	hazardous waste in compliance with local and
Cont	aminated packaging	· Empty remaini	na contente

Dispose of as unused product. Do not re-use empty containers. Do not burn, or use a cutting torch on, the empty drum.	Contaminated packaging	Do not re-use empty containers.
---	------------------------	---------------------------------

# **SECTION 14: Transport information**

IATA 14.1 UN number or ID number 14.2 UN proper shipping name	<ul> <li>: UN 2924</li> <li>: Flammable liquid, corrosive, n.o.s.</li> <li>(METHYL METHACRYLATE, METHACRYLIC ACID)</li> </ul>
<ul> <li>14.3 Transport hazard class(es)</li> <li>Subsidiary risk</li> <li>14.4 Packing group</li> <li>Labels</li> <li>Packing instruction (cargo aircraft)</li> <li>Packing instruction (passenger aircraft)</li> </ul>	<ul> <li>3</li> <li>8</li> <li>II</li> <li>Flammable Liquids, Corrosive</li> <li>363</li> <li>352</li> </ul>
IMDG 14.1 UN number or ID number 14.2 UN proper shipping name 14.3 Transport hazard class(es) Subsidiary risk 14.4 Packing group Labels EmS Code 14.5 Environmental hazards Marine pollutant	<ul> <li>: UN 2924</li> <li>: FLAMMABLE LIQUID, CORROSIVE, N.O.S.</li> <li>(METHYL METHACRYLATE, METHACRYLIC ACID)</li> <li>: 3</li> <li>: 8</li> <li>: 11</li> <li>: 3 (8)</li> <li>: F-E, S-C</li> <li>: no</li> </ul>
ADR 14.1 UN number or ID number 14.2 UN proper shipping name	: UN 2924 : FLAMMABLE LIQUID, CORROSIVE, N.O.S.



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		(METHYL M	/ETHACRYLATE, METHACRYLIC ACID)
	Fransport hazard	: 3	
<b>class(es)</b> Subsidiary risk		: 8	
14.4 Packing group		:	
Labels		: 3 (8)	
14.5 Environmental hazard			
Environmentally hazardous		: no	
RID			
14.1 U numb	UN number or ID ber	: UN 2924	
14.2 UN proper shipping name		: FLAMMABL	E LIQUID, CORROSIVE, N.O.S.
		(METHYL N	/IETHACRYLATE, METHACRYLIC ACID)

name		
		(METHYL METHACRYLATE, METHACRYLIC
14.3 Transport hazard	:	3
class(es)		
Subsidiary risk	:	8
14.4 Packing group	:	II
Labels	:	3 (8)
14.5 Environmental hazards		
Environmentally hazardous	:	no

### 14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

### **SECTION 15: Regulatory information**

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

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

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances. P5c FLAMMABLE LIQUIDS

### Other regulations:

Take note of Directive 92/85/EEC regarding maternity protection or stricter national regulations, where applicable.

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



HUNTSMA

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/			
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AIIC		: On the inventory	, or in compliance with the inventory
NZIoC	:	: Not in complianc	e with the inventory
ENCS		: On the inventory	, or in compliance with the inventory
KECI		: On the inventory	, or in compliance with the inventory
PICCS	2	: On the inventory	, or in compliance with the inventory
FICCE	)	. On the inventory	
15000			
IECSC	;	: On the inventory	, or in compliance with the inventory
TCSI		: On the inventory	, or in compliance with the inventory
TSCA		: All substances lis	sted 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

