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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Date of last issue: 10.11.2020 Date of first issue: 10.11.2020

Print Date 16.01.2024

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: +60 02424 0220

USA: +1/800/424.9300

according to Regulation (EC) No. 1907/2006

ARALDITE® 2053-05 A

Version 1.2 Revision Date: 10.06.2022

SDS Number: 400000010923



Enriching lives through innovation

Date of last issue: 10.11.2020 Date of first issue: 10.11.2020

H412: Harmful to aquatic life with long lasting

Print Date 16.01.2024

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 2H315: Causes skin irritation.Serious eye damage, Category 1H318: Causes serious eye damage.Skin sensitisation, Category 1H317: May cause an allergic skin reaction.Specific target organ toxicity - single
exposure, Category 3, Respiratory
systemH335: May cause respiratory irritation.

effects.

Long-term (chronic) aquatic hazard, Category 3

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Labelling (REGULATION (EC	Labelling (REGULATION (EC) No 12/2/2008)						
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 P233 P261 P280 Response:	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Avoid breathing mist or vapours. Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.				
		P305 + P351 + P3 P370 + P378	 B38 + 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. In case of fire: Use dry sand, dry chemical 				

according to Regulation (EC) No. 1907/2006

ARALDITE® 2053-05 A

Version Re 1.2 10

Revision Date: 10.06.2022

SDS Number: 400000010923



Enriching lives through innovation

Date of last issue: 10.11.2020 Date of first issue: 10.11.2020

Print Date 16.01.2024

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

according to Regulation (EC) No. 1907/2006

HUNTSMAN

Enriching lives through innovation

ARALDITE® 2053-05 A

rsion	Revision Date: 10.06.2022	SDS Number: 400000010923	Date of last issue: 10.11.2020 Date of first issue: 10.11.2020		
Print Date 16.01.2024					
			Eye Dam. 1; H318 >= 3 % Eye Irrit. 2A; H319 1 - < 3 %		
octad	lecyl 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)>= 1 - < 1013STOT SE 3; H335 (Respiratory system)>= 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)>= 1 - < 1015STOT SE 3; H335 (Respiratory system)10specific concentration limit STOT SE 3; H335 >= 10 %10		
zinc c	oxide	1314-13-2 215-222-5 030-013-00-7 01-2119463881-	32 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 1 M-Factor (Chronic aquatic toxicity): 1		
2,2'-[(meth	(4- ylphenyl)imino]bisethano	3077-12-1 221-359-1 01-2120791684-	40 Acute Tox. 4; H302 >= 1 - < Eye Dam. 1; H318 2,5 Skin Sens. 1; H317 Aquatic Chronic 3; H412		
esters metha	prolactone, oligomers, s with 2-hydroxyethyl acrylate, phosphate	2548699-72-3 500-310-0 -	Skin Irrit. 2; H315 >= 1 - <		

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice

Move out of dangerous area.
 Consult a physician.
 Show this safety data sheet to the doctor in attendance.
 Treat symptomatically.
 Get medical attention if symptoms occur.

SDS_FR-AM - - 400000010923

according to Regulation (EC) No. 1907/2006

ARALDITE® 2053-05 A

HUNTSMAN

Enriching lives through innovation

Version 1.2	Revision Date: 10.06.2022	SDS Number: 400000010923	Date of last issue: 10.11.2020 Date of first issue: 10.11.2020
			Print Date 16.01.2024
Prote	ction of first-aiders	and use the If potential f personal pr Avoid inhala No action s suitable trai It may be da	sponders should pay attention to self-protection e recommended protective clothing for exposure exists refer to Section 8 for specific otective equipment. ation, ingestion and contact with skin and eyes. hall be taken involving any personal risk or without ning. angerous to the person providing aid to give outh resuscitation.
lf inha	aled		emove to fresh air. I attention if symptoms occur.
In cas	se of skin contact	lf on skin, ri	ion persists, call a physician. nse well with water. s, remove clothes.
In ca	se of eye contact	tissue dama In the case of water and Continue rir Remove co Keep eye w	ints splashed into eyes can cause irreversible age and blindness. of contact with eyes, rinse immediately with plenty d seek medical advice. nsing eyes during transport to hospital. ntact lenses. ride open while rinsing. on persists, consult a specialist.
lf swa	allowed	Never give	atory tract clear. anything by mouth to an unconscious person. s persist, call a physician. immediately to hospital.
4.2 Most i	mportant symptoms	and effects, both	acute and delayed

None known.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media		
Suitable extinguishing media	:	Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical
Unsuitable extinguishing media	:	Exercise caution when using a high volume water jet as it may scatter and spread fire

according to Regulation (EC) No. 1907/2006

ARALDITE® 2053-05 A

Vers 1.2	sion	Revision Date: 10.06.2022		0S Number: 0000010923	Date of last issue: 10.11.2020 Date of first issue: 10.11.2020			
					Print Date 16.01.2024			
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						
	•	l protective equipment fighters	:	Wear self-contain necessary.	ed breathing apparatus for firefighting if			
	Specifi metho	c extinguishing ds	:		measures that are appropriate to local d the surrounding environment.			
	Furthe	r 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

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	ainment 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,

enous 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)
		local / national regulations (see section 13).

6/34



according to Regulation (EC) No. 1907/2006

ARALDITE® 2053-05 A

Version Re 1.2 10.

