according to Regulation (EC) No. 1907/2006

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

1.1 Product identifier

Trade name

: ARALDITE® 2047-1 RESIN

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

SDS Number:

400001010407

Use of the	:	Adhesives
Substance/Mixture		

1.3 Details of the supplier of the safety data sheet

Company Address	 Huntsman Advanced Materials (Europe) BV Everslaan 45 3078 Everberg
Telephone Telefax	Belgium : +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	er : 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
	USA. +1 000-424-9500

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Flammable liquids, Category 2

H225: Highly flammable liquid and vapour.



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Skin i	rritation, Category 2		H315: Causes skin irritation.
Serio	us eye damage, Categ	ory 1	H318: Causes serious eye damage.
Skin s	sensitisation, Category	1	H317: May cause an allergic skin reaction.
	fic target organ toxicity sure, Category 3, Resp m	-	H335: May cause respiratory irritation.
.2 Label	elements		
Labe	lling (REGULATION (I	EC) No 1272/2	008)
Haza	rd pictograms		
Signa	l word	: Danger	
Haza	rd statements	H315 (H317 M H318 (ighly flammable liquid and vapour. auses skin irritation. lay cause an allergic skin reaction. auses serious eye damage. lay cause respiratory irritation.
flames an P233 K P261 A P280 W		Preventi	on:
		flames a P233 k P261 k P280 V	eep away from heat, hot surfaces, sparks, open d other ignition sources. No smoking. eep container tightly closed. void breathing mist or vapours. /ear protective gloves/ protective clothing/ eye / face protection/ hearing protection.
		Respons	e:
		with wate present a POISON P370 + F	 351 + P338 + P310 IF IN EYES: Rinse cautiously r for several minutes. Remove contact lenses, if nd easy to do. Continue rinsing. Immediately call a CENTER/ doctor. 378 In case of fire: Use dry sand, dry chemical or esistant foam to extinguish.

methyl methacrylate methacrylic acid 2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, phosphate 2,2'-[(4-methylphenyl)imino]bisethanol

Additional Labelling

EUH204

Contains isocyanates. May produce an allergic reaction.



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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

Chemical name	CAS-No.	Classification	Concent
	EC-No.		ration
	Index-No.		(% w/w)
	Registration number		(/0 00/00)
methyl methacrylate	80-62-6	Flam. Liq. 2; H225	>= 30 -
	201-297-1	Skin Irrit. 2; H315	< 50
	607-035-00-6	Skin Sens. 1; H317	
	01-2119452498-28	STOT SE 3; H335	
		(Respiratory system)	
exo-1,7,7-	7534-94-3	Skin Irrit. 2; H315	>= 2,5 -
trimethylbicyclo[2.2.1]hept-2-yl	231-403-1	Eye Irrit. 2; H319	< 10
methacrylate	607-134-00-4	STOT SE 3; H335	
	01-2119886505-27	(Respiratory system)	
		Aquatic Chronic 3;	
		H412	
		specific concentration	
		limit	
		STOT SE 3; H335	
		>= 10 %	
methacrylic acid	79-41-4	Acute Tox. 4; H302	>= 1 - <
,	201-204-4	Acute Tox. 4; H332	3
	607-088-00-5	Acute Tox. 3; H311	_
	01-2119463884-26	Skin Corr. 1A; H314	
		Eye Dam. 1; H318	
		STOT SE 3; H335	
		(Respiratory system)	
		(
		specific concentration	
		limit	
		STOT SE 3; H335	
		>= 1 %	
		Skin Corr. 1A; H314	
		>= 10 %	
		Skin Irrit. 2; H315	



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		1 - < 10 % Eye Dam. 1; H318 >= 3 % Eye Irrit. 2A; H319 1 - < 3 %	
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
2,2'-[(4- methylphenyl)imino]bisethanol	3077-12-1 221-359-1 01-2120791684-40	Acute Tox. 4; H302 Eye Dam. 1; H318 Skin Sens. 1; H317 Aquatic Chronic 3; H412	>= 1 - < 2,5
N,N-dimethylaniline	121-69-7 204-493-5 612-016-00-0	Acute Tox. 3; H301 Acute Tox. 3; H331 Acute Tox. 3; H311 Carc. 2; H351 STOT RE 2; H373 (spleen) Aquatic Chronic 2; H411	>= 0,25 - < 1
Substances with a workplace ex	posure limit :		_
Talc (Mg3H2(SiO3)4)	14807-96-6 238-877-9 01-2120140278-58		>= 10 - < 20

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 :	If skin irritation persists, call a physician. If on skin, rinse well with water. If on clothes, remove clothes.

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In case of eye contact		: Small amounts tissue damage	splashed into eyes can cause irreversible and blindness.

	In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Continue rinsing eyes during transport to hospital. 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. 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.

SECTION 5: Firefighting measures

5.1 E	xtinguishing 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 S	pecial 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
5.3 A	dvice for firefighters		
	Special protective equipment for firefighters	:	Wear self-contained breathing apparatus for firefighting if necessary.
	Specific extinguishing methods	:	No data is available on the product itself.
	Further information	:	Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must



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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.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions	: 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.

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	:	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 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.
	Open drum carefully as content may be under pressure. To avoid spills during handling keep bottle on a metal tray.