H225 H242 H302 H311 H312 H314 H315 H317 H318 H331 H332 H335 H373	<ul> <li>Highly flammable liquid and vapour.</li> <li>Heating may cause a fire.</li> <li>Harmful if swallowed.</li> <li>Toxic in contact with skin.</li> <li>Harmful in contact with skin.</li> <li>Causes severe skin burns and eye damage.</li> <li>Causes skin irritation.</li> <li>May cause an allergic skin reaction.</li> <li>Causes serious eye damage.</li> <li>Toxic if inhaled.</li> <li>Harmful if inhaled.</li> <li>May cause respiratory irritation.</li> <li>May cause damage to organs through prolonged or repeated exposure.</li> </ul>
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H4 H4	110 111		atic life with long lasting effects. fe with long lasting effects.
Fu	Ill text of other abbreviation	ons	
Aq Aq	ute Tox. Juatic Acute Juatic Chronic re Dam.	<ul> <li>Acute toxicity</li> <li>Short-term (acute</li> <li>Chronic aquatic to</li> <li>Serious eye dama</li> </ul>	oxicity
Fla Or Sk	am. Liq. g. Perox. in Corr. in Irrit.	<ul> <li>Flammable liquids</li> <li>Organic peroxides</li> <li>Skin corrosion</li> <li>Skin irritation</li> </ul>	3
ST ST	in Sens. OT RE OT SE 09/161/EU	<ul> <li>Specific target org</li> <li>Europe. COMMIS</li> <li>a third list of indic</li> <li>implementation org</li> </ul>	gan toxicity - repeated exposure gan toxicity - single exposure SION DIRECTIVE 2009/161/EU establishing ative occupational exposure limit values in f Council Directive 98/24/EC and amending
20 20 FI	OEL 09/161/EU / TWA 09/161/EU / STEL OEL / HTP-arvot 8h OEL / HTP-arvot 15 min	Commission Dire Finland. HTP Value Limit Value - eigh Short term expose Long term expose Short term expose	ues - Concentrations Known to be Harmful t hours ure limit ure limit
Fu	urther information		
Cla	assification of the mixture	e:	Classification procedure:
Fla	am. Liq. 2	H225	Based on product data or assessment
Sk	in Corr. 1B	H314	Based on product data or assessment
Ey	re Dam. 1	H318	Based on product data or assessment
Sk	in Sens. 1	H317	Calculation method
ST	OT SE 3	H335	Calculation method

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.

H412

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.

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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.

The trademarks above are the property of Huntsman Corporation or an affiliate thereof.

NO PERSON OR ORGANIZATION EXCEPT A DULY AUTHORIZED HUNTSMAN EMPLOYEE IS AUTHORIZED TO PROVIDE OR MAKE AVAILABLE DATA SHEETS FOR HUNTSMAN PRODUCTS. DATA SHEETS FROM UNAUTHORIZED SOURCES MAY CONTAIN INFORMATION THAT IS NO LONGER CURRENT OR ACCURATE.



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# ARALDITE® 2050 B

Version	Revision Date:	SDS Number:	Date of last issue: 22.12.2020
1.2	28.05.2021	40000009925	Date of first issue: 17.03.2020

Print Date 19.01.2023

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

1.1 Product identifier	
Trade name	: ARALDITE® 2050 B
Unique Formula Identifier (UFI)	: HCY6-K0WG-E00E-SSAW
1.2 Relevant identified uses of the	e substance or mixture and uses advised against
Use of the Substance/Mixture	: Adhesives and/or sealants
1.3 Details of the supplier of the s	afety data sheet
Company Address	<ul> <li>Huntsman Advanced Materials (Europe)BVBA</li> <li>Everslaan 45</li> <li>3078 Everberg</li> <li>Belgium</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	
Emergency telephone number	: 0800 147 111 (free of charge), 09 471 977 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

# 2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)				
Flammable liquids, Category 2	H225: Highly flammable liquid and vapour.			
Skin irritation, Category 2	H315: Causes skin irritation.			
Skin sensitisation, Category 1	H317: May cause an allergic skin reaction.			
Specific target organ toxicity - single exposure, Category 3, Respiratory system	H335: May cause respiratory irritation.			



