according to Regulation (EC) No. 1907/2006

ARALDITE® 2053-05 A

Version	Revision Date:	SDS Number:
1.2	10.06.2022	40000010923



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

1.1 Product identifier	
Trade name	: ARALDITE® 2053-05 A
Unique Formula Identifier (UFI)	: YSG5-U0DP-S00N-HGWN
1.2 Relevant identified uses of the	e substance or mixture and uses advised against
Use of the Substance/Mixture	: Resin
1.3 Details of the supplier of the s	safety data sheet
Company Address	 Huntsman Advanced Materials (Europe)BVBA Everslaan 45 3078 Everberg Belgium
Telephone Telefax	: +41 61 299 20 41 : +41 61 299 20 40
E-mail address of person responsible for the SDS	: Global_Product_EHS_AdMat@huntsman.com
1.4 Emergency telephone numbe	r
Emergency telephone number	 Centres Antipoison et de Toxicovigilance: ANGERS: 02 41 48 21 21 BORDEAUX: 05 56 96 40 80 LILLE: 0 825 812 822 LYON: 04 72 11 69 11 MARSEILLE 04 91 75 25 25 NANCY: 03 83 32 36 36 PARIS: 01 40 05 48 48 RENNES: 02 99 59 22 22 STRASBOURG: 03 88 37 37 37 TOULOUSE: 05 61 77 74 47 EUROPE: +32 35 75 1234 France ORFILA: +33(0)145425959 ASIA: +65 6336-6011 China: +86 20 39377888 +86 532 83889090 India: + 91 22 42 87 5333 Australia: 1800 786 152

New Zealand: 0800 767 437 USA: +1/800/424.9300

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H315: Causes skin irritation.

H318: Causes serious eye damage.

H335: May cause respiratory irritation.

H317: May cause an allergic skin reaction.

H412: Harmful to aquatic life with long lasting

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SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)Flammable liquids, Category 2H225: Highly flammable liquid and vapour.

Skin irritation, Category 2

Serious eye damage, Category 1

Skin sensitisation, Category 1

Specific target organ toxicity - single exposure, Category 3, Respiratory system

Long-term (chronic) aquatic hazard, Category 3

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Labelling (REGULATION (EC) No 1272/2008)							
Hazard pictograms :							
Signal word :	Danger						
Hazard statements :	H225 H315 H317 H318 H335 H412	Highly flammable liquid and vapour. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage. May cause respiratory irritation. Harmful to aquatic life with long lasting effects.					
Precautionary statements :	Prevention:						
	P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.					
	P233	Keep container tightly closed.					
	P261	Avoid breathing mist or vapours.					
	P280	Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.					
	Response:						
	P305 + P351 + P3	338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.					
	P370 + P378	In case of fire: Use dry sand, dry chemical					

effects.

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or alcohol-resistant foam to extinguish.

Hazardous components which must be listed on the label: methyl methacrylate methacrylic acid octadecyl methacrylate 2,2'-[(4-methylphenyl)imino]bisethanol

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

Chemical nature

: Adhesives

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; H302 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 % Skin Corr. 1A; H314 >= 10 % Skin Irrit. 2; H315 1 - < 10 %	>= 5 - < 10

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			Eye Dam. 1; H318 >= 3 % Eye Irrit. 2A; H319 1 - < 3 %	
octad	ecyl methacrylate	32360-05-7 251-013-5 607-134-00-4 01-2119489777-	Skin Irrit. 2; H315 Eye Irrit. 2; H319 STOT SE 3; H335 (Respiratory system) specific concentration limit STOT SE 3; H335 >= 10 %	>= 1 - < 10
hexad	decyl methacrylate	2495-27-4 219-672-3 607-134-00-4 01-2119489776-	Skin Irrit. 2; H315 Eye Irrit. 2; H319 STOT SE 3; H335 (Respiratory system) specific concentration limit STOT SE 3; H335 >= 10 %	>= 1 - < 10
zinc c	oxide	1314-13-2 215-222-5 030-013-00-7 01-2119463881-3	Aquatic Acute 1; H400 Aquatic Chronic 1; H410 32 M-Factor (Acute aquatic toxicity): 1 M-Factor (Chronic aquatic toxicity): 1	>= 1 - < 2,5
2,2'-[(methy	(4- ylphenyl)imino]bisethanol	3077-12-1 221-359-1 01-2120791684-4	40 Acute Tox. 4; H302 Eye Dam. 1; H318 Skin Sens. 1; H317 Aquatic Chronic 3; H412	>= 1 - < 2,5
esters metha	prolactone, oligomers, s with 2-hydroxyethyl acrylate, phosphate	2548699-72-3 500-310-0 -	Skin Irrit. 2; H315 Eye Irrit. 2; H319 STOT SE 3; H335 (Respiratory system)	>= 1 - < 10

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.