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				Dispose of rinse regulations.	water in accordance with local and national
		on protection against d 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.
	Hygien	e measures	:		ot eat or drink. When using do not smoke. ore breaks and at the end of workday.
7.2	Conditi	ons for safe storage,	inc	luding any incom	patibilities
		ements for storage 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
	Recorr temper	mended storage ature	:	2 - 8 °C	
		r information on e stability	:	Stable under norr	nal conditions.
7.3	Specifie	c end use(s)			
	Specifi	c 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				
		VME	50 ppm	FR VLE	
			205 mg/m3		
Further information	Regulatory bi	Regulatory binding exposure limits			
		VLCT (VLE)	100 ppm	FR VLE	
			410 mg/m3		
Further information	Regulatory binding exposure limits				
Talc	14807-96-6	TWA (Respirable	0,1 mg/m3	2004/37/EC	



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(Mg3H2(SiO3)4)		dust)			
Further information	Carcinogens	or mutagens			
methacrylic acid	79-41-4	VME	20 ppm	FR VLE	
			70 mg/m3		
Further information	Indicative exp	Indicative exposure limits			
N,N-	121-69-7	VME	5 ppm	FR VLE	
dimethylaniline			25 mg/m3		
Further information	Carcinogenic	Carcinogenic category 2 - Possibly carcinogenic to humans, Risk of			
	penetration through skin, Indicative exposure limits				

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

Substance name	End Use	Exposure routes	Potential health effects	Value
2-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
exo-1,7,7- trimethylbicyclo[2.2.1] hept-2-yl methacrylate	Workers	Dermal	Systemic effects, Long-term exposure	1,04 mg/kg
	Consumer use	Dermal	Systemic effects, Long-term exposure	0,625 mg/kg
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
2,2'-[(4- methylphenyl)imino]bi sethanol	Workers	Inhalation	Long-term systemic effects	3,29 mg/m3
	Workers	Dermal	Long-term systemic effects	0,47 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	0,58 mg/m3
	Consumers	Dermal	Long-term systemic effects	0,17 mg/kg bw/day
	Consumers	Oral	Long-term systemic effects	0,16 mg/kg bw/day
Silicon, amorphous	Workers	Inhalation	Long-term systemic effects	4 mg/m3

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



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Substance name	Environmental Compartment	Value			
2-Propenoic acid, 2-methyl-, 2- hydroxyethyl ester, phosphate	Fresh water	0,068 mg/l			
	Remarks: Assessment Factors				
	Marine water	0,007 mg/l			
	Remarks: Assessment Factors				
	Sewage treatment plant	0,546 mg/l			
	Remarks: Assessment Factors				
	Fresh water sediment	0,481 mg/kg dry weight (d.w.)			
	Remarks:Equilibrium method	· · · ·			
	Marine sediment	0,048 mg/kg dry weight (d.w.)			
	Remarks:Equilibrium method				
	Soil	0,056 mg/kg dry weight (d.w.)			
	Remarks:Equilibrium method				
methacrylic acid	Fresh water	0,82 mg/l			
	Remarks: Assessment Factors				
	Marine water	0,82 mg/l			
	Remarks: Assessment Factors				
	Freshwater - intermittent	0,82 mg/l			
	Remarks:Assessment Factors	· · · · ·			
	Sewage treatment plant	10 mg/l			
	Remarks:Assessment Factors	· · · · ·			
	Soil	1,2 mg/kg			
	Remarks:Equilibrium method				
N,N-dimethylaniline	Fresh water	0,023 mg/l			
· · · · · · · · · · · · · · · · · · ·	Marine water	0,002 mg/l			
	Freshwater - intermittent	0,023 mg/l			
	Sewage treatment plant	5,948 mg/l			
	Fresh water sediment	4,942 mg/kg			
	Marine sediment	4,942 mg/kg			
	Soil	1,906 mg/kg			
2,2'-[(4- methylphenyl)imino]bisethanol	Fresh water	0,026 mg/l			
	Remarks: Assessment Factors				
	Marine water	0,003 mg/l			
	Remarks: Assessment Factors				
	Sewage treatment plant	10 mg/l			
	Remarks:Assessment Factors				
	Fresh water sediment	0,121 mg/kg dry weight (d.w.)			
	Remarks:Equilibrium method	· · · ·			
	Marine sediment	0,012 mg/kg dry weight (d.w.)			
	Remarks:Equilibrium method				
	Soil	0,009 mg/kg dry weight (d.w.)			
	Remarks:Equilibrium method	· · · · ·			

8.2 Exposure controls

Personal protective equipment

HUNTSMAN

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Ey	e/face protection	Tightly fitting	tle with pure water safety goggles ield and protective suit for abnormal processing
Ma	nd protection aterial eak through time	: butyl-rubber : >8 h	
Ma	aterial	: Solvent-resist	ant gloves (butyl-rubber)
	aterial eak through time	: Nitrile rubber : 10 - 480 min	
Re	marks	approved star chemical proc necessary. Th	stant, impervious gloves complying with an ndard should be worn at all times when handling lucts if a risk assessment indicates this is ne suitability for a specific workplace should be in the producers of the protective gloves.
Sk	in and body protection		othing protection according to the amount and of the dangerous substance at the work place.
Re	spiratory protection	been classifie 1), and which exposure to re particular care	G! This product contains quartz, which has d by IARC as carcinogenic for humans (Group can cause silicosis and lung cancer following espirable dust. It is therefore important to take to avoid inhalation exposure when processing cured material (e.g. grinding, ng).