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# ARALDITE® 2050 B

Version	Revision Date:
1.2	28.05.2021

SDS Number: 400000009925



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### 2.2 Label elements

Labelling (REGULATION (EC) Hazard pictograms :	No 1272/2008)	!
Signal word :	Danger	
Hazard statements :	H225 H315 H317 H335	Highly flammable liquid and vapour. Causes skin irritation. May cause an allergic skin reaction. May cause respiratory irritation.
Precautionary statements :	<b>Prevention:</b> P210 P233 P261 P264 P280 <b>Response:</b>	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Avoid breathing mist or vapours. Wash skin thoroughly after handling. Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.
	<b>Response:</b> P370 + P378	In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Hazardous components which must be listed on the label: methyl methacrylate

### 2.3 Other hazards

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

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

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

### **SECTION 3: Composition/information on ingredients**

### 3.2 Mixtures

### Hazardous components

Chemical name CAS-No. Classification	Concent
--------------------------------------	---------

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	EC-No. Index-No. Registration number		ration (% w/w)
methyl methacrylate	80-62-6 201-297-1 607-035-00-6 01-2119452498-28	Flam. Liq. 2; H225 Skin Irrit. 2; H315 Skin Sens. 1; H317 STOT SE 3; H335 (Respiratory system)	>= 70 - < 90
3,5-diethyl-1,2-dihydro-1-phenyl- 2-propylpyridine	34562-31-7 252-091-3 01-2120769712-47	Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Aquatic Chronic 4; H413	>= 2,5 - < 10
2,6-Di-tert-butyl-p-cresol	128-37-0 204-881-4 01-2119555270-46	Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Chronic aquatic toxicity): 1	>= 0,1 - < 0,25

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.
If inhaled	:	If inhaled, remove to fresh air. Get medical attention if symptoms occur.
In case of skin contact	:	If skin irritation persists, call a physician. If on skin, rinse well with water. If on clothes, remove clothes.
In case of eye contact	:	Flush eyes with water as a precaution. Remove contact lenses. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.
If swallowed	:	Keep respiratory tract clear. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.

# 4.2 Most important symptoms and effects, both acute and delayed

None known.

### 4.3 Indication of any immediate medical attention and special treatment needed Treatment : Treat symptomatically.



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# **SECTION 5: Firefighting measures**

OLOTION 5. Thenghing measures			
:	Alcohol-resistant foam		
	Carbon dioxide (CO2) Dry chemical		
:	High volume water jet		
the	substance or mixture		
:	Do not allow run-off from fire fighting to enter drains or water courses.		
:	Carbon oxides		
:	Wear self-contained breathing apparatus for firefighting if necessary.		
:	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. For safety reasons in case of fire, cans should be stored separately in closed containments. Use a water spray to cool fully closed containers.		
	: the :		

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

### 6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions	<ul> <li>Use personal protective equipment.</li> <li>Ensure adequate ventilation.</li> <li>Remove all sources of ignition.</li> <li>Evacuate personnel to safe areas.</li> <li>Refer to protective measures listed in sections 7 and 8.</li> <li>Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.</li> </ul>
----------------------	---

### **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.

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### 6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

### 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

		9	
	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. Take precautionary measures against static discharges. Open drum carefully as content may be under pressure. Dispose of rinse water in accordance with local and national regulations.
	Advice on protection against fire and explosion	:	Do not spray on a naked flame or any incandescent material. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). Use only explosion-proof equipment. Keep away from open flames, hot surfaces and sources of ignition.
	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 C	Conditions for safe storage, i	incl	uding any incompatibilities
	Requirements for storage areas and containers	:	No smoking. 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. Observe label precautions. Keep in properly labelled containers.
	Advice on common storage	:	For incompatible materials please refer to Section 10 of this SDS.
	Recommended storage temperature	:	2 - 8 °C
	Further information on storage stability	:	Stable under normal conditions.