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Prote	ction of first-aiders	and use the If potential fo personal pro Avoid inhala No action sh suitable train It may be da	conders should pay attention to self-protection recommended protective clothing or exposure exists refer to Section 8 for specific tective equipment. tion, ingestion and contact with skin and eyes. all be taken involving any personal risk or without ing. ngerous to the person providing aid to give both resuscitation.
lf inha	aled		move to fresh air. attention if symptoms occur.
In cas	se of skin contact	lf on skin, rin	on persists, call a physician. se well with water. remove clothes.
In ca	se of eye contact	tissue damag In the case of of water and Continue ring Remove con Keep eye wig	nts splashed into eyes can cause irreversible ge and blindness. of contact with eyes, rinse immediately with plenty seek medical advice. sing eyes during transport to hospital. tact lenses. de open while rinsing. on persists, consult a specialist.
lf swa	allowed	Never give a If symptoms	tory tract clear. nything by mouth to an unconscious person. persist, call a physician. mmediately to hospital.
4.2 Most i	important symptoms	and effects, both a	acute and delayed

None known.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : Tre

: Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media		
Suitable extinguishing media	ι :	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

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5.2 \$	5.2 Special hazards arising from the substance or mixture							
	Specifi firefigh	c hazards during ting	:	Do not allow run-o courses.	off from fire fighting to enter drains or water			
	Hazardous combustion products		:	Carbon oxides				
5.3	Advice	for firefighters						
	Specia for firef	I protective equipment ighters	:	Wear self-contain necessary.	ed breathing apparatus for firefighting if			
	Specifi method	c extinguishing ds	:	5 5	measures that are appropriate to local d the surrounding environment.			
	Further information		:	must not be disch Fire residues and be disposed of in For safety reason separately in close	contaminated fire extinguishing water must accordance with local regulations. s in case of fire, cans should be stored			

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

I / I	5 71
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 conta	inment and cleaning up
Methods for cleaning up :	Neutralize with chalk, alkali solution or ammonia. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth.

	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).



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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. To avoid spills during handling keep bottle on a metal tray. 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	Conditions for safe storage, in	nclı	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	:	Keep away from strong bases.
	Recommended storage temperature	:	2 - 8 °C
	Further information on storage stability	:	Stable under normal conditions.
7.3	Specific end use(s)		
	Specific use(s)	:	No data available

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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 205 mg/m3	FR VLE		
Further information	Regulatory bir	nding exposure limits	6			
		VLCT (VLE)	100 ppm 410 mg/m3	FR VLE		
Further information	Regulatory bir	nding exposure limits	6			
methacrylic acid	79-41-4	VME	20 ppm 70 mg/m3	FR VLE		
Further information	Indicative exp	osure limits				
calcium carbonate	471-34-1	VME	10 mg/m3	FR VLE		
Further information	Indicative exp	Indicative exposure limits				
zinc oxide	1314-13-2	VME (Fumes)	5 mg/m3	FR VLE		
Further information	Indicative exp	osure limits				
		VME (Dust)	10 mg/m3	FR VLE		
Further information	Indicative exp	osure limits				

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

Substance name	End Use	Exposure routes	Potential health effects	Value
2,2'-[(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
calcium carbonate	Workers	Inhalation	Long-term local effects	6,36 mg/m3
	Consumers	Inhalation	Long-term local effects	1,06 mg/m3
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	6,3 mg/m3

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			effects	1
	Consumers	Inhalation	Long-term local effects	6,55 mg/m3
	Consumers	Dermal	Long-term systemic effects	2,55 mg/kg bw/day
calcium molybdate	Workers	Inhalation	Long-term systemic effects	11,17 mg/m3
	Workers	Inhalation	Systemic effects	11,17 mg/m3
	Consumers	Inhalation	Long-term systemic effects	3,33 mg/m3
	Consumers	Inhalation	Systemic effects	3,33 mg/m3
	Consumers	Oral	Long-term systemic effects	4,85 mg/kg
	Consumers	Oral	Systemic effects	
Silicon, amorphous	Workers	Inhalation	Long-term systemic effects	4 mg/m3
zinc oxide	Workers	Dermal	Long-term systemic effects	83 mg/kg
	Workers	Inhalation	Long-term systemic effects	5 mg/m3
	Consumers	Dermal	Long-term systemic effects	83 mg/kg
	Consumers	Inhalation	Long-term systemic effects	2,5 mg/m3
	Consumers	Oral	Long-term systemic effects	0,83 mg/kg
	Workers	Inhalation	Long-term local effects	0,5 mg/m3

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

Substance name	Environmental Compartment	Value			
2,2'-[(4-	Fresh water	0,026 mg/l			
methylphenyl)imino]bisethanol					
	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				
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			



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	Remarks:Assessment Factors			
	Soil	1,2 mg/kg		
	Remarks:Equilibrium method	· · · ·		
calcium molybdate	Fresh water	12,7 mg/l		
	Marine water	1,91 mg/l		
	Sewage treatment plant	21,7 mg/l		
	Fresh water sediment	22600 mg/kg		
	Marine sediment	1984 mg/kg		
	Soil	39 mg/kg		
zinc oxide	Fresh water	20,6 μg/l		
	Marine water	6,1 μg/l		
	Sewage treatment plant	100 μg/l		
	Remarks:Assessment Factors			
	Fresh water sediment	117,8 mg/kg dry weight (d.w.)		
	Marine sediment	56,5 mg/kg dry weight (d.w.)		
	Remarks:Equilibrium method	· • · ·		
	Soil	35,6 mg/kg dry weight (d.w.)		