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	: paste	
Colour	: grey	
Odour	: ester-like	
Odour Threshold	: No data is available on the product itself.	
рН	: Not applicable	
Melting point/freezing point	: No data is available on the product itself.	
Boiling point	: > 100 °C Method: estimated	
Flash point	: 10 °C Method: closed cup	



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ł	Flamma	ability (solid, gas)	:	No data is availa	ble on the product itsel	f.
		explosion limit / Upper bility limit	:	12,5 %(V) Method: estimate	ed	
		explosion limit / Lower bility limit	:	2,1 %(V) Method: estimate	ed	
N	Vapour	pressure	:	< 38 hPa (20 °C) Method: estimate		
I	Relative	e vapour density	:	ca. 1 (20 °C)		
I	Relative	e density	: No data		ble on the product itsel	f.
I	Density	,	:	1,3 g/cm3 (20 °C)	
\$	Solubili Wate	ty(ies) er solubility	:	slightly soluble M	lethod: estimated	
	Solu	bility in other solvents	:	No data is availa	ble on the product itsel	f.
	Partitio octanol	n coefficient: n- /water	:	No data is availa	ble on the product itsel	f.
1	Auto-ig	nition temperature	:	430 °C		
I	Decom	position temperature	:	> 200 °C		
Ň	Viscosi [.] Visco	ty osity, dynamic	:	55 000 - 80 000	mPa.s (23 °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 reactions

Hazardous reactions	:	Vapours may form explosive mixture with air.
---------------------	---	----------------------------------------------

10.4 Conditions to avoid

Conditions to avoid : Heat, flames and sparks.



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10.5 Incompatible materials

Materials to avoid	:	None known.

10.6 Hazardous decomposition products

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		
Product:		
Acute oral toxicity	:	Acute toxicity estimate: > 2 000 mg/kg Method: Calculation method
Acute inhalation toxicity	:	Acute toxicity estimate: > 20 mg/l Exposure time: 4 h Test atmosphere: vapour Method: Calculation method
Acute dermal toxicity	:	Acute toxicity estimate: > 2 000 mg/kg Method: Calculation method
Components:		
methyl methacrylate:		
Acute oral toxicity	:	LD50 (Rat): 7 900 - 9 400 mg/kg
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.
Acute dermal toxicity	:	LD50 (Rabbit, male): > 5 000 mg/kg Method: OECD Test Guideline 402
exo-1,7,7-trimethylbicyclo[2	2.2.	1]hept-2-yl methacrylate:
Acute oral toxicity	:	LD50 (Rat, male and female): 3 160 mg/kg Method: No information available. GLP: no Assessment: The component/mixture is low toxic after single ingestion.
methacrylic acid:		
Acute oral toxicity	:	LD50 (Rat, male): 1 320 mg/kg Method: OECD Test Guideline 401 GLP: no Assessment: The component/mixture is moderately toxic after single ingestion.



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Acute	inhalation toxicity		Exposure time Test atmosph Method: OEC GLP: yes	ere: vapour D Test Guideline 403 The component/mixture is moderately toxic after	
Acute	e dermal toxicity		LD50 (Rabbit): 500 - 1 000 mg/kg GLP: no Assessment: The component/mixture is toxic after single contact with skin.		
2-Pro	penoic acid, 2-methy	yl-, 2-h	ydroxyethyl e	ster, phosphate:	
	oral toxicity	:	LD50 (Rat, fer Method: OEC GLP: yes	nale): > 2 000 mg/kg D Test Guideline 425 The component/mixture is low toxic after single	
2,2'-[((4-methylphenyl)imir	no]bise	thanol:		
Acute	e oral toxicity		Method: OEC GLP: no	ale and female): 959 mg/kg D Test Guideline 401 The component/mixture is moderately toxic after n.	
Acute	e dermal toxicity		 LD50 (Rat, male and female): > 2 000 mg/kg Method: OECD Test Guideline 402 GLP: yes Assessment: The substance or mixture has no acu toxicity 		
N.N-d	limethylaniline:				
	oral toxicity			51 mg/kg e: No data available mation available.	
				s): 50 mg/kg e: No data available mation available.	
Acute	inhalation toxicity		: LCLo (Rat): 250 mg/m3 Exposure time: 4 h Method: Other guidelines Assessment: The component/mixture is moderately toxic short term inhalation.		
Acute	e dermal toxicity		LD50 (Rabbit) Method: see u	: 1 692 mg/kg ser defined free text	