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### 7.3 Specific end use(s)

Specific use(s)

: No data available

### **SECTION 8: Exposure controls/personal protection**

### 8.1 Control parameters

### **Occupational Exposure Limits**

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
methyl methacrylate	80-62-6	TWA	50 ppm	2009/161/EU
Further information	Indicative			
		STEL	100 ppm	2009/161/EU
Further information	Indicative			
		HTP-arvot 8h	10 ppm 42 mg/m3	FI OEL
		HTP-arvot 15 min	50 ppm 210 mg/m3	FI OEL
2,6-di-tert-butyl-p- cresol	128-37-0	HTP-arvot 8h	10 mg/m3	FI OEL
		HTP-arvot 15 min	20 mg/m3	FI OEL

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

Substance name	End Use	Exposure routes	Potential health effects	Value
2,6-di-tert-butyl-p- cresol	Workers	Inhalation	Long-term systemic effects	3,5 mg/m3
	Workers	Dermal	Long-term systemic effects	0,5 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	0,86 mg/m3
	Consumers	Dermal	Long-term systemic effects	0,25 mg/kg bw/day
	Consumers	Oral	Long-term systemic effects	0,25 mg/kg bw/day

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

Substance name		Environmental Compartment	Value
2,6-di-tert-butyl-p-cresol		Fresh water	0,199 µg/l
Remarks:	Assessment Factors		
	•	Marine water	0,02 µg/l
Assessment Factors			
		Sewage treatment plant	0,17 mg/l

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Assessm	ent Factors	
	Fresh water sediment	0,0996 mg/kg dry weight (d.w.)
Equilibriu	m method	
	Marine sediment	0,00996 mg/kg dry weight (d.w.)
Equilibriu	m method	·
	Soil	0,04769 mg/kg dry weight (d.w.)
Equilibriu	m method	
	Oral	8,33 mg/kg

### 8.2 Exposure controls

· Personal protective equipment				
Eye protection	: Eye wash bottle with pure water Tightly fitting safety goggles			
Hand protection Material Break through time Glove thickness	<ul> <li>butyl-rubber</li> <li>60 min</li> <li>0,7 mm</li> </ul>			
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. 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).			
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			
Filter type	: Organic vapour type (A)			



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

#### 9.1 Information on basic physical and chemical properties

Physical state	: paste
Colour	: light yellow
Odour	: acrylic-like
Odour Threshold	: No data is available on the product itself.
рН	: substance/mixture is non-soluble (in water)
Melting point/freezing point	: No data is available on the product itself.
Boiling point	: >100 °C
Flash point	: 10 °C Method: closed cup
Evaporation rate	: No data is available on the product itself.
Flammability (solid, gas)	: No data is available on the product itself.
Burning rate	: No data is available on the product itself.
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	: 0,95 (20 °C)
Density	: 0,95 g/cm3 (20 °C)
Solubility(ies) Water solubility	: insoluble
Solubility in other solvents	: No data is available on the product itself.
Partition coefficient: n- octanol/water	: No data is available on the product itself.
Auto-ignition temperature	: No data is available on the product itself.
Decomposition temperature	: No data is available on the product itself.
Viscosity	

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cosity, dynamic	: 15 000 - 20 00 thixotropic	0 mPa.s (25 °C)
sive properties	: No data is ava	ilable on the product itself.
zing properties	: No data is ava	ilable on the product itself.
information		
ata available		
10: Stability and re	eactivity	
tivity		
angerous reaction know	n under conditions of	normal use.
nical stability		
e under normal conditio	ons.	
ibility of hazardous re	eactions	
rdous reactions	: Vapours may form explosive mixture with air.	
litions to avoid		
itions to avoid	: Heat, flames a	ind sparks.
npatible materials		
ials to avoid	: Strong acids Strong bases Strong oxidizir	ng agents
rdous decomposition	products	
rdous decomposition	: carbon dioxide	e ide
	28.05.2021 acosity, dynamic asive properties zing properties <b>information</b> ata available <b>V 10: Stability and re</b> <b>stivity</b> angerous reaction known <b>nical stability</b> e under normal condition <b>stability of hazardous re</b> rdous reactions <b>ditions to avoid</b> itions to avoid <b>mpatible materials</b> rials to avoid <b>rdous decomposition</b>	28.05.2021       40000009925         acosity, dynamic       : 15 000 - 20 00 thixotropic         asive properties       : No data is available         information       : No data is available         A 10: Stability and reactivity         angerous reaction known under conditions of nical stability         e under normal conditions.         aibility of hazardous reactions         rdous reactions       : Vapours may for the strength of the strengt of the strength of the strength of the strengt of the strength o