Revision Date: 10.06.2022

SDS Number: 400000010923



Enriching lives through innovation

Date of last issue: 10.11.2020 Date of first issue: 10.11.2020

Print Date 16.01.2024

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,	incl	uding any incompatibilities
Requirements for storage areas and containers	:	No smoking. Keep container tightly closed in a dry and well- ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Observe label precautions. Keep in properly labelled containers.
Advice on common storage	:	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

according to Regulation (EC) No. 1907/2006

ARALDITE® 2053-05 A

Version 1.2 Revision Date: 10.06.2022

SDS Number: 400000010923



Enriching lives through innovation

Date of last issue: 10.11.2020 Date of first issue: 10.11.2020

Print Date 16.01.2024

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	Regulatory binding exposure limits				
		VLCT (VLE)	100 ppm 410 mg/m3	FR VLE		
Further information	Regulatory bir	Regulatory binding exposure limits				
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 exposure limits						

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

Substance name	End Use	Exposure routes	Potential health effects	Value
2,2'-[(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

according to Regulation (EC) No. 1907/2006

ARALDITE® 2053-05 A

Version 1.2 Revision Date: 10.06.2022

SDS Number: 400000010923

Date of last issue: 10.11.2020 Date of first issue: 10.11.2020

Print Date 16.01.2024

			effects	
	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			
	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		



according to Regulation (EC) No. 1907/2006

ARALDITE® 2053-05 A

Version 1.2 Revision Date: 10.06.2022

SDS Number: 400000010923

Date of last issue: 10.11.2020 Date of first issue: 10.11.2020

Print Date 16.01.2024

	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:



according to Regulation (EC) No. 1907/2006

ARALDITE® 2053-05 A

Version 1.2	Revision Date: 10.06.2022	SDS Number: 400000010923	Date of last issue: 10.11.2020 Date of first issue: 10.11.2020
			Print Date 16.01.2024
		Recommende Combined par Respirator sel exposure leve	th a half face mask ad Filter type: rticulates and organic vapour type lection must be based on known or anticipated els, the hazards of the product and the safe of the selected respirator.
Fi	lter type	: Filter type A-F	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.	

HUNTSMAN

according to Regulation (EC) No. 1907/2006

ARALDITE® 2053-05 A

Version 1.2	Revision Date: 10.06.2022	SDS Number: 400000010923	Date of last issue: 10.11.2020 Date of first issue: 10.11.2020
			Print Date 16.01.2
Auto	-ignition temperature	: No data is av	ailable on the product itself.
Deco	mposition temperature	: No data is av	ailable on the product itself.
Visco Vis	osity scosity, dynamic	: 32 200 mPa.s	s (25 °C)
9.2 Other	information		
No da	ata available		
SECTIO	N 10. Stability and r	oactivity	
SECTIO	N 10: Stability and r	eactivity	
SECTIOI	-	eactivity	
10.1 Read	-	·	of normal use.
10.1 Read No da	ctivity angerous reaction know	·	of normal use.
10.1 Read No da 10.2 Cher	ctivity	wn under conditions o	of normal use.
10.1 Read No da 10.2 Cher Stabl	ctivity angerous reaction know mical stability le under normal condition	vn under conditions o	of normal use.
10.1 Read No da 10.2 Cher Stabl 10.3 Poss	ctivity angerous reaction know mical stability	wn under conditions o ons. eactions	
10.1 Read No da 10.2 Cher Stabl 10.3 Poss	ctivity angerous reaction know mical stability le under normal condition sibility of hazardous r	wn under conditions o ons. eactions	of normal use. form explosive mixture with air.
10.1 Read No da 10.2 Cher Stabl 10.3 Poss Haza	ctivity angerous reaction know mical stability le under normal condition sibility of hazardous r	wn under conditions o ons. eactions	
10.1 Read No da 10.2 Cher Stabl 10.3 Poss Haza 10.4 Cond	ctivity angerous reaction know mical stability le under normal condition sibility of hazardous r ardous reactions	wn under conditions o ons. eactions	form explosive mixture with air.
10.1 Read No da 10.2 Cher Stabl 10.3 Poss Haza 10.4 Cond Cond	ctivity angerous reaction know mical stability le under normal condition sibility of hazardous r urdous reactions ditions to avoid litions to avoid	wn under conditions o ons. eactions : Vapours may	form explosive mixture with air.
10.1 Read No da 10.2 Cher Stabl 10.3 Poss Haza 10.4 Cond Cond	ctivity angerous reaction know mical stability le under normal conditions sibility of hazardous r ardous reactions ditions to avoid litions to avoid mpatible materials	wn under conditions o ons. eactions : Vapours may : Heat, flames	form explosive mixture with air. and sparks.
10.1 Read No da 10.2 Cher Stabl 10.3 Poss Haza 10.4 Cond Cond	ctivity angerous reaction know mical stability le under normal condition sibility of hazardous r urdous reactions ditions to avoid litions to avoid	wn under conditions o ons. eactions : Vapours may : Heat, flames	form explosive mixture with air. and sparks. and strong bases
 10.1 Read No da 10.2 Cher Stabl 10.3 Poss Haza 10.4 Cond Cond 10.5 Inco Mate 	ctivity angerous reaction know mical stability le under normal conditions sibility of hazardous r ardous reactions ditions to avoid litions to avoid mpatible materials	wn under conditions o ons. eactions : Vapours may : Heat, flames : Strong acids Strong oxidiz	form explosive mixture with air. and sparks. and strong bases
 10.1 Read No da 10.2 Cher Stabl 10.3 Poss Haza 10.4 Cond Cond 10.5 Inco Mate 10.6 Haza 	ctivity angerous reaction know mical stability le under normal condition sibility of hazardous r urdous reactions ditions to avoid ditions to avoid mpatible materials rials to avoid ardous decomposition urdous decomposition	wn under conditions o ons. eactions : Vapours may : Heat, flames : Strong acids Strong oxidiz	form explosive mixture with air. and sparks. and strong bases ng agents