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Skin o	corrosion/irritation		
Comp	oonents:		
methy	yl methacrylate:		
Speci		: Rabbit	
Metho		: OPPTS 870.25	00
Resul	t	: Skin irritation	
exo-1	,7,7-trimethylbicycle	o[2.2.1]hept-2-yl meth	acrylate:
Speci		: Rabbit	
Metho Resul		: OECD Test Gu : Mild skin irritatio	
GLP	l	: yes	
		, , , , , , , , , , , , , , , , , , ,	
metha	acrylic acid:		
Speci		: Rabbit	
	sment	: Causes severe	
Metho Resul		: OECD Test Gu	beine 404 beine 404 beine to tissue.
GLP	L	: yes	
2-Pro	nenoic acid 2-meth	yl-, 2-hydroxyethyl es	ter nhosnhate:
Speci	-	: Human	ter, prospilate.
Metho		: OECD Test Gu	ideline 431
Resul	t	: Causes severe	burns.
GLP		: yes	
Speci	es	: Rabbit	
Metho		: OECD Test Gu	
Resul	t	: Causes severe	burns.
GLP		: yes	
2,2'-[(4-methylphenyl)imi	no]bisethanol:	
Speci		: Rabbit	
	sment	: No skin irritation	
Metho Resul		: Other guideline : No skin irritation	
GLP	L	: no skin initation : no	I
N.N-d	imethylaniline:		
Speci	-	: Rabbit	
	sure time	: 4 h	
Asses	sment	: No skin irritation	
Metho		: OECD Test Gu	
Resul GLP	τ	: No skin irritation	1
		: yes	



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Serious eye damage/eye irritation

Components:

exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate:

Species	:	Rabbit
Method	:	Draize Test
Result	:	No eye irritation

methacrylic acid:

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

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

Result	:	Corrosive
--------	---	-----------

2,2'-[(4-methylphenyl)imino]bisethanol:

Species	:	Rabbit
Assessment	:	Risk of serious damage to eyes.
Method	:	OECD Test Guideline 405
Result	:	Risk of serious damage to eyes.
GLP	:	no

N,N-dimethylaniline:

Species	:	Rabbit
Exposure time	:	24 h
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.

exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate:

Test Type	:	Maximisation Test
Exposure routes	:	Dermal
Species	:	Guinea pig
Method	:	OECD Test Guideline 406
Result	:	Does not cause skin sensitisation.
GLP	:	yes

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Asses	sment	: Mild skin irrita	ation	
metha	acrylic acid:			
Test T	-	: Buehler Test		
	ure routes	: Skin		
Specie		: Guinea pig		
•	sment		e sensitisation on laboratory animals.	
Metho		: OECD Test (
Result			e sensitisation on laboratory animals.	
2-Proi	penoic acid, 2-meth	vl 2-hvdroxvethvl	ester, phosphate:	
Test T			node assay (LLNA)	
Specie		: Mouse	IDUE ASSAY (LLINA)	
Metho		: OECD Test (Suideline 129	
Result			is a skin sensitiser, sub-category 1B.	
GLP		: yes		
UL:		. 900		
2,2'-[(4	4-methylphenyl)imi	no]bisethanol:		
Test T	vpe	: Local lymph	node assay (LLNA)	
Specie		: Mouse		
	sment		ensitisation by skin contact.	
Metho			Guideline 429	
Result			May cause sensitisation by skin contact.	
GLP		: yes		
Rema	rks	: Information g substances.	iven is based on data obtained from similar	
N,N-d	imethylaniline:			
Specie	25	: Humans		
	sment		ise skin sensitisation.	
Metho		: see user defi		
Result			ise skin sensitisation.	
	cell mutagenicity			
	onents: u mothecrylate:			
-	I methacrylate:			
Genot	oxicity in vitro	Test system:	licrobial mutagenesis assay (Ames test) Salmonella typhimurium CD Test Guideline 471 tive	
avo_1	,7,7-trimethylbicycl	-		
	oxicity in vitro		vitro mammalian cell gene mutation test	
Genol			Chinese hamster fibroblasts	
			tivation: with and without metabolic activation	
			CD Test Guideline 476	
		Result: negat		
		GLP: yes		
		OLI . 900		



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		GLP: yes	
		Test system: H Metabolic activ	omosome aberration test in vitro uman lymphocytes ation: with and without metabolic activation Test Guideline 473 e
2,2'-[(4-methylphenyl)imii	no]bisethanol:	
Geno	otoxicity in vitro	Test system: S Metabolic activ	erse mutation assay almonella typhimurium ation: with and without metabolic activation Test Guideline 471 e
		Test system: H Metabolic activ Method: OECD Result: negativ GLP: yes	mation given is based on data obtained from
		Test system: m Metabolic activ Method: OECD Result: negativ GLP: yes	mation given is based on data obtained from
N,N-c	dimethylaniline:		
	otoxicity in vitro	Test system: C	•
		Concentration:	almonella typhimurium 3, 10, 33, 100, 333, 1000 μg/Ρ ation: with and without metabolic activation guidelines
		Concentration:	almonella typhimurium 0.0025, 0.005,0.025, 0.05 mg/p ation: with and without metabolic activation