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

Acute toxicity	
Acute oral toxicity - Product	: Acute toxicity estimate : > 2 000 mg/kg Method: Calculation method
<u>Components:</u> methyl methacrylate: Acute inhalation toxicity	: LC50 (Rat, male and female): 29,8 mg/l
	Exposure time: 4 h Test atmosphere: vapour
	Method: Directive 67/548/EEC, Annex V, B.2.

according to Regulation (EC) No. 1907/2006

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Comp	oonents:		
	I methacrylate:		
Acute	dermal toxicity		male): > 5 000 mg/kg 9 Test Guideline 402
3,5-di	ethyl-1,2-dihydro-1-ph	enyl-2-propylpyridine:	
Acute	dermal toxicity	: LD50 (Rabbit, r GLP: yes	nale and female): > 1 000 mg/kg
		-	he substance or mixture has no acute dermal
		toxicity	
2,6-di	-tert-butyl-p-cresol:		
	dermal toxicity		e and female): > 2 000 mg/kg
			Test Guideline 402 he substance or mixture has no acute dermal
		toxicity	
Acute	toxicity (other routes)	of : No data availab	ble
	istration)		
Skin d	corrosion/irritation		
Comp	oonents:		
	I methacrylate:		
	es: Rabbit od: OPPTS 870.2500		
	t: Skin irritation		
3,5-di	ethyl-1,2-dihydro-1-ph	enyl-2-propylpyridine:	
	es: Rabbit		
	sure time: 4 h d: Other guidelines		
Resul	t: Skin irritation		
GLP:	yes		
	-tert-butyl-p-cresol:		
	es: Rabbit sment: No skin irritatio	n	
	d: OECD Test Guidel		
Resul	t: No skin irritation		
Serio	us eye damage/eye i	rritation	
Comp	oonents:		
		enyl-2-propylpyridine:	
	es: Rabbit d: OECD Test Guidel	ne 405	
Resul	t: Mild eye irritation		
GLP:	yes		
2,6-di	-tert-butyl-p-cresol:		

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Species: Rabbit Assessment: No eye irritation Method: OECD Test Guideline 405 Result: No eye irritation

#### Respiratory or skin sensitisation

#### Components:

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

3,5-diethyl-1,2-dihydro-1-phenyl-2-propylpyridine: Test Type: Local lymph node assay (LLNA) Species: Mouse Assessment: Did not cause sensitisation on laboratory animals. Method: OECD Test Guideline 429 Result: Did not cause sensitisation on laboratory animals. GLP: yes

2,6-di-tert-butyl-p-cresol: Exposure routes: Skin Species: Humans Result: Does not cause skin sensitisation.

Assessment:

No data available

#### Germ cell mutagenicity

#### Components:

methyl methacrylate: Genotoxicity in vitro	: Test Type: Microbial mutagenesis assay (Ames test) Test system: Salmonella typhimurium Method: OECD Test Guideline 471 Result: negative
3,5-diethyl-1,2-dihydro-1-pl	nenyl-2-propylpyridine:

Genotoxicity in vitro	: Test Type: reverse mutation assay
	Test system: Salmonella tryphimurium and E. coli
	Metabolic activation: with and without metabolic activation
	Method: OECD Test Guideline 471
	Result: negative
	GLP: yes
2,6-di-tert-butyl-p-cresol:	

Genotoxicity in vitro	: Test Type: reverse mutation assay
-	Metabolic activation: with and without metabolic activation
	Result: negative