8.2 Exposure controls

Personal protective equipment

Eye protection	:	Eye wash bottle with pure water Tightly fitting safety goggles Wear face-shield and protective suit for abnormal processing problems.
Hand protection Material	:	butyl-rubber
Material Break through time		Ethyl Vinyl Alcohol Laminate (EVAL) > 8 h
Material Break through time	:	Nitrile rubber 10 - 480 min
Remarks	:	Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact). Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. The suitability for a specific workplace should be discussed with the producers of the protective gloves.
Skin and body protection	:	Impervious clothing Choose body protection according to the amount and concentration of the dangerous substance at the work place.
Respiratory protection	:	Ensure adequate ventilation. Suitable respiratory equipment:



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		Recommend Combined pa Respirator se exposure lev	ith a half face mask led Filter type: articulates and organic vapour type election must be based on known or anticipated rels, the hazards of the product and the safe s of the selected respirator.
Fil	lter type	: Filter type A-	P2 (organic vapours, particles)

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	: paste
Colour	: beige
Odour	: acrylic-like
Odour Threshold	: No data is available on the product itself.
рН	: 4 Concentration: 500 g/l
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
Flammability (solid, gas)	: No data is available on the product itself.
Upper explosion limit / Upper flammability limit	: No data is available on the product itself.
Lower explosion limit / Lower flammability limit	: No data is available on the product itself.
Vapour pressure	: No data is available on the product itself.
Relative vapour density	: No data is available on the product itself.
Relative density	: No data is available on the product itself.
Density	: 1,03 g/cm3 (25 °C)
Solubility(ies) Water solubility	: insoluble, immiscible
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.



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Auto	ignition temperature	: No data is ava	ilable on the product itself.
Deco	mposition temperature	: No data is ava	ilable on the product itself.
Visco Vis	osity scosity, dynamic	: 32 200 mPa.s	(25 °C)
9.2 Other	information		
No d	ata available		
SECTIO	N 10: Stability and re	activity	
0201101		aothrty	
10.1 Read	-		
No d	angerous reaction know	n under conditions of	normal use.
10.2 Chei	nical stability		
Stabl	e under normal conditio	ns.	
10.3 Poss	sibility of hazardous re	actions	
Haza	rdous reactions	: Vapours may f	orm explosive mixture with air.
10.4 Con	ditions to avoid		
Conc	litions to avoid	: Heat, flames a	nd sparks.
10.5 Inco	mpatible materials		
Mate	rials to avoid	: Strong acids a Strong oxidizir	nd strong bases Ig agents
10.6 Haza	rdous decomposition	products	
Haza produ	rdous decomposition ucts	: carbon dioxide carbon monox	

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



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<u>Com</u>	ponents:		
meth	yl methacrylate:		
Acute	e oral toxicity	: LD50 (Rat):	7 900 - 9 400 mg/kg
Acute	e inhalation toxicity	Exposure tin Test atmosp	nale and female): 29,8 mg/l ne: 4 h here: vapour ective 67/548/EEC, Annex V, B.2.
Acute	e dermal toxicity		it, male): > 5 000 mg/kg CD Test Guideline 402
meth	acrylic acid:		
Acute	e oral toxicity	Method: OE GLP: no	nale): 1 320 mg/kg CD Test Guideline 401 : The component/mixture is moderately toxic after ion.
Acute	e inhalation toxicity	Exposure tin Test atmosp Method: OE GLP: yes	here: vapour CD Test Guideline 403 : The component/mixture is moderately toxic after
Acute	e dermal toxicity	GLP: no	it): 500 - 1 000 mg/kg : The component/mixture is toxic after single skin.
octa	decyl methacrylate:		
Acute	e oral toxicity		nale and female): > 5 000 mg/kg CD Test Guideline 401
Acute	e dermal toxicity		it): > 3 000 mg/kg : The substance or mixture has no acute dermal
hexa	decyl methacrylate:		
Acute	e oral toxicity		nale and female): > 5 000 mg/kg CD Test Guideline 401
Acute	e dermal toxicity		it): > 3 000 mg/kg : The substance or mixture has no acute dermal
zinc	oxide:		
Acute	e oral toxicity		nale and female): > 5 000 mg/kg CD Test Guideline 401