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		Result: negativ	e	
		Concentration:	almonella typhimurium 0 - 1000 ug/plate ation: with and without metabolic activation guidelines	
Carci	nogenicity			
Com	ponents:			
meth	yl methacrylate:			
Expos Dose	cation Route sure time uency of Treatment EL	 Rat, male and Oral 2 Years 6, 60, 2000 ppr once daily 90,3 mg/kg bw/ negative 	m	
meth	acrylic acid:			
Expos	cation Route sure time Jency of Treatment EL	 Rat, male and inhalation (vap) 102 weeks 5 days/week >= 2,05 mg/kg OECD Test Gu 	our) body weight	
Expos Dose	cation Route sure time uency of Treatment EL	Mouse, male a inhalation (vap 102 weeks ca. 2.05 and 4. 5 days/week ca. 2,05 mg/l OECD Test Gu	our) 1 mg/L	
N.N-d	limethylaniline:			
Speci Applic Expos Dose	ies cation Route sure time uency of Treatment EL od	 Rat, male and Oral 2 years 0, 3, or 30 mg/l 5 day per weel 3 - 30 mg/kg be OECD Guidelin positive 	kg/day ç ody weight	
	cation Route sure time od	 Rat, male Oral 2 years OECD Guideline, other positive 		



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Speci Expos Resul	sure time	: Rat, female : 2 years : negative	
	nogenicity - ssment	: Limited evid	ence of carcinogenicity in animal studies
Repro	oductive toxicity		
Com	oonents:		
meth	yl methacrylate:		
	ts on foetal opment	Dose: 99, 30 Teratogenic Embryo-foe Method: OE	t Route: Inhalation 04, 1178 ppm ity: NOAEC F1: 8 300 mg/m ³ tal toxicity: NOAEC F1: 8 300 mg/m ³ CD Test Guideline 414 eratogenic effects
exo-1	,7,7-trimethylbicyclo	o[2.2.1]hept-2-yl m	ethacrylate:
Effect	ts on fertility	Application Dose: 0 , 25 Frequency o General Toy General Toy	t, male and female Route: Oral , 100, 500 mg/ of Treatment: 7 days/week kicity - Parent: NOAEL: 25 mg/kg body weight kicity F1: NOAEL: 500 mg/kg body weight CD Test Guideline 421
	ts on foetal opment	Application Dose: 0, 25 Frequency o Developmen	t, male and female Route: Oral 100, 500 mg/ of Treatment: 7 days ntal Toxicity: NOAEL: > 500 mg/kg body weight CD Test Guideline 421
meth	acrylic acid:		
	ts on fertility	Species: Ra Application Dose: 0, 50 General To Fertility: NO Symptoms:	Two-generation study t, male and female Route: Oral 150, 450 mg/kg/day kicity - Parent: NOAEL: 50 mg/kg body weight AEL F1: 400 mg/kg body weight Reduced body weight CD Test Guideline 416
	ts on foetal opment	Dose: 0, 50	



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		General Toxici Developmenta Embryo-foetal Method: OECE	Treatment: 7 days/week ty Maternal: NOAEL: 200 ppm I Toxicity: NOAEL: >= 300 ppm toxicity: NOAEC F1: 300 ppm D Test Guideline 414 ects on fertility and early embryonic were detected.
		Application Ro Dose: 50, 150, Duration of Sir Frequency of T General Toxici Developmenta	it, male and female ute: Oral , 450 milligram per kilogram ngle Treatment: 23 d Freatment: 7 days/week (ty Maternal: NOAEL: 50 mg/kg body weight I Toxicity: NOAEL F1: 450 mg/kg body weight ects on fertility and early embryonic
2-Pro	openoic acid, 2-meth	yl-, 2-hydroxyethyl e	ster, phosphate:
	ets on foetal lopment	General Toxici Developmenta	females
2,2'-[[(4-methylphenyl)imii	no]bisethanol:	
Effec	lopment	: Test Type: Pre Species: Rat, f Application Ro Dose: 60/200/6 Duration of Sir General Toxici Developmenta Method: OECE GLP: yes	iemales ute: Oral 600 milligram per kilogram ngle Treatment: 15 d ty Maternal: NOAEL: 200 mg/kg body weight I Toxicity: NOAEL: >= 600 mg/kg body weight D Test Guideline 414 rmation given is based on data obtained from
N,N-0	dimethylaniline:		
	cts on fertility	: Species: Mous Application Ro Dose: 2920 m Method: This in	ute: Oral
	ets on foetal lopment		ute: Oral Freatment: 7 - 13 days I Toxicity: NOAEL: 365 mg/kg body weight



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sion	Revision Date: 03.04.2023	SDS Number: 400001010407	Date of last issue: 14.07.2020 Date of first issue: 03.04.2023
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		Result: No adv	erse effects
STO	r - single exposure		
<u>Com</u>	ponents:		
meth	yl methacrylate:		
	sure routes	: Inhalation	
	et Organs	: Respiratory Tra	act
-	ssment		piratory irritation.
moth	acrylic acid:		
	acrylic acid: sure routes	: Inhalation	
	et Organs	: Respiratory Tra	act
	ssment	: The substance	or mixture is classified as specific target organ exposure, category 3 with respiratory tract
STO	- repeated exposur	e	
	ponents:		
N,N-c	limethylaniline:		
Targe	et Organs	: spleen	
-	ssment	: The substance	or mixture is classified as specific target organ ted exposure, category 2.
Repe	ated dose toxicity		
Com	ponents:		
meth	yl methacrylate:		
Speci	ies	: Rat, male and	female
NOA		: 124,1 mg/kg	
	cation Route	: oral (drinking w	vater)
	sure time	: 2 years	
Dose	per of exposures	: daily : 6, 60, 2000 ppi	m
2000		. 0, 00, 2000 pp.	
exo-1	,7,7-trimethylbicycl	o[2.2.1]hept-2-yl meth	-
Speci		: Rat, male and	female
NOA		: 25 mg/kg	
Application Route : oral (gavage)			
Number of exposures : 7 days a week			
Dose : 0, 25, 100, 500 mg/k			
Metho GLP	Ju	: Subchronic tox : yes	асцу
	et Organs	: Kidney, Liver	
-	-		
	acrylic acid:		
Speci		: Rat, male and	
		- 357 - 1737 mm	/11) 5