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### ARALDITE® 2050 B Version Revision Date: SDS Number: Date of last issue: 22.12.2020 40000009925 1.2 28.05.2021 Date of first issue: 17.03.2020 Print Date 19.01.2023 Test Type: Chromosome aberration test in vitro Metabolic activation: with and without metabolic activation **Result:** negative Components: 2,6-di-tert-butyl-p-cresol: : Application Route: Intraperitoneal injection Genotoxicity in vivo Dose: 75 mg/kg **Result:** negative **Application Route: Oral** Exposure time: 9 Months Dose: ca 750 mg/kg **Result:** negative Germ cell mutagenicity-: No data available Assessment Carcinogenicity **Components:** methyl methacrylate: Species: Rat, male and female Application Route: Oral Exposure time: 2 Years Dose: 6, 60, 2000 ppm Frequency of Treatment: once daily No observed adverse effect level: 90,3 mg/kg bw/day **Result:** negative 2,6-di-tert-butyl-p-cresol: Species: Rat, male and female **Application Route: Oral** Result: negative : No data available Carcinogenicity -Assessment **Reproductive toxicity** Components: 2,6-di-tert-butyl-p-cresol: Effects on fertility : Test Type: Two-generation study Species: Rat, male and female **Application Route: Oral** Dose: 25/100/500 mg/kg bw/day General Toxicity - Parent: No observed adverse effect level: 100 mg/kg body weight General Toxicity F1: No observed adverse effect level: 25 mg/kg body weight



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		Result: negative	e
Com	ponents:		
Effect	yl methacrylate: ts on foetal opment	8 300 mg/m <sup>3</sup> Embryo-foetal t concentration F	1178 ppm No observed adverse effect concentration F1: oxicity: No observed adverse effect 1: 8 300 mg/m <sup>3</sup> Test Guideline 414
2,6-di	i-tert-butyl-p-cresol:	General Toxicit 240 mg/kg bod Developmental 800 mg/kg bod	e, female ute: Oral gle Treatment: 7 d y Maternal: No observed adverse effect level: y weight Toxicity: No observed adverse effect level:
•	oductive toxicity - ssment	: No data availat	ble

#### STOT - single exposure

#### **Components:**

methyl methacrylate: Exposure routes: Inhalation Target Organs: Respiratory Tract Assessment: May cause respiratory irritation.

### STOT - repeated exposure

No data available

#### Repeated dose toxicity

#### **Components:**

methyl methacrylate: Species: Rat, male and female NOAEL: 124,1 mg/kg Application Route: oral (drinking water) Exposure time: 2 years Number of exposures: daily Dose: 6, 60, 2000 ppm

2,6-di-tert-butyl-p-cresol: Species: Pig, male and female NOAEL: >= 61 mg/kg

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Application Route: oral (feed) Exposure time: daily Method: Chronic toxicity

Repeated dose toxicity - : No data available Assessment

#### Aspiration toxicity

No data available

### 11.2 Information on other hazards

#### Endocrine disrupting properties

#### Product:

Assessment

. . .

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

#### Experience with human exposure . .

General Information:	No data available
Inhalation:	No data available
Skin contact:	No data available

. .

Eye contact: No data available

Ingestion: No data available

### Toxicology, Metabolism, Distribution No data available

### Neurological effects

No data available

#### **Further information**

#### Product:

Remarks: Solvents may degrease the skin.

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### **SECTION 12: Ecological information**

12.1 Toxicity	
Components: methyl methacrylate:	
Toxicity to fish	: LC50 : 191 mg/l Exposure time: 96 h
	LC50 (Oncorhynchus mykiss (rainbow trout)): > 79 mg/l Exposure time: 96 h Test Type: flow-through test Method: Fish Early-life Stage Toxicity Test
Toxicity to daphnia and other aquatic invertebrates	: EC50 : 69 mg/l Exposure time: 48 h
Toxicity to algae/aquatic plants	: EC50 : > 110 mg/l Exposure time: 72 h
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	: NOEC: 37 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea) Test Type: flow-through test Method: OECD Test Guideline 211
3,5-diethyl-1,2-dihydro-1-phen	ıyl-2-propylpyridine:
Toxicity to daphnia and other aquatic invertebrates	<ul> <li>EL50 (Daphnia magna (Water flea)): 22 mg/l Exposure time: 48 h Test Type: static test Method: OECD Test Guideline 202 GLP: yes</li> </ul>
Toxicity to algae/aquatic plants	: EC50 (Pseudokirchneriella subcapitata (green algae)): 40 mg/l Exposure time: 72 h Test Type: static test Analytical monitoring: yes Method: OECD Test Guideline 201 GLP: yes
	NOEC (Pseudokirchneriella subcapitata (green algae)): 16 mg/l Exposure time: 72 h Test Type: static test Analytical monitoring: yes Method: OECD Test Guideline 201 GLP: yes
Ecotoxicology Assessment Chronic aquatic toxicity	: May cause long lasting harmful effects to aquatic life.
2,6-di-tert-butyl-p-cresol: Toxicity to fish	: LC50 (Fish): 0,199 mg/l Exposure time: 96 h