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	



according to Regulation (EC) No. 1907/2006

ARALDITE® 2053-05 A

HUNTSMAN

Version 1.2	Revision Date: 10.06.2022	SDS Numb 400000010	
			Print Date 16.01.2024
<u>Com</u>	ponents:		
meth	yl methacrylate:		
Acute	e oral toxicity	: LD50 (I	Rat): 7 900 - 9 400 mg/kg
Acute	e inhalation toxicity	Exposu Test at	Rat, male and female): 29,8 mg/l ure time: 4 h mosphere: vapour d: Directive 67/548/EEC, Annex V, B.2.
Acute	e dermal toxicity		Rabbit, male): > 5 000 mg/kg d: OECD Test Guideline 402
meth	nacrylic acid:		
Acute	e oral toxicity	Methoo GLP: n Assess	Rat, male): 1 320 mg/kg d: OECD Test Guideline 401 o sment: The component/mixture is moderately toxic after ingestion.
Acute	e inhalation toxicity	Exposu Test at Methoo GLP: ye Assess	Rat, male and female): 7,1 mg/l ure time: 4 h mosphere: vapour d: OECD Test Guideline 403 es sment: The component/mixture is moderately toxic after erm inhalation.
Acute	e dermal toxicity	GLP: n Assess	Rabbit): 500 - 1 000 mg/kg o sment: The component/mixture is toxic after single t with skin.
octa	decyl methacrylate:		
	e oral toxicity	,	Rat, male and female): > 5 000 mg/kg d: OECD Test Guideline 401
Acute	e dermal toxicity		Rabbit): > 3 000 mg/kg sment: The substance or mixture has no acute dermal
hexa	decyl methacrylate:		
	e oral toxicity		Rat, male and female): > 5 000 mg/kg d: OECD Test Guideline 401
Acute	e dermal toxicity		Rabbit): > 3 000 mg/kg ment: The substance or mixture has no acute dermal
zinc	oxide:		
Acute	e oral toxicity		Rat, male and female): > 5 000 mg/kg d: OECD Test Guideline 401

according to Regulation (EC) No. 1907/2006

ARALDITE® 2053-05 A



SDS Number:Date of last issue: 10.11.2020400000010923Date of first issue: 10.11.2020
Print Date 16.01.2024
 LC50 (Rat, male and female): > 5,7 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403 Assessment: The substance or mixture has no acute inhalation toxicity
 LD50 (Rat, male and female): > 2 000 mg/kg Method: OECD Test Guideline 402 GLP: yes Assessment: The substance or mixture has no acute dermal toxicity
nino]bisethanol:
: LD50 (Rat, male and female): 959 mg/kg Method: OECD Test Guideline 401 GLP: no Assessment: The component/mixture is moderately toxic after single ingestion.
 LD50 (Rat, male and female): > 2 000 mg/kg Method: OECD Test Guideline 402 GLP: yes Assessment: The substance or mixture has no acute dermal toxicity
: Rabbit : OPPTS 870.2500 : Skin irritation
: OPPTS 870.2500
: OPPTS 870.2500
 OPPTS 870.2500 Skin irritation Rabbit Causes severe burns. OECD Test Guideline 404 Extremely corrosive and destructive to tissue. yes
 OPPTS 870.2500 Skin irritation Rabbit Causes severe burns. OECD Test Guideline 404 Extremely corrosive and destructive to tissue.
 OPPTS 870.2500 Skin irritation Rabbit Causes severe burns. OECD Test Guideline 404 Extremely corrosive and destructive to tissue. yes
 : OPPTS 870.2500 : Skin irritation : Rabbit : Causes severe burns. : OECD Test Guideline 404 : Extremely corrosive and destructive to tissue. : yes : Skin irritation
 : OPPTS 870.2500 : Skin irritation : Rabbit : Causes severe burns. : OECD Test Guideline 404 : Extremely corrosive and destructive to tissue. : yes : Skin irritation

according to Regulation (EC) No. 1907/2006

ARALDITE® 2053-05 A

sion	Revision Date: 10.06.2022	SDS Number: 400000010923	Date of last issue: 10.11.2020 Date of first issue: 10.11.2020			
			Print Date 16.01.2024			
Metho Result		: OECD Test G : No skin irritati				
	4-methylphenyl)imi	-				
Specie	es sment	: Rabbit : No skin irritati	ion			
Metho		: Other guidelin				
Result		: No skin irritation				
GLP		: no				
E-Cap	orolactone, oligome	rs, esters with 2-hyd	Iroxyethyl methacrylate, phosphate:			
-	sment	: Irritating to sk				
Seriou	us eye damage/eye	irritation				
	onents:					
metha	acrylic acid:					
Specie	es	: Rabbit				
	sment		is damage to eyes.			
Metho		: Draize Test				
Result GLP	I	: Irreversible ef : no	fects on the eye			
octad	ecyl methacrylate:					
Result		: Eye irritation				
hexad	lecyl methacrylate:					
Result	t	: Eye irritation				
zinc o	xide:					
Specie	es	: Rabbit				
Asses	sment	: No eye irritation				
Metho		: OECD Test G				
Result	i i	: No eye irritatio	on			
2,2'-[(4	4-methylphenyl)imi	no]bisethanol:				
Specie		: Rabbit				
	sment		is damage to eyes.			
Metho		: OECD Test G				
Result	[is damage to eyes.			
CIP		: no				
GLP						
	rolactone, oligome	rs, esters with 2-hyd	Iroxyethyl methacrylate, phosphate:			