: 352 - 1232 mg/m3 : inhalation (vapour)

Application Route

NOEC



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Test atmosphere Exposure time	: vapour : 90 d	
Number of exposures	: 6 h	
Dose	: 70/352/1232 mg/m3	
Subsequent observation	: 5 days/week	
period		
Method	: OECD Test Guideline	413
GLP	: yes	

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

2,2'-[(4-methylphenyl)imino]bisethanol:

Species	:	Rat, male and female
NOAEL	:	100 mg/kg
Application Route	:	Oral
Exposure time	:	28 d
Number of exposures	:	daily
Dose	:	100/300/600/1000 mg/kg bw/day
Method	:	OECD Test Guideline 407
GLP	:	yes
Remarks	:	Information given is based on data obtained from similar substances.

N,N-dimethylaniline:

Species NOAEL Application Route Exposure time Number of exposures Dose Method	:	Rat, male and female 31,3 mg/kg oral (gavage) 14 days 5 days/week 93.75, 187.5, 375, 750 or 1500 No information available.
Species LOEC Application Route Exposure time Dose Method	:	Rat 0,3 mg/m3 Inhalation 24 hr/day for 100 days 0.3 mg/m3 Subchronic toxicity

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 human expos	ure
No data available	
Toxicology, Metabolism, Distri	bution
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 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			
exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate:					
Toxicity to fish	:	LC50 (Danio rerio (zebra fish)): 1,79 mg/l Exposure time: 96 h			



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			Test Type: semi-s Method: OECD To GLP: yes					
Toxicity to daphnia and other aquatic invertebrates		:	LC50 (Daphnia magna (Water flea)): 2,57 mg/l Exposure time: 48 h Test Type: semi-static test Method: OECD Test Guideline 202 GLP: yes					
Toxicity to algae/aquatic plants		:	ErC50 (Pseudokirchneriella subcapitata (green algae)): 2,60 mg/l Exposure time: 96 h Test Type: static test Method: OECD Test Guideline 201 GLP: yes		algae)): 2,66			
aquatic	to daphnia and other invertebrates c toxicity)	:	NOEC: 0,233 mg/ Exposure time: 21 Species: Daphnia Test Type: semi-s Method: OECD To GLP: yes	l d magna (Water flea) static test				

methacrylic acid:

Toxicity to fish	: LC50 (Oncorhynchus mykiss (rainbow trout)): 85 mg/l
	End point: mortality
	Exposure time: 96 h
	Test Type: flow-through test
	Test substance: Fresh water
	Method: Fish Acute Toxicity Test
	GLP: yes
	Remarks: Toxic to aquatic organisms.

- Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): > 130 mg/l End point: Immobilization aquatic invertebrates Exposure time: 48 h Test Type: flow-through test Analytical monitoring: yes Test substance: Fresh water Method: Aquatic Invertebrate Acute Toxicity Test, Freshwater Daphnids GLP: yes
- Toxicity to algae/aquatic ErC50 (Selenastrum capricornutum (green algae)): 45 mg/l 2 Exposure time: 72 h plants Test Type: static test Analytical monitoring: yes Test substance: Fresh water Method: OECD Test Guideline 201 GLP: yes

NOEC (Selenastrum capricornutum (green algae)): 8,2 mg/l Exposure time: 72 h



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		Test Type: stati Analytical monit Test substance Method: OECD GLP: yes	toring: yes
Тох	icity to microorganisms	: EC50 (Pseudor Exposure time: Test Type: stati Analytical monin Test substance Method: DIN 38 GLP: yes	c test toring: no : Fresh water
Tox toxid	icity to fish (Chronic city)	Test Type: flow Analytical monit Test substance	35 d ydanio rerio (zebrafish) -through test toring: yes
aqu	icity to daphnia and other atic invertebrates ronic toxicity)	Exposure time: Species: Daphr Test Type: flow Analytical monit Test substance	21 d nia magna (Water flea) -through test toring: yes
2-P	ropenoic acid, 2-methyl-	, 2-hydroxyethyl es	ter, phosphate:
	icity to fish	: LC50 (Oncorhy Exposure time: Test Type: stati Analytical monit	nchus mykiss (rainbow trout)): > 112 mg/l 96 h c test
	icity to daphnia and other atic invertebrates	Exposure time: Test Type: stati Analytical moni	c test
Tox plar	icity to algae/aquatic its	Exposure time: Test Type: stati Analytical moni	c test