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		Test substa Method: QS	ince: Fresh water SAR
	ity to daphnia and other tic invertebrates	End point: Exposure ti Test Type: Test substa	
Toxic plants	ity to algae/aquatic s	mg/l Exposure ti Test Type: Test substa	
		mg/l Exposure ti Test Type: Test substa	
Toxic	ity to microorganisms	: ErC50 (acti Exposure ti Test Type:	
Toxic toxicit	ity to fish (Chronic ty)	Test substa	
		NOEC: >= Exposure ti Species: Fi Test substa	me: 70 d
aquat	tity to daphnia and other tic invertebrates onic toxicity)	Test substa	
		Test substa	
M-Fa toxicit	ctor (Chronic aquatic ty)	: 1	

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12.2 Persi	stence and degradabi	lity	
Com	ponents:		
-	yl methacrylate:		
Biode	gradability	: Result: Reac Biodegradati Exposure tim	
3,5-di	ethyl-1,2-dihydro-1-phe	nyl-2-propylpyridin	e:
Biode	gradability	: Result: Not r Biodegradati Exposure tim Method: QSA GLP: no	ne: 28 d
2,6-di	-tert-butyl-p-cresol:		
Biode	gradability	: Result: Not b	iodegradable
12.3 Bioa	ccumulative potential		
<u>Com</u>	oonents:		
	yl methacrylate:		
Bioac	cumulation	: Bioconcentra	tion factor (BCF): 3
octan	ion coefficient: n- ol/water	: log Pow: 1,3	
	ethyl-1,2-dihydro-1-phe ion coefficient: n-	enyl-2-propylpyridin : log Pow: > 6	
	ol/water	pH: 5,7	
		Method: OE0 GLP: yes	CD Test Guideline 117
2,6-di	-tert-butyl-p-cresol:		
Bioac	cumulation		prinus carpio (Carp)
		Exposure tim Bioconcentra	ition factor (BCF): 330 - 1 800
			-through test
	ion coefficient: n- ol/water	: log Pow: 5,2	
12.4 Mobi	lity in soil		
	ponents:		
2,6-di	-tert-butyl-p-cresol:		
	bution among onmental compartments	: Koc: 8183	
12.5 Resu	lts of PBT and vPvB a	issessment	
Produ	uct:		
Asses	ssment	to be either p	ce/mixture contains no components considered persistent, bioaccumulative and toxic (PBT), or nt and very bioaccumulative (vPvB) at levels of er

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### 12.6 Endocrine disrupting properties

#### Product:

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

#### 12.7 Other adverse effects

|--|

Additional ecological : information	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Harmful to aquatic life.
--	--

### **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

Product	:	The product should not be allowed to enter drains, water courses or the soil. Do not contaminate ponds, waterways or ditches with chemical or used container. Send to a licensed waste management company. Dispose of as hazardous waste in compliance with local and national regulations. Dispose of contents/ container to an approved waste disposal plant.
Contaminated packaging	:	Empty remaining contents. Dispose of as unused product. Do not re-use empty containers. Do not burn, or use a cutting torch on, the empty drum.