according to Regulation (EC) No. 1907/2006

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HUNTSMAN

according	to Regulation (EC) No. 19	Enriching lives through innovation	
ARALD	DITE® 2053-05	Α	
Version 1.2	Revision Date: 10.06.2022	SDS Number: 400000010923	Date of last issue: 10.11.2020 Date of first issue: 10.11.2020
			Print Date 16.01.2024
Resp	iratory or skin sensi	tisation	
Com	ponents:		
meth	yl methacrylate:		
	sure routes	: Skin	
Spec	ies ssment	: Mouse	consition by skip contact
Meth			sensitisation by skin contact. Guideline 429
Resu			sensitisation by skin contact.
meth	acrylic acid:		
Test		: Buehler Tes	st
	sure routes	: Skin	
Spec	ies ssment	: Guinea pig	se sensitisation on laboratory animals.
Meth			Guideline 406
Resu			se sensitisation on laboratory animals.
octad	decyl methacrylate:		
	sure routes	: Skin	
Spec		: Mouse	
Metho Resu			Guideline 429 Juse skin sensitisation.
Resu	it.	. Does not ca	
hexa	decyl methacrylate:		
	sure routes	: Skin	
Spec		: Mouse	Quidalia a 400
Methe Resu			Guideline 429 Juse skin sensitisation.
Resu	it.	. Docs not ca	
zinc	oxide:		
	sure routes	: Skin	
Spec		: Guinea pig	Quideline 400
Meth Resu			Guideline 406 use skin sensitisation.
2.2'-[(4-methylphenyl)imi	nolbisethanol:	
Test		-	node assay (LLNA)
Spec		: Mouse	
	ssment		sensitisation by skin contact.
Meth			Guideline 429
Resu GLP	π	•	sensitisation by skin contact.
		: yes	
Rema	arks	: Information substances.	given is based on data obtained from similar
		Substances.	

according to Regulation (EC) No. 1907/2006

ARALDITE® 2053-05 A



Version 1.2	Revision Date: 10.06.2022	SDS Number: 400000010923	Date of last issue: 10.11.2020 Date of first issue: 10.11.2020
			Print Date 16.01.2024
	n cell mutagenicity ponents:		
	yl methacrylate: otoxicity in vitro	Test system: S	robial mutagenesis assay (Ames test) almonella typhimurium) Test Guideline 471 e
meth	acrylic acid:		
	otoxicity in vitro	Test system: S Metabolic activ	erse mutation assay almonella typhimurium ation: with and without metabolic activation) Test Guideline 471 e
Genc	otoxicity in vivo	Method: OECE	nale) atic ute: Inhalation
		Species: Mous Application Ro Exposure time Dose: 0.405, 4	ute: Inhalation 6 h .05 and 36.45 mg/L 0 Test Guideline 478
octad	decyl methacrylate:		
Genc	otoxicity in vitro		ation: with and without metabolic activation Test Guideline 476
		Metabolic activ	33 - 5000 ug/plate ation: with and without metabolic activation) Test Guideline 471 e
		Metabolic activ	14.5 - 2233 μg/L ation: with and without metabolic activation) Test Guideline 473 e
Gend	otoxicity in vivo	: Application Ro Exposure time	

according to Regulation (EC) No. 1907/2006

ARALDITE® 2053-05 A



Enriching lives through innovation

Version 1.2	Revision Date: 10.06.2022	SDS Number: 400000010923	Date of last issue: 10.11.2020 Date of first issue: 10.11.2020
			Print Date 16.01.2024
		Dose: 5000 n Method: OEC Result: negat	CD Test Guideline 474
hexa	decyl methacrylate:		
Genc	otoxicity in vitro	Metabolic act	n: .1 - 1200 μg/L tivation: with and without metabolic activation CD Test Guideline 476 tive
		Metabolic act	n: 33 - 5000 ug/plate tivation: with and without metabolic activation CD Test Guideline 471 tive
		Metabolic act	n: 14.5 - 2233 µg/L tivation: with and without metabolic activation CD Test Guideline 473 tive
Genc	otoxicity in vivo	: Application R Exposure tim Dose: 5000 n Method: OEC Result: negat	e: 72 h ng/kg CD Test Guideline 474
zinc	oxide:		
	otoxicity in vitro	Test system: Metabolic act	everse mutation assay Salmonella tryphimurium and E. coli tivation: with and without metabolic activation CD Test Guideline 471 tive
		Test system: Metabolic act	hromosome aberration test in vitro Chinese hamster lung cells tivation: with and without metabolic activation CD Test Guideline 473
		Metabolic act	licronucleus test tivation: without metabolic activation CD Test Guideline 487 tive
Genc	otoxicity in vivo	Species: Mou Cell type: Bon Application R Dose: 15, 30	ne marrow coute: Intraperitoneal injection and 60 mg/kg bw CD Test Guideline 474