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Acute	inhalation toxicity	Exposure tim Test atmospl Method: OE0	nere: dust/mist D Test Guideline 403 The substance or mixture has no acute
Acute	dermal toxicity	Method: OEC GLP: yes	nale and female): > 2 000 mg/kg CD Test Guideline 402 The substance or mixture has no acute dermal
2.2'-[(4-methylphenyl)imin	olbisethanol:	
· -	oral toxicity	: LD50 (Rat, m Method: OEC GLP: no	nale and female): 959 mg/kg CD Test Guideline 401 The component/mixture is moderately toxic after on.
Acute	dermal toxicity	Method: OE0 GLP: yes	nale and female): > 2 000 mg/kg CD Test Guideline 402 The substance or mixture has no acute dermal
	corrosion/irritation		
	yl methacrylate:		
Speci Metho Resul	es od	: Rabbit : OPPTS 870. : Skin irritation	
meth	acrylic acid:		
Speci	es ssment od		re burns. Guideline 404 rrosive and destructive to tissue.
octad	lecyl methacrylate:		
Resu		: Skin irritation	
hexa	decyl methacrylate:		
Resu	lt	: Skin irritation	
zinc o	oxide:		
Speci Asses	es ssment	: Rabbit : No skin irritat	ion

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Metho	bd	: OECD Test G	uideline 404	
Resul	t	: No skin irritatio	on	
2,2'-[(4-methylphenyl)imi	no]bisethanol:		
Speci		: Rabbit		
	ssment	: No skin irritatio	on	
Metho		: Other guidelin		
Resu	t	: No skin irritatio	on	
GLP		: no		
E-Cap	prolactone, oligome	rs, esters with 2-hyd	roxyethyl methacrylate, phosphate:	
Asses	ssment	: Irritating to ski	n.	
Serio	us eye damage/eye	irritation		
Comp	oonents:			
metha	acrylic acid:			
Speci		: Rabbit		
	ssment		s damage to eyes.	
Metho			Draize Test	
Resul GLP	t	: irreversible eff : no	fects on the eye	
octad	lecyl methacrylate:			
Resul		: Eye irritation		
hexad	decyl methacrylate:			
Resul		: Eye irritation		
zinc o	oxide:			
Speci	es	: Rabbit		
	ssment	: No eye irritatio	on	
Metho		: OECD Test G		
Resul	t	: No eye irritatio	on	
2,2'-[((4-methylphenyl)imi	no]bisethanol:		
Speci		- : Rabbit		
Asses	ssment		s damage to eyes.	
Metho		: OECD Test G		
Resul	t		s damage to eyes.	
GLP		: no		
E-Cap	prolactone, oligome	rs, esters with 2-hyd	roxyethyl methacrylate, phosphate:	
-		· Irritating to eve		

: Irritating to eyes.



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sion	Revision Date: 10.06.2022	SDS Number: 400000010923	Date of last issue: 10.11.2020 Date of first issue: 10.11.2020	
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Resp	iratory or skin sensit	isation		
Com	oonents:			
meth	yl methacrylate:			
Exposure routes Species Assessment Method Result		: OECD Tes		
meth	acrylic acid:			
Test Type:Buehler TestExposure routes:SkinSpecies:Guinea pigAssessment:Did not cause sensitisation on laboratory animals.Method:OECD Test Guideline 406Result:Did not cause sensitisation on laboratory animals.			se sensitisation on laboratory animals. t Guideline 406	
octad	lecyl methacrylate:			
Expos Speci	sure routes	: Skin : Mouse		

Exposure routes	•	Skin
	-	Mouse OECD Test Guideline 429
		Does not cause skin sensitisation.

hexadecyl methacrylate:

Exposure routes Species	•	Skin Mouse
Method Result	:	OECD Test Guideline 429 Does not cause skin sensitisation.

zinc oxide:

Exposure routes	:	Skin
Species	:	Guinea pig
Method	:	OECD Test Guideline 406
Result	:	Does not cause skin sensitisation.

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

Test Type	:	Local lymph node assay (LLNA)
Species	:	Mouse
Assessment	:	May cause sensitisation by skin contact.
Method	:	OECD Test Guideline 429
Result	:	May cause sensitisation by skin contact.
GLP	:	yes
Remarks	:	Information given is based on data obtained from similar substances.



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	n cell mutagenicity ponents:		
meth	yl methacrylate:		
	otoxicity in vitro	Test system: S	probial mutagenesis assay (Ames test) Galmonella typhimurium O Test Guideline 471 Ye
meth	acrylic acid:		
	otoxicity in vitro	Test system: S Metabolic activ	erse mutation assay Salmonella typhimurium vation: with and without metabolic activation) Test Guideline 471 ve
Genc	otoxicity in vivo	Method: OEC	male) atic ute: Inhalation
		Species: Mous Application Ro Exposure time Dose: 0.405, 4	ute: Inhalation : 6 h .05 and 36.45 mg/L) Test Guideline 478
octad	decyl methacrylate:		
	otoxicity in vitro		vation: with and without metabolic activation D Test Guideline 476
		Metabolic activ	33 - 5000 ug/plate vation: with and without metabolic activation) Test Guideline 471 ve
		Metabolic activ	14.5 - 2233 μg/L vation: with and without metabolic activation) Test Guideline 473 νe
Geno	otoxicity in vivo	: Application Ro Exposure time	