### **SECTION 14: Transport information**

IATA 14.1 UN number or ID number	: UN 1133
14.2 UN proper shipping name	: Adhesives
14.3 Transport hazard class(es)	: 3
14.4 Packing group	: 11
Labels	: Flammable Liquids
Packing instruction (cargo aircraft)	: 364
Packing instruction (passenger aircraft)	: 353

### IMDG



according to Regulation (EC) No. 1907/2006

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			Print Date 19.01.2023
	.1 UN number or ID Imber	: UN 1133	
14	.2 UN proper shipping	: ADHESIVES	
14	.3 Transport hazard ass(es)	: 3	
<b>14</b> La En	<b>.4 Packing group</b> bels nS Code	: II : 3 : F-E, S-D	
	<b>.5 Environmental hazards</b> arine pollutant	: no	
	DR		
	.1 UN number or ID Imber	: UN 1133	
	.2 UN proper shipping	: ADHESIVES	
14	.3 Transport hazard ass(es)	: 3	
14	.4 Packing group bels	: II : 3	
14	<b>.5 Environmental hazards</b> ivironmentally hazardous	-	
	D .1 UN number or ID ımber	: UN 1133	
14	.2 UN proper shipping	: ADHESIVES	
14	.3 Transport hazard ass(es)	: 3	
<b>14</b> La	.4 Packing group bels	: II : 3	
	<b>.5 Environmental hazards</b> avironmentally hazardous	: no	

### 14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

### **SECTION 15: Regulatory information**

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

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

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances. P5c FLAMMABLE LIQUIDS

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Other regulations:

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

The components of this product are reported in the following inventories:		
DSL	: All components of this product are on the Canadian DSL	
AIIC	: On the inventory, or in compliance with the inventory	
NZIoC		
NZIUC	: Not in compliance with the inventory	
ENCS	: Not in compliance with the inventory	
KECI	: On the inventory, or in compliance with the inventory	
PICCS	: On the inventory, or in compliance with the inventory	
IECSC	: On the inventory, or in compliance with the inventory	
TOOL		
TCSI	: On the inventory, or in compliance with the inventory	
TSCA	: All substances listed as active on the TSCA inventory	
100/1		

#### 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

H225 :	Highly flammable liquid and vapour.
H302 :	Harmful if swallowed.
H315 :	Causes skin irritation.
H317 :	May cause an allergic skin reaction.
H319 :	Causes serious eye irritation.

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H335 H400 H410 H413	) )	: Very toxic to aqu : Very toxic to aqu	<ul> <li>May cause respiratory irritation.</li> <li>Very toxic to aquatic life.</li> <li>Very toxic to aquatic life with long lasting effects.</li> <li>May cause long lasting harmful effects to aquatic life.</li> </ul>		
Full	text of other abbreviat	ions			
Aqua Aqua Eye Flam Skin Skin STO	n. Liq.	<ul> <li>Chronic aquatic</li> <li>Eye irritation</li> <li>Flammable liquid</li> <li>Skin irritation</li> <li>Skin sensitisatio</li> <li>Specific target o</li> <li>Europe. COMMI a third list of indi implementation</li> </ul>	ds n rgan toxicity - single exposure SSION DIRECTIVE 2009/161/EU establishing cative occupational exposure limit values in of Council Directive 98/24/EC and amending		
2009 FI O	EL )/161/EU / TWA )/161/EU / STEL EL / HTP-arvot 8h EL / HTP-arvot 15 min	<ul> <li>Finland. HTP Va</li> <li>Limit Value - eig</li> <li>Short term expos</li> <li>Long term expos</li> </ul>	Commission Directive 2000/39/EC Finland. HTP Values - Concentrations Known to be Harmful Limit Value - eight hours Short term exposure limit Long term exposure limit Short term exposure limit		
Furt	her information				
Clas	sification of the mixtu	e:	Classification procedure:		
Flam	n. Liq. 2	H225	Based on product data or assessment		
Skin	Irrit. 2	H315	Calculation method		

SDS Number:

Skin Irrit. 2	H315	Calculation method
Skin Sens. 1	H317	Calculation method
STOT SE 3	H335	Calculation method

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

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

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