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

according to Regulation (EC) No. 1907/2006

ARALDITE® 2053-05 A



ersion 2	Revision Date: 10.06.2022	SDS Number: 400000010923	Date of last issue: 10.11.2020 Date of first issue: 10.11.2020
			Print Date 16.01.2024
Genotoxicity 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
Carci	nogenicity		
<u>Comp</u>	oonents:		
methy	yl methacrylate:		
Speci		: Rat, male and t	emale
	cation Route sure time	: Oral : 2 Years	
Dose		: 6, 60, 2000 ppr	n
	ency of Treatment	: once daily	
NOAE Resul		: 90,3 mg/kg bw/ : negative	'day
metha	acrylic acid:		
meth a Speci	acrylic acid: es	: Rat, male and	ⁱ emale
Speci Applic	es cation Route	: inhalation (vap	
Speci Applic Expos	es cation Route sure time	: inhalation (vap : 102 weeks	
Speci Applic Expos Frequ	es cation Route sure time lency of Treatment	inhalation (vap 102 weeks 5 days/week	our)
Speci Applic Expos	es cation Route sure time ency of Treatment EL	: inhalation (vap : 102 weeks	our) body weight
Speci Applic Expos Frequ NOAE	es cation Route sure time ency of Treatment EL od	 inhalation (vap) 102 weeks 5 days/week >= 2,05 mg/kg OECD Test Gu Mouse, male a 	our) body weight ideline 451 nd female
Speci Applic Expos Frequ NOAE Metho Speci Applic	es cation Route sure time ency of Treatment EL od es cation Route	 inhalation (vap) 102 weeks 5 days/week >= 2,05 mg/kg OECD Test Gu Mouse, male a inhalation (vap) 	our) body weight ideline 451 nd female
Speci Applic Expos Frequ NOAE Metho Speci Applic Expos	es cation Route sure time ency of Treatment EL od	 inhalation (vapa) 102 weeks 5 days/week >= 2,05 mg/kg OECD Test Gut Mouse, male a inhalation (vapa) 102 weeks 	bur) body weight ideline 451 nd female bur)
Speci Applic Expos Frequ NOAE Metho Speci Applic Expos Dose	es cation Route sure time lency of Treatment EL od es cation Route sure time	 inhalation (vap) 102 weeks 5 days/week >= 2,05 mg/kg OECD Test Gu Mouse, male a inhalation (vap) 102 weeks ca. 2.05 and 4. 	bur) body weight ideline 451 nd female bur)
Speci Applic Expos Frequ NOAE Metho Speci Applic Expos Dose	es cation Route sure time lency of Treatment EL od es cation Route sure time lency of Treatment EL	 inhalation (vapa) 102 weeks 5 days/week >= 2,05 mg/kg OECD Test Gut Mouse, male a inhalation (vapa) 102 weeks 	bur) body weight ideline 451 nd female bur) 1 mg/L

according to Regulation (EC) No. 1907/2006

ARALDITE® 2053-05 A

Version 1.2	Revision Date: 10.06.2022	SDS Number: 400000010923	Date of last issue: 10.11.2020 Date of first issue: 10.11.2020
-			Print Date 16.01.2024
zinc oxide: Species Application Route Exposure time Dose Frequency of Treatment NOAEL Remarks			
Repr	oductive toxicity		
Com	ponents:		
Effect	yl methacrylate: ts on foetal opment	Dose: 99, 304 Teratogenicit Embryo-foeta Method: OEC	oute: Inhalation 4, 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, General Toxic Fertility: NOA Symptoms: R	vo-generation study male and female oute: Oral 150, 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, Duration of S Frequency of General Toxic Development Embryo-foeta Method: OEC Result: No ef development Test Type: Pr Species: Rab Application R Dose: 50, 150 Duration of S Frequency of	female oute: Inhalation 100, 200 or 300 ppm ingle Treatment: 14 d Treatment: 7 days/week city 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



according to Regulation (EC) No. 1907/2006

ARALDITE® 2053-05 A



Version 1.2	Revision Date: 10.06.2022	SDS Number: 400000010923	Date of last issue: 10.11.2020 Date of first issue: 10.11.2020
			Print Date 16.01.2024
			I Toxicity: NOAEL F1: 450 mg/kg body weight acts on fertility and early embryonic vere detected.
octad	decyl methacrylate:		
	ts on fertility	Application Ro Dose: >= 1000 Frequency of T) milligram per kilogram Freatment: 7 days/week) Test Guideline 422
		Application Ro Dose: 400 mill Frequency of ⊺	igram per kilogram Freatment: 7 days/week D Test Guideline 416
	ts on foetal lopment	Application Ro General Toxici Method: OECI	male and female ute: Oral ty Maternal: NOAEL: 1 000 mg/kg body weight D Test Guideline 422 atogenic effects
		Method: OECE	
hexa	decyl methacrylate:		
Effec	ts on fertility	Application Ro Dose: >=1000 Frequency of T	milligram per kilogram Freatment: 7 days/week D Test Guideline 422
		Application Ro Frequency of 1	Freatment: 7 days/week D Test Guideline 416
	ts on foetal lopment	Application Ro General Toxici Method: OECI	male and female ute: Oral ty Maternal: NOAEL: 1 000 mg/kg body weight D Test Guideline 422 atogenic effects
		Species: Rat, f Application Ro General Toxici	

according to Regulation (EC) No. 1907/2006

ARALDITE® 2053-05 A

HUNTSMAN

sion	Revision Date: 10.06.2022	SDS Number: 400000010923	Date of last issue: 10.11.2020 Date of first issue: 10.11.2020		
			Print Date 16.01.20		
		Method: OECD Result: No tera) Test Guideline 414 togenic effects		
zinc o	oxide:				
Effects on fertility		Species: Rat, n Application Rou Dose: 7.5/15/30 General Toxicit General Toxicit Method: OECD Remarks: Infor	Test Type: Two-generation study Species: Rat, male and female Application Route: Oral Dose: 7.5/15/30 mg/kg bw/day General Toxicity - Parent: LOAEL: 7,5 mg/kg body weight General Toxicity F1: NOAEL: 15 mg/kg body weight Method: OECD Test Guideline 416 Remarks: Information given is based on data obtained from similar substances.		
Effects on foetal development		Species: Rat Application Rou Dose: 0.3/1.5/7 Duration of Sin General Toxicit Developmental Method: OECD	Test Type: Pre-natal Species: Rat Application Route: inhalation (dust/mist/fume) Dose: 0.3/1.5/7.5 mg/m3 Duration of Single Treatment: 6 h General Toxicity Maternal: NOAEC: 1,5 mg/m ³ Developmental Toxicity: NOAEC: 7,5 mg/m ³ Method: OECD Test Guideline 414 Result: No teratogenic effects		
2,2'-[((4-methylphenyl)imi	no]bisethanol:			
Effects on foetal development		Duration of Sin General Toxicit Developmental Method: OECD GLP: yes	emales ute: Oral 500 milligram per kilogram gle Treatment: 15 d ty Maternal: NOAEL: 200 mg/kg body weight Toxicity: NOAEL: >= 600 mg/kg body weight 0 Test Guideline 414 mation given is based on data obtained from		
STO	「- single exposure				
<u>Com</u>	ponents:				
meth	yl methacrylate:				
Exposure routes : Target Organs : Assessment :		: Inhalation : Respiratory Tra : May cause resp	act piratory irritation.		
meth	acrylic acid:				
Expo: Targe	sure routes et Organs ssment		act or mixture is classified as specific target orga exposure, category 3 with respiratory tract		