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		Dose: 5000 Method: Of Result: neg	ECD Test Guideline 474
hexa	decyl methacrylate:		
Geno	otoxicity in vitro	Metabolic a	ion: .1 - 1200 μg/L ctivation: with and without metabolic activation ECD Test Guideline 476 ative
		Metabolic a	ion: 33 - 5000 ug/plate activation: with and without metabolic activation ECD Test Guideline 471 active
		Metabolic a	ion: 14.5 - 2233 μg/L activation: with and without metabolic activation ECD Test Guideline 473 lative
Geno	otoxicity in vivo	Exposure ti Dose: 5000) mg/kg ECD Test Guideline 474
zinc	oxide:		
	otoxicity in vitro	Test system Metabolic a	reverse mutation assay n: Salmonella tryphimurium and E. coli activation: with and without metabolic activation ECD Test Guideline 471 active
		Test system Metabolic a	Chromosome aberration test in vitro n: Chinese hamster lung cells activation: with and without metabolic activation ECD Test Guideline 473
		Metabolic a	Micronucleus test activation: without metabolic activation ECD Test Guideline 487 ative
Geno	otoxicity in vivo	Species: M Cell type: E Application Dose: 15, 3	Micronucleus test ouse (male) Bone marrow Route: Intraperitoneal injection 80 and 60 mg/kg bw ECD Test Guideline 474 Native

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

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ersion .2	Revision Date: 10.06.2022	SDS Number: 400000010923	Date of last issue: 10.11.2020 Date of first issue: 10.11.2020
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Genotoxicity in vitro		Test system: S Metabolic activ	erse mutation assay Salmonella typhimurium vation: with and without metabolic activation D Test Guideline 471 ve
		Test system: H Metabolic activ Method: OECI Result: negativ GLP: yes	mation given is based on data obtained from
		Test system: n Metabolic activ Method: OECI Result: negativ GLP: yes	mation given is based on data obtained from
Carcii	nogenicity		
Comp	oonents:		
Specie Applic Expos Dose	ation Route sure time ency of Treatment EL	: Rat, male and : Oral : 2 Years : 6, 60, 2000 pp : once daily : 90,3 mg/kg bw : negative	m
metha	acrylic acid:		
Expos	ation Route sure time ency of Treatment EL	 Rat, male and inhalation (vap 102 weeks 5 days/week >= 2,05 mg/kg OECD Test Guilding 	our) body weight
Expos Dose	ation Route sure time ency of Treatment L	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

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Speci Applic Expo Dose	cation Route sure time uency of Treatment EL		
Repr	oductive toxicity		
Com	ponents:		
Effec	yl methacrylate: ts on foetal opment	Dose: 99, 304 Teratogenicity Embryo-foeta Method: OEC	oute: Inhalation I, 1178 ppm y: NOAEC F1: 8 300 mg/m ³ I toxicity: NOAEC F1: 8 300 mg/m ³ D Test Guideline 414 ratogenic effects
meth	acrylic acid:		
	ts on fertility	Species: Rat, Application R Dose: 0, 50, 1 General Toxic Fertility: NOA Symptoms: R	vo-generation study male and female oute: Oral 50, 450 mg/kg/day city - Parent: NOAEL: 50 mg/kg body weight EL F1: 400 mg/kg body weight educed body weight D Test Guideline 416
	ts on foetal opment	Dose: 0, 50, 1 Duration of Si Frequency of General Toxic Development Embryo-foeta Method: OEC Result: No eff development Test Type: Pr Species: Rab Application R Dose: 50, 150 Duration of Si Frequency of	female oute: Inhalation 100, 200 or 300 ppm ngle Treatment: 14 d Treatment: 7 days/week oity Maternal: NOAEL: 200 ppm al Toxicity: NOAEL: >= 300 ppm I toxicity: NOAEC F1: 300 ppm D Test Guideline 414 fects on fertility and early embryonic were detected. e-natal bit, male and female



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			I Toxicity: NOAEL F1: 450 mg/kg body weight cts on fertility and early embryonic vere detected.
octa	decyl methacrylate:		
Effec	sts on fertility	Application Ro Dose: >= 1000 Frequency of T	milligram per kilogram Freatment: 7 days/week) Test Guideline 422
		Application Ro Dose: 400 milli Frequency of T	gram per kilogram Freatment: 7 days/week) Test Guideline 416
	ets on foetal lopment	Application Ro General Toxici Method: OECE	nale and female ute: Oral ty Maternal: NOAEL: 1 000 mg/kg body weight) Test Guideline 422 atogenic effects
		Method: OECE	
hexa	decyl methacrylate:		
	cts on fertility	Application Ro Dose: >=1000 Frequency of T	milligram per kilogram Freatment: 7 days/week) Test Guideline 422
		Application Ro Frequency of T	reatment: 7 days/week) Test Guideline 416
	sts on foetal lopment	Application Ro General Toxici Method: OECE	nale and female ute: Oral ty Maternal: NOAEL: 1 000 mg/kg body weight) Test Guideline 422 ttogenic effects
		Species: Rat, f Application Ro General Toxici	