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		Exposure tim Test Type: st Analytical mo	atic test
2,2	'-[(4-methylphenyl)imino]bisethanol:	
	xicity to fish	: LC50 (Cyprin End point: mo Exposure tim Test Type: st Analytical mo Test substan Method: OEC GLP: yes	e: 96 h atic test
	xicity to daphnia and other uatic invertebrates	End point: Im Exposure tim Test Type: st Analytical mo Test substan Method: OEC GLP: yes	e: 48 h atic test onitoring: yes ce: Fresh water CD Test Guideline 202 ormation given is based on data obtained from
	xicity to algae/aquatic nts	mg/l Exposure tim Test Type: st Analytical mc Test substan Method: OEC GLP: yes Remarks: Ba NOEC (Pseu mg/l Exposure tim Test Type: st Analytical mc Test substan Method: OEC GLP: yes	atic test onitoring: yes ce: Fresh water CD Test Guideline 201 sed on data from similar materials dokirchneriella subcapitata (green algae)): > 100 e: 72 h atic test
То	xicity to microorganisms	Exposure tim Test Type: st Analytical mo	atic test



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		GLP: yes	CD Test Guideline 209 Iformation given is based on data obtained from tances.
N,N-d	limethylaniline:		
Toxici	ity to fish	Exposure til Test Type: f	phales promelas (fathead minnow)): 78,2 mg/l ne: 96 h low-through test e user defined free text
	ity to daphnia and other ic invertebrates	Exposure tin Test Type: s Method: see Remarks: V	
Toxici plants	ity to algae/aquatic	(algae)): 22 Exposure tii Test Type: s	me: 72 h
Toxici	ity to microorganisms	: LC50 (Othe End point: C Exposure tin Test Type: s Method: see	Growth rate me: 24 h
Toxici toxicit	ity to fish (Chronic ty)	Test Type:	me: 6 d rprinus carpio (Carp)
Toxici organ	ity to soil dwelling isms		•
Plant	toxicity	Test period: Species: La	Growth inhibition
		57,621 mg/l Test period:	

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	SDS Number: 400001010407	Date of last issue: 14.07.2020 Date of first issue: 03.04.2023		
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	Species: Lactuca sativa (lettuce) Method: see user defined free text			
	: LC50 (Brachydani Exposure time: 24	io rerio (zebrafish)): > 100 mg/l ⊦h		
adahilit	v			

12.2 Persistence and degradability ~

Talc (Mg3H2(SiO3)4):

Toxicity to fish

methyl methacrylate:		
Biodegradability	:	Result: Readily biodegradable. Biodegradation: > 60 % Exposure time: 28 d

exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate:

Biodegradability	:	Test Type: aerobic
		Inoculum: activated sludge
		Result: Readily biodegradable.
		Exposure time: 28 d
		Method: OECD Test Guideline 310
		GLP: yes

methacrylic acid:

Biodegradability	:	Test Type: aerobic Inoculum: activated sludge Concentration: 3 mg/l Result: Readily biodegradable. Biodegradation: 86 % Exposure time: 28 d Method: OECD Test Guideline 301D
		Method: OECD Test Guideline 301D GLP: yes

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

Biodegradability	:	Test Type: aerobic Inoculum: activated sludge, non-adapted Concentration: 54,6 mg/l Result: Readily biodegradable. Biodegradation: 91,8 % Related to: Dissolved organic carbon (DOC) Exposure time: 28 d Method: OECD Test Guideline 301F
		Method: OECD Test Guideline 301F GLP: yes

2,2'-[(4-methylphenyl)imino]bisethanol:

Biodegradability	: Test Type: aerobic
	Inoculum: activated sludge, non-adapted
	Concentration: 18 mg/l
	Result: Not biodegradable
	Biodegradation: 1,5 %
	Exposure time: 28 d



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			D Test Guideline 301B
		GLP: yes Remarks: Bas	ed on data from similar materials
		Remarks. Das	
N,N-o	dimethylaniline:		
Biode	egradability	: Result: Readil Method: Other	
12.3 Bioa	ccumulative potentia	l	
Com	ponents:		
	yl methacrylate:		
	cumulation	: Bioconcentrati	on factor (BCF): 3
	ion coefficient: n- ol/water	: log Pow: 1,38	
meth	acrylic acid:		
Partit	ion coefficient: n- nol/water	: log Pow: 0,93 pH: 2,2	(22 °C)
2,2'-[(4-methylphenyl)imin	o]bisethanol:	
	ion coefficient: n-	: log Pow: 2 (35	э°С)
octan	ol/water	pH: 7 Method: OECI	D Test Guideline 117
NI NI Z	dimethylaniline:		
-	cumulation	: Species: Fish	
Diode		Bioconcentrati	on factor (BCF): 16 ser defined free text
12.4 Mobi	ility in soil		
No da	ata available		
12.5 Resu	Its of PBT and vPvB	assessment	
Prod	uct:		
Asse	ssment	to be either pe	e/mixture contains no components considered ersistent, bioaccumulative and toxic (PBT), or t and very bioaccumulative (vPvB) at levels of r.
12.6 Endo	ocrine disrupting pro	perties	
Prod	uct:		
Asse	ssment	considered to to REACH Art	e/mixture does not contain components have endocrine disrupting properties according icle 57(f) or Commission Delegated regulation 00 or Commission Regulation (EU) 2018/605 at or higher

according to Regulation (EC) No. 1907/2006

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12.7 Other adverse effects

Product:

Additional ecological	:	An environmental hazard cannot be excluded in the event of
information		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

14.1 UN number or ID number				
ADN	:	UN 1133		
ADR	:	UN 1133		
RID	:	UN 1133		
IMDG	:	UN 1133		
ΙΑΤΑ	:	UN 1133		
14.2 UN proper shipping name				
ADN	:	ADHESIVES		
ADR	:	ADHESIVES		
RID	:	ADHESIVES		
IMDG	:	ADHESIVES		
ΙΑΤΑ	:	Adhesives		
14.3 Transport hazard class(es)				
		Class	Subsidiary risks	
ADN	:	3		
ADR	:	3		



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RID		: 3	
IMD	G	: 3	
ΙΑΤ		: 3	
14.4 Pac	king group		
Clas	king group sification Code ard Identification Number	: II : F1 : 33 : 3	
Clas Haz Labo	king group sification Code ard Identification Number	: II : F1 : 33 : 3 : (D/E)	
Clas	king group sification Code ard Identification Number	: II : F1 : 33 : 3	
Lab	king group	: II : 3 : F-E, S-D	
Pac aircı Pac	king instruction (LQ) king group	: 364 : Y341 : II : Flammable Liqu	uids
Pac (pas Pac	A (Passenger) king instruction senger aircraft) king instruction (LQ) king group els	: 353 : Y341 : II : Flammable Liqu	uids
14.5 Env	ironmental hazards		
ADN Envi	I ironmentally hazardous	: no	
ADF Envi	R ironmentally hazardous	: no	
RID Envi	ironmentally hazardous	: no	
IMD Mar	G ine pollutant	: no	

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14.6 Special precautions for user

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

14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

REACH - List of substances subject to authorisati (Annex XIV)	ion	: Not applicable
REACH - Candidate List of Substances of Very H Concern for Authorisation (Article 59). REACH - Restrictions on the manufacture, placing the market and use of certain dangerous substan- mixtures and articles (Annex XVII)	g on	 This product does not contain substances of very high concern (Regulation (EC) No 1907/2006 (REACH), Article 57). Conditions of restriction for the following entries should be considered: Number on list 75, 3
		If you intend to use this product as tattoo ink, please contact your vendor.
Seveso II - Directive 2003/105/EC amending Council Directive 96/82/EC on the control of major-accident hazards involving dangerous substances	7b	Highly flammable
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
Occupational Illnesses (R- : 65, 82, 15 ter, 461-3, France)	15, 15 I	bis, 51, 36, 25
Installations classified for the : 4331 protection of the environment (Environment Code R511-9)		

Other regulations:

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



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The c	components of this p	roduct are reported i	in the following inventories:
DSL			ontains one or several components that are not an DSL nor NDSL.
AIIC		: Not in complia	nce with the inventory
NZIO	C	: On the invento	ry, or in compliance with the inventory
ENCS	3	: Not in complia	nce with the inventory
KECI		: Not in complia	nce with the inventory
PICC	S	: Not in complia	nce with the inventory
IECS	С		ed to be imported / manufactured only by the e contact your Huntsman sales representative nation.
TCSI		: Not in complia	nce with the inventory
TSCA	A	: Product contain	ns substance(s) not listed on 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 :	Highly flammable liquid and vapour.
H301 :	Toxic if swallowed.
H302 :	Harmful if swallowed.
H311 :	Toxic in contact with skin.
H314 :	Causes severe skin burns and eye damage.
H315 :	Causes skin irritation.
H317 :	May cause an allergic skin reaction.
H318 :	Causes serious eye damage.



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H319 H331 H332 H335 H351 H373		 Causes serious Toxic if inhaled. Harmful if inhale May cause respinsion Suspected of cause damages May cause damages 	d. iratory irritation.	
H411 H412		: Toxic to aquatic : Harmful to aqua	life with long lasting effects. tic life with long lasting effects.	
Full	ext of other abbrevia	tions		
Aqua Carc Eye I Flam Skin Skin Skin STO 2004	Dam. rrit. . Liq. Corr. Irrit. Sens. T RE	 Carcinogenicity Serious eye dam Eye irritation Flammable liquid Skin corrosion Skin irritation Skin sensitisatio Specific target o Specific target o Europe. Directive from the risks re at work 	ds	
FR V 2004 2009 2009 FR V FR V		a third list of indi implementation Commission Dire France. Occupa Long term expos Limit Value - eig Short term expo	a third list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC and amending Commission Directive 2000/39/EC France. Occupational Exposure Limits Long term exposure limit Limit Value - eight hours Short term exposure limit Time Weighted Average Short Term Exposure Limit	
	ier information sification of the mixtu	ire:	Classification procedure:	
	. Liq. 2	H225	Based on product data or assessment	

Flam. Liq. 2	H225	Based on product data or assessmer
Skin Irrit. 2	H315	Calculation method
Eye Dam. 1	H318	Calculation method
Skin Sens. 1	H317	Calculation method
STOT SE 3	H335	Calculation method

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

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

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

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