according to Regulation (EC) No. 1907/2006

ARALDITE® 2053-05 A

rsion	Revision Date: 10.06.2022	SDS Number: 400000010923	Date of last issue: 10.11.2020 Date of first issue: 10.11.2020
			Print Date 16.01.202
octad	ecyl methacrylate:		
	sure routes	: Inhalation	
	t Organs	: Respiratory Tr	
Asses	sment	: May cause res	piratory irritation.
hexad	lecyl methacrylate:		
	sure routes	: Inhalation	
	t Organs	: Respiratory Tr	
Asses	sment	: May cause res	piratory irritation.
E-Cap	prolactone, oligomer	s, esters with 2-hydr	oxyethyl methacrylate, phosphate:
	sure routes	: Inhalation	
•	t Organs	: Respiratory sy	
Asses	sment	: May cause res	piratory irritation.
STOT	- repeated exposure)	
No da	ta available		
Repea	ated dose toxicity		
Comp	oonents:		
-	/I methacrylate:		
Specie		: Rat, male and	female
NOAE	ation Route	: 124,1 mg/kg : oral (drinking v	vater)
	sure time	: 2 years	
	er of exposures	: daily	
Dose		: 6, 60, 2000 pp	m
metha	acrylic acid:		
Specie	es	: Rat, male and	female
NOEC		: 352 - 1232 mg	
	ation Route	: inhalation (vap	our)
	atmosphere sure time	: vapour : 90 d	
	er of exposures	: 6h	
Dose		: 70/352/1232 m	ng/m3
	equent observation	: 5 days/week	
perioc Metho		: OECD Test Gu	uideline 413
GLP		: yes	
octad Specie	ecyl methacrylate:	: Rat, male and	female
NOAE		: 1000 mg/kg	IEIIIAIE
	ation Route	: Ingestion	
Numb	er of exposures	: 7 d	
Metho	od	: Subchronic to	kicity
Speci		: Rat, male and	female
NOAE	EL	: 120 mg/kg	



according to Regulation (EC) No. 1907/2006

ARALDITE® 2053-05 A



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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
			Print Date 16.01.2024
Expos	cation Route sure time per of exposures od	: Ingestion : 2 160 h : 7 d : Subchronic tox	icity
hexad	decyl methacrylate:		
	EL cation Route per of exposures	: Rat, male and f : 1000 mg/kg : Ingestion : 7 d : Subchronic tox	
Expos	EL cation Route sure time per of exposures	: Rat, male and f : 120 mg/kg : Ingestion : 2 160 h : 7 d : Subchronic tox	
zinc o	oxide:		
Expos	- cation Route sure time per of exposures od	 Mouse, male at 3000 ppm Ingestion 13 Weeks 7 d Subchronic tox Information give substances. 	
Expos	cation Route sure time per of exposures	: Rat, male : inhalation (dust : 13 weeks 6 h : 5 days/week : 0.3, 1.5 and 4.5 : OECD Test Gu : yes	5 mg/m3
Expos		: Rat, male and f : 75 mg/kg : Dermal : 28 days 6 h : 5 days/week : 0, 75, 180, and	female 360 mg/kg bw/d
2,2'-[((4-methylphenyl)imi	no]bisethanol:	
Expos	EL cation Route sure time per of exposures	: Rat, male and f : 100 mg/kg : Oral : 28 d : daily : 100/300/600/10 : OECD Test Gu : yes	000 mg/kg bw/day

according to Regulation (EC) No. 1907/2006

ARALDITE® 2053-05 A

Version 1.2	Revision Date: 10.06.2022	SDS Number: 400000010923	Date of last issue: 10.11.2020 Date of first issue: 10.11.2020	
			Print Date 16.01.2024	
Rema	arks	: Information g substances.	iven is based on data obtained from similar	
-	r ation toxicity ata available			
11.2 Infor	mation on other haza	ards		
Endo	crine disrupting pro	perties		
Prod	uct:			
Asses	ssment	considered to to REACH A (EU) 2017/21	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	
Expe	rience with human e	xposure		
-	ata available	•		
Toxic	cology, Metabolism,	Distribution		
No da	ata available			
	ological effects			
No da	ata available			
Furth	er information			
Prod				
Rema	arks	: 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)