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rsion 2	Revision Date: 10.06.2022	SDS Number: 400000010923	Date of last issue: 10.11.2020 Date of first issue: 10.11.2020		
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			D Test Guideline 414 atogenic effects		
zinc o	oxide:				
Effects on fertility :		Species: Rat, r Application Ro Dose: 7.5/15/3 General Toxici General Toxici Method: OECE	0 mg/kg bw/day ty - Parent: LOAEL: 7,5 mg/kg body weight ty F1: NOAEL: 15 mg/kg body weight) Test Guideline 416 mation given is based on data obtained from		
	s on foetal opment	Dose: 0.3/1.5/7 Duration of Sin General Toxici Developmenta Method: OECE	ute: inhalation (dust/mist/fume)		
2.2'-[(4-methylphenyl)imir	nolhisethanol			
Effect	s on foetal opment	: Test Type: Pre Species: Rat, f Application Ro Dose: 60/200/6 Duration of Sin General Toxici Developmenta Method: OECE GLP: yes	iemales ute: Oral 500 milligram per kilogram ogle Treatment: 15 d ty Maternal: NOAEL: 200 mg/kg body weight I Toxicity: NOAEL: >= 600 mg/kg body weight D Test Guideline 414 mation given is based on data obtained from		
стот	- single exposure				
	oonents:				
	yl methacrylate:				
Expos Targe	sure routes t Organs ssment	: Inhalation : Respiratory Tra : May cause res	act piratory irritation.		
metha	acrylic acid:				
Expos Targe	sure routes t Organs ssment		act or mixture is classified as specific target organ e exposure, category 3 with respiratory tract		

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	DITE® 2053-05		
ersion 2	Revision Date: 10.06.2022	SDS Number: 400000010923	Date of last issue: 10.11.2020 Date of first issue: 10.11.2020
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octac	lecyl methacrylate:		
	sure routes	: Inhalation	
	et Organs	: Respiratory	
Asses	ssment	: May cause r	respiratory irritation.
hexa	decyl methacrylate:		
	sure routes	: Inhalation	
	et Organs	: Respiratory	
Asses	ssment	: May cause r	respiratory irritation.
E-Ca	prolactone, oligomer	s, esters with 2-hy	droxyethyl methacrylate, phosphate:
	sure routes	: Inhalation	avetom
	et Organs ssment	: Respiratory : May cause r	respiratory irritation.
		,	
	- repeated exposure	e	
	ata available		
-	ated dose toxicity		
	ponents:		
	yl methacrylate:		
Speci NOAI		: Rat, male ar	
-	=∟ cation Route	: 124,1 mg/kg : oral (drinking	
	sure time	: 2 years	g water)
	per of exposures	: daily	
Dose		: 6, 60, 2000	ppm
meth	acrylic acid:		
Speci	ies	: Rat, male ar	nd female
NOE	C	: 352 - 1232 r	ng/m3
	cation Route	: inhalation (v	apour)
	atmosphere	: vapour	
	sure time per of exposures	: 90 d : 6 h	
Dose		: 70/352/1232	2 ma/m3
Subso period	equent observation	: 5 days/week	
Metho		: OECD Test	Guideline 413
GLP		: yes	
octac	lecyl methacrylate:		
Speci		: Rat, male ar	nd female
NOA		: 1000 mg/kg	
Applic	cation Route	: Ingestion	
	per of exposures	: 7 d	
Metho	bd	: Subchronic	toxicity
Speci		: Rat, male ar	nd female
N() / [-1	 120 ma/ka 	

: 120 mg/kg

NOAEL



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Expos	cation Route sure time per of exposures od	: Ingestion : 2 160 h : 7 d : Subchronic tox	kicity
hexad	decyl methacrylate:		
	EL cation Route per of exposures	: Rat, male and : 1000 mg/kg : Ingestion : 7 d : Subchronic tox	
Expos	EL cation Route sure time per of exposures	: Rat, male and : 120 mg/kg : Ingestion : 2 160 h : 7 d : Subchronic tox	
zinc c	oxide:		
Expos	- cation Route sure time per of exposures od	 Mouse, male a 3000 ppm Ingestion 13 Weeks 7 d Subchronic tox Information giv substances. 	
Expos	cation Route sure time per of exposures	: Rat, male : inhalation (dus : 13 weeks 6 h : 5 days/week : 0.3, 1.5 and 4. : OECD Test Gu : yes	5 mg/m3
Expos		: Rat, male and : 75 mg/kg : Dermal : 28 days 6 h : 5 days/week : 0, 75, 180, and	female d 360 mg/kg bw/d
2 2'-[((4-methylphenyl)imir	olbisethanol	
Speci NOAE Applic Expos	es EL cation Route sure time per of exposures	: Rat, male and : 100 mg/kg : Oral : 28 d : daily	000 mg/kg bw/day