according to Regulation (EC) No. 1907/2006

ARALDITE® 2053-05 A

HUNTSMAN

ersion .2	Revision Date: 10.06.2022		0S Number: 0000010923	Date of last issue: 10.11.2020 Date of first issue: 10.11.2020
				Print Date 16.01.2024
			Test Type: flow-tl Method: OECD T	nrough test est Guideline 211
metha	acrylic acid:			
Toxicity to fish		:	End point: mortal Exposure time: 9 Test Type: flow-th Test substance: F Method: Fish Acu GLP: yes	6 h nrough test Fresh water
Toxicity to daphnia and other aquatic invertebrates		:	End point: Immob Exposure time: 4 Test Type: flow-th Analytical monito Test substance: f	8 h hrough test ring: yes
	Toxicity to algae/aquatic plants		Exposure time: 7 Test Type: static Analytical monito Test substance: I	test ring: yes
			Exposure time: 7 Test Type: static Analytical monito Test substance: I	test ring: yes
Toxici	ity to microorganisms	:	EC50 (Pseudomo Exposure time: 1 Test Type: static Analytical monito Test substance: F Method: DIN 38 4 GLP: yes	test ring: no Fresh water
Toxicity to fish (Chronic toxicity)		:	Test Type: flow-th Analytical monito Test substance: f	lanio rerio (zebrafish) nrough test ring: yes

according to Regulation (EC) No. 1907/2006

ARALDITE® 2053-05 A

HUNTSMAN

Version 1.2	Revision Date: 10.06.2022		OS Number: 0000010923	Date of last issue: 10.11.2020 Date of first issue: 10.11.2020
				Print Date 16.01.2024
			GLP: yes	
aquat	ity to daphnia and other ic invertebrates nic toxicity)	:	NOEC: 53 mg/l Exposure time: 2 ^o Species: Daphnia Test Type: flow-th Analytical monitor Test substance: F Method: OECD T GLP: yes	n magna (Water flea) nrough test ring: yes Fresh water
zinc c	oxide:			
M-Fac toxicit	ctor (Acute aquatic y)	:	1	
M-Fac toxicit	ctor (Chronic aquatic y)	:	1	
Ecoto	oxicology Assessment			
Acute	aquatic toxicity	:	Very toxic to aqua	atic life.
Chror	nic aquatic toxicity	:	Very toxic to aqua	atic life with long lasting effects.
2,2'-[([4-methylphenyl)imino]	bis	ethanol:	
Toxici	ity to fish	:	End point: mortali Exposure time: 96 Test Type: static Analytical monitor Test substance: F Method: OECD T GLP: yes	5 h test ring: yes
	ity to daphnia and other ic 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
Toxici plants	ity to algae/aquatic	:	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

according to Regulation (EC) No. 1907/2006

HUNTSMAN

ARALD	DITE® 2053-05 A	l	
Version 1.2	Revision Date: 10.06.2022	SDS Number: 400000010923	Date of last issue: 10.11.2020 Date of first issue: 10.11.2020
			Print Date 16.01.2024
		Remarks: Bas	ed on data from similar materials
		mg/l Exposure time Test Type: sta Analytical mor Test substanc Method: OECI GLP: yes	tic test
Toxic	ity to microorganisms	Exposure time Test Type: sta Analytical mor Test substanc Method: OECI GLP: yes	tic test hitoring: no e: Fresh water D Test Guideline 209 rmation given is based on data obtained from
12.2 Persi	istence and degradabi	ility	
Com	ponents:		
	yl methacrylate: egradability	: Result: Readil Biodegradatio Exposure time	
	acrylic acid: egradability	Biodegradation Exposure time	vated sludge : 3 mg/l y biodegradable. n: 86 %
	(4-methylphenyl)iminc egradability	b]bisethanol: : Test Type: aei	robic
biodegradability		Inoculum: actin Concentration Result: Not bio Biodegradation Exposure time Method: OECI GLP: yes	vated sludge, non-adapted : 18 mg/l odegradable n: 1,5 %

according to Regulation (EC) No. 1907/2006

ARALDITE® 2053-05 A

HUNTSMAN
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Revision Date: 10.06.2022	SDS Number: 400000010923	Date of last issue: 10.11.2020 Date of first issue: 10.11.2020
		Print Date 16.01.202
cumulative potentia	al	
oonents:		
/I methacrylate:		
cumulation	: Bioconcentration	on factor (BCF): 3
	: log Pow: 1,38	
acrylic acid:		
on coefficient: n-	: log Pow: 0,93 (pH: 2,2	(22 °C)
lecyl methacrylate:		
	: log Pow: 8,64 Method: QSAR GLP: no	2
4-methylphenyl)imi	no]bisethanol:	
	: log Pow: 2 (35 pH: 7 Method: OECD	°C)) Test Guideline 117
•		
Its of PBT and vPvB	assessment	
<u>ict:</u>		
sment	to be either per	e/mixture contains no components considered rsistent, bioaccumulative and toxic (PBT), or and very bioaccumulative (vPvB) at levels of
crine disrupting pro	perties	
	-	
	considered to h to REACH Artic	/mixture does not contain components have endocrine disrupting properties according cle 57(f) or Commission Delegated regulation 0 or Commission Regulation (EU) 2018/605 at or higher
adverse effects		
onal ecological	unprofessional	ntal hazard cannot be excluded in the event of handling or disposal. atic life with long lasting effects.
	ccumulative potentia <u>ponents:</u> // methacrylate: cumulation on coefficient: n- ol/water acrylic acid: on coefficient: n- ol/water decyl methacrylate: on coefficient: n- ol/water 4-methylphenyl)imit on coefficient: n- ol/water 4-methylphenyl)imit on coefficient: n- ol/water ity in soil ta available Its of PBT and vPvB Ict: ssment	cumulative potential ponents: yl methacrylate: cumulation : bioconcentration con coefficient: n- : bi/water : acrylic acid: : con coefficient: n- : bi/water : acrylic acid: : on coefficient: n- : on coefficient: n- : bi/water : on coefficient: n- : on coefficient: n- : ion coefficient: n- : on coefficient: n- : on coefficient: n- : on coefficient: n- : on coefficient: n- : ity in soil ta available Its of PBT and vPvB assessment : Ict: : issment : This substance crine disrupting properties : ict: : The substance considered to ft to REACH Artii : (EU) 2017/210 : evels of 0.1% :

according to Regulation (EC) No. 1907/2006

ARALDITE® 2053-05 A

Version Revis 1.2 10.06

Revision Date: 10.06.2022

SDS Number: 400000010923 Date of last issue: 10.11.2020 Date of first issue: 10.11.2020

Print Date 16.01.2024

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 Number Labels		II F1 33 3

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30 / 34

according to Regulation (EC) No. 1907/2006

Revision Date:

10.06.2022

ARALDITE® 2053-05 A

Version

1.2



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1.2	10.00.2022	40	0000010923	Date of first issue. TO. I	1.2020
				I	Print D
	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	:	ll 3 F-E, S-D		
	IATA (Cargo) Packing instruction (cargo aircraft) Packing instruction (LQ) Packing group Labels	:	364 Y341 II Flammable Liquid	s	
	IATA (Passenger) Packing instruction (passenger aircraft) Packing instruction (LQ) Packing group Labels	:	353 Y341 II Flammable Liquid	S	
14.5	5 Environmental hazards				
	ADN Environmentally hazardous	:	no		
	ADR Environmentally hazardous	:	no		
	RID Environmentally hazardous	:	no		

SDS Number:

40000010923

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

according to Regulation (EC) No. 1907/2006

ARALDITE® 2053-05 A

Version 1.2	Revision Date: 10.06.2022	SDS Number: 400000010923	Date of last issue: 10.11.2020 Date of first issue: 10.11.2020
			Print Date 16.01.2024
(Ann	ex XIV)		
	CH - Candidate List of S cern for Authorisation (A		gh : This product does not contain substances of very high concern (Regulation (EC) No 1907/2006 (REACH), Article 57).
	eso III: Directive 2012/18 r-accident hazards invol		
	upational Illnesses (R- 3, France)	: 65, 82, 36, 25	
prote	llations classified for the ection of the environmen ironment Code R511-9)		
Othe	r regulations:		
Take	•		of young people at work or stricter national
The	components of this pro	oduct are reported i	n the following inventories:
DSL		: This product co	ntains one or several components that are not n DSL nor NDSL.
AIIC		: Not in complian	ce with the inventory
NZIo	С	: Not in complian	ce with the inventory
ENC	S	: Not in complian	ce with the inventory
KECI	I	: Not in complian	ce with the inventory
PICC	S	: Not in complian	ce with the inventory
IECS	SC		d to be imported / manufactured only by the e contact your Huntsman sales representative ation.
TCSI	I	: On the inventor	y, or in compliance with the inventory
TSC	A	: On or in compli	ance with the active portion of the TSCA

inventory



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according to Regulation (EC) No. 1907/2006

ARALDITE® 2053-05 A

Version	Revis
1.2	10.06

ion Date: 6.2022 SDS Number: 400000010923 Date of last issue: 10.11.2020 Date of first issue: 10.11.2020

Print Date 16.01.2024

Inventories

AICS (Australia), AIIC (Australia), DSL (Canada), IECSC (China), ENCS (Japan), KECI (Korea), NZIOC (New Zealand), PICCS (Philippines), TCSI (Taiwan), TSCA (United States of America (USA))

15.2 Chemical safety assessment

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

SECTION 16: Other information

Full text of H-Statements				
H225	:	Highly flammable liquid	and vapour.	
H302	:	Harmful if swallowed.		
H311		Toxic in contact with skin.		
H314		Causes severe skin bur	ns and eye damage.	
H315		Causes skin irritation.		
H317	:	May cause an allergic s		
H318	:	Causes serious eye dar		
H319	:	Causes serious eye irrit	ation.	
H332		Harmful if inhaled.		
H335		May cause respiratory in		
H400		Very toxic to aquatic life		
H410	:	Very toxic to aquatic life		
H412	•	Harmful to aquatic life w	ith long lasting ellects.	
Full text of other abbreviation	ons			
Acute Tox.	:	Acute toxicity		
Aquatic Acute	:	Short-term (acute) aqua		
Aquatic Chronic	:	Long-term (chronic) aqu	latic hazard	
Eye Dam.		Serious eye damage		
Eye Irrit.		Eye irritation		
Flam. Liq.	:	Flammable liquids		
Skin Corr.	:	Skin corrosion		
Skin Irrit.		Skin irritation		
Skin Sens.		Skin sensitisation		
STOT SE	:	Specific target organ to		
2009/161/EU	:		DIRECTIVE 2009/161/EU establishing	
			occupational exposure limit values in	
			cil Directive 98/24/EC and amending	
		Commission Directive 2		
FR VLE	:	France. Occupational E		
2009/161/EU / TWA	:	Limit Value - eight hours		
2009/161/EU / STEL	:	Short term exposure lim		
FR VLE / VME		Time Weighted Average		
FR VLE / VLCT (VLE)	:	Short Term Exposure Li	mit	
Further information				
Classification of the mixture	e:		Classification procedure:	
Flam. Liq. 2	H2	25	Based on product data or assessment	
Skin Irrit. 2	H315		Calculation method	



according to Regulation (EC) No. 1907/2006

ARALDITE® 2053-05 A

Version 1.2	Revision Date: 10.06.2022	SDS Number: 400000010923	Date of last issue: 10.11.2020 Date of first issue: 10.11.2020
			Print Date 16.01.2024
Eye D)am. 1	H318	Calculation method
Skin Sens. 1		H317	Calculation method
STOT SE 3		H335	Calculation method
Aquatic Chronic 3		H412	Calculation method

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