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Rema	arks	: Information g substances.	given is based on data obtained from similar
-	r ation toxicity ata available		
11.2 Infor	mation on other haz	ards	
Endo	crine disrupting pro	perties	
Prod	uct:		
Asse	ssment	considered to to REACH A	ce/mixture does not contain components o have endocrine disrupting properties according rticle 57(f) or Commission Delegated regulation 100 or Commission Regulation (EU) 2018/605 at % or higher
Evne	rience with human e	VNOSUIRA	
-	ata available	xposure	
Toxic	cology, Metabolism,	Distribution	
No da	ata available		
Neur	ological effects		
No da	ata available		
Furth	er information		
Prod	uct:		
Rema	arks	: Solvents ma	y 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)



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ersion .2	Revision Date: 10.06.2022		S Number: 0000010923	Date of last issue: 10.11.2020 Date of first issue: 10.11.2020
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			Test Type: flow-th Method: OECD T	
metha	acrylic acid:			
Toxici	ty to fish	:	End point: mortali Exposure time: 96 Test Type: flow-th Test substance: F Method: Fish Acu GLP: yes	h rough test resh water
	ty to daphnia and other ic invertebrates	:	End point: Immob Exposure time: 48 Test Type: flow-th Analytical monitor Test substance: F	3 h rough test ing: yes
	Toxicity to algae/aquatic plants		ErC50 (Selenastri Exposure time: 72 Test Type: static to Analytical monitor Test substance: F Method: OECD To GLP: yes	est ing: yes resh water
			NOEC (Selenastr Exposure time: 72 Test Type: static t Analytical monitor Test substance: F Method: OECD T GLP: yes	est ing: yes resh water
Toxici	ty to microorganisms	:	EC50 (Pseudomo Exposure time: 16 Test Type: static t Analytical monitor Test substance: F Method: DIN 38 4 GLP: yes	est ing: no resh water
Toxici toxicit	ty to fish (Chronic y)	:	NOEC: 10 mg/l Exposure time: 35 Species: Brachyd Test Type: flow-th Analytical monitor Test substance: F Method: OECD T	anio rerio (zebrafish) rough test ing: yes resh water

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			GLP: yes	
aqı	kicity to daphnia and other uatic invertebrates pronic toxicity)	:	NOEC: 53 mg/l Exposure time: 2 Species: Daphnia Test Type: flow-th Analytical monitor Test substance: F Method: OECD T GLP: yes	magna (Water flea) Trough test Tring: yes Fresh water
zin	c oxide:			
	Factor (Acute aquatic icity)	:	1	
	Factor (Chronic aquatic icity)	:	1	
Ec	otoxicology Assessment			
	ute aquatic toxicity	:	Very toxic to aqua	atic life.
Ch	ronic aquatic toxicity	:	Very toxic to aqua	atic life with long lasting effects.
2,2	'-[(4-methylphenyl)imino]]bis	ethanol:	
To	kicity to fish	:	End point: mortali Exposure time: 90 Test Type: static Analytical monitor Test substance: F Method: OECD T GLP: yes	5 h test ring: yes Fresh water
	kicity to daphnia and other latic invertebrates	:	End point: Immob Exposure time: 44 Test Type: static Analytical monitor Test substance: F Method: OECD T GLP: yes	3 h test ring: yes Fresh water est Guideline 202 ation given is based on data obtained from
To: pla	kicity to algae/aquatic nts	:	EC50 (Pseudoking mg/l Exposure time: 72 Test Type: static Analytical monitor Test substance: F Method: OECD T GLP: yes	test ring: yes Fresh water

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ersion 2	Revision Date: 10.06.2022		S Number: 0000010923	Date of last issue: 10.11.2020 Date of first issue: 10.11.2020
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			Remarks: Based	on data from similar materials
			mg/l Exposure time: 7 Test Type: static Analytical monito Test substance: Method: OECD 1 GLP: yes	test pring: yes
Toxic	ity to microorganisms	:	Exposure time: 3 Test Type: static Analytical monito Test substance: Method: OECD T GLP: yes	test oring: no Fresh water Fest Guideline 209 ation given is based on data obtained from
.2 Persi	istence and degradabi	ility		
	ponents:			
meth	yl methacrylate:			
Biode	egradability	:	Result: Readily b Biodegradation: Exposure time: 2	> 60 %
meth	acrylic acid:			
Biode	gradability	:	Test Type: aerob Inoculum: activat Concentration: 3 Result: Readily b Biodegradation: Exposure time: 2 Method: OECD T GLP: yes	ted sludge mg/l piodegradable. 86 %
2,2'-[((4-methylphenyl)iming	o]bis	ethanol:	
· -	egradability	:	Test Type: aerob Inoculum: activat Concentration: 14 Result: Not biode Biodegradation: Exposure time: 2 Method: OECD 1 GLP: yes	ted sludge, non-adapted 8 mg/l egradable 1,5 %

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12.3 Bioaccumulative potential

12.3 Bioaccumulative potentia	
Components:	
methyl methacrylate:	
Bioaccumulation	: Bioconcentration factor (BCF): 3
Partition coefficient: n- octanol/water	: log Pow: 1,38
methacrylic acid:	
Partition coefficient: n- octanol/water	: log Pow: 0,93 (22 °C) pH: 2,2
hexadecyl methacrylate:	
Partition coefficient: n- octanol/water	: log Pow: 8,64 Method: QSAR GLP: no
2,2'-[(4-methylphenyl)imin	o]bisethanol:
Partition coefficient: n- octanol/water	: log Pow: 2 (35 °C) pH: 7 Method: OECD Test Guideline 117
12.4 Mobility in soil	
No data available	
12.5 Results of PBT and vPvB	assessment
Product:	
Assessment	: This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.
12.6 Endocrine disrupting prop	perties
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	
Product:	
Additional ecological information	: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Harmful to aquatic life with long lasting effects.

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SECTION 13: Disposal considerations

13.1 Waste treatment methods	
Product :	Dispose of contents and container in accordance with all local, regional, national and international regulations. Do not dispose of waste into sewer. Do not contaminate ponds, waterways or ditches with chemical or used container.
Contaminated packaging :	Empty remaining contents. Dispose of as unused product. Do not re-use empty containers. 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	;)	
ADN	:	3
ADR	:	3
RID	:	3
IMDG	:	3
ΙΑΤΑ	:	3
14.4 Packing group		
ADN Packing group Classification Code Hazard Identification Numbe Labels		II F1 33 3

ADR

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	Packing group Classification Code Hazard Identification Number Labels Tunnel restriction code	: II : F1 : 33 : 3 : (D/E)				
	RID Packing group Classification Code Hazard Identification Number Labels	: II : F1 : 33 : 3				
	IMDG Packing group Labels EmS Code	: II : 3 : F-E, S-D				
	IATA (Cargo) Packing instruction (cargo aircraft) Packing instruction (LQ) Packing group Labels	: 364 : Y341 : II : Flammable Liqu	ids			
	IATA (Passenger) Packing instruction (passenger aircraft) Packing instruction (LQ) Packing group Labels	: 353 : Y341 : II : Flammable Liqu	ids			
14.5	Environmental hazards					
	ADN Environmentally hazardous	: no				
	ADR Environmentally hazardous	: no				
	RID Environmentally hazardous	: no				

IMDG Marine pollutant

: no

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 authorisation : Not applicable

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(Anne	ex XIV)		
	CH - Candidate List of S ern for Authorisation (A		High : This product does not contain substances of very high concern (Regulation (EC) No 1907/2006 (REACH), Article 57).
	so III: Directive 2012/18 -accident hazards invol		
	pational Illnesses (R- , France)	: 65, 82, 36, 25	
protec	lations classified for the ction of the environmen ronment Code R511-9)		
Take	regulations: note of Directive 94/33, ations, where applicable		n of young people at work or stricter national
The c DSL	components of this pr	=	in the following inventories: contains one or several components that are not
		on the Canad	ian DSL nor NDSL.
AIIC		: Not in complia	ance with the inventory
NZIoC	C	: Not in complia	ance with the inventory
ENCS	8	: Not in complia	ance with the inventory
KECI		: Not in complia	ance with the inventory
PICC	S	: Not in complia	ance with the inventory
IECS	С		ved to be imported / manufactured only by the se contact your Huntsman sales representative mation.
TCSI		: On the invent	ory, or in compliance with the inventory
TSCA	A Contract of the second se	: On or in comp inventory	pliance with the active portion of the TSCA



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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 H302 H311 H314 H315 H317 H318 H319 H332 H335 H400 H410 H412		Highly flammable liquid Harmful if swallowed. Toxic in contact with ski Causes severe skin burn Causes skin irritation. May cause an allergic sl Causes serious eye dan Causes serious eye irrita Harmful if inhaled. May cause respiratory ir Very toxic to aquatic life Very toxic to aquatic life Harmful to aquatic life w	n. ns and eye damage. kin reaction. nage. ation. ritation. with long lasting effects.		
Full text of other abbreviations					
Acute Tox. Aquatic Acute Aquatic Chronic Eye Dam. Eye Irrit. Flam. Liq. Skin Corr. Skin Irrit. Skin Sens. STOT SE 2009/161/EU		a third list of indicative o	atic hazard kicity - single exposure DIRECTIVE 2009/161/EU establishing iccupational exposure limit values in cil Directive 98/24/EC and amending		
FR VLE 2009/161/EU / TWA 2009/161/EU / STEL FR VLE / VME FR VLE / VLCT (VLE)	:	France. Occupational Exposure Limits (INRS) Limit Value - eight hours Short term exposure limit Time Weighted Average			
Further information Classification of the mixture	۵.		Classification procedure:		
Flam. Liq. 2	H2	25	Based on product data or assessment		
Skin Irrit. 2	H3		Calculation method		



according to Regulation (EC) No. 1907/2006

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			Print Date 16.01.2024
Eye D	Dam. 1	H318	Calculation method
Skin S	Sens. 1	H317	Calculation method
STOT	SE 3	H335	Calculation method
Aqua	tic Chronic 3	H412	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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