# SAFETY DATA SHEET

ARALDITE® 2021



#### SECTION 1: Identification of the substance/mixture and of the company/undertaking **1.1 Product identifier** Product name : ARALDITE® 2021 : 00047605 **Product code Product description** ŝ 1.2 Relevant identified uses of the substance or mixture and uses advised against : Acrylate adhesive Product use 1.3 Details of the supplier of the safety data sheet **Supplier** : Huntsman Advanced Materials (Europe)BVBA **Everslaan 45** 3078 Everberg / Belgium Tel.: +41 61 299 20 41 Fax: +41 61 299 20 40 : Global\_Product\_EHS\_AdMat@huntsman.com e-mail address of person responsible for this SDS 1.4 Emergency telephone number

# <u>Supplier</u>

Telephone number	: EUROPE: +32 35 75 1234 France ORFILA: +33(0)145425959 ASIA: +65 6336-6011 China: +86 20 39377888 Australia: 1800 786 152 New Zealand: 0800 767 437 USA: +1/800/424.9300

# **SECTION 2: Hazards identification**

### 2.1 Classification of the substance or mixture

Product definition : Working pack (preparation)

## Classification according to Directive 1999/45/EC [DPD]

The product is classified as dangerous according to Directive 1999/45/EC and its amendments.

Classification	: F; R11 Xi; R37/38 R43
Physical/chemical hazards	: Highly flammable.
Human health hazards	: Irritating to respiratory system and skin. May cause sensitisation by skin contact.
Additional information	: According to Directive 99/45/EC, Article 6, Paragraph 1b, classification derived from direct toxicological testing of the preparation take precedence over classification derived from using the conventional (calculation) method.

See Section 16 for the full text of the R phrases or H statements declared above. See Section 11 for more detailed information on health effects and symptoms.

#### 2.2 Label elements

ARALDITE 2021				2/14
Date of printing	: 1	7 June 2012	MSDS no.	: 00047605
Date of issue	: 7	7 June 2012	Version	: 1.01
SECTION 2: Hazards	ic	lentification		
Hazard symbol or symbols	:			
Indication of danger	:	Highly flammable, Irr	itant	
Risk phrases	:		le. espiratory system and skin sitisation by skin contact.	
Safety phrases	:	medical advice. S36/37/39- Wear sui S45- In case of accid (show the label wher	act with eyes, rinse immedi table protective clothing, gl lent or if you feel unwell, se e possible).	ately with plenty of water and seek oves and eye/face protection. ek medical advice immediately ately and show this container or label
Hazardous ingredients	:	methyl methacrylate methacrylic acid		
Supplemental label elements	:	Not applicable.		
Special packaging requirem	en	<u>ts</u>		
Containers to be fitted with child-resistant fastenings	:	Not applicable.		
Tactile warning of danger	:	Not applicable.		
2.3 Other hazards				
Other hazards which do not result in classification	:	Not available.		

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

Substance/mixture

: Working pack (preparation)

<b>Conforms to Regulatio</b>	n (EC) No. 1907/2006 (REACH	I), Annex II - United Kingdor	m (UK)
ARALDITE 2021			3/14
Date of printing	: 7 June 2012	MSDS no.	: 00047605
Date of issue	: 7 June 2012	Version	: 1.01

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

			Class		
Product/ingredient name	Identifiers	%	67/548/EEC	Regulation (EC) No. 1272/2008 [CLP]	Туре
methyl methacrylate	CAS: 80-62-6 EC: 201-297-1	60-100	F; R11 Xi; R37/38 R43	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Skin Sens. 1, H317 STOT SE 3, H335	[1] [2]
methacrylic acid	CAS: 79-41-4 EC: 201-204-4	3-7	Xn; R21/22 C; R35	Acute Tox. 4, H302 Acute Tox. 3, H311 Acute Tox. 4, H332 Skin Corr. 1A, H314 Eye Dam. 1, H318 STOT SE 3, H335	[1] [2]
			See Section 16 for the full text of the R- phrases declared above.	See Section 16 for the full text of the H statements declared above.	

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Type

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

[3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII

[4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

Occupational exposure limits, if available, are listed in Section 8.

## **SECTION 4: First aid measures**

4.1 Description of first aid me	asures
Eye contact	: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.
Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Skin contact	: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	: Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Date of issue / Date of revision : 6/7/2012.

ARALDITE 2021			4/1	
Date of printing	: 7 June 2012	MSDS no.	: 00047605	
Date of issue	: 7 June 2012	Version	: 1.01	
SECTION 4: First ai	d measures			
Protection of first-aiders	may be dangerous t		sk or without suitable training. It give mouth-to-mouth resuscitation. r before removing it, or wear	
4.2 Most important symptor	ms and effects, both act	ite and delayed		
Potential acute health effe	<u>cts</u>			
Eye contact	: May cause eye irrita	tion.		
Inhalation	: Irritating to respirate	: Irritating to respiratory system.		
Skin contact	: Irritating to skin. Ma	y cause sensitisation by skin	contact.	
Ingestion	: Irritating to mouth, the	proat and stomach.		
Over-exposure signs/sym	<u>otoms</u>			
Eye contact	: No specific data.			
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing			
Skin contact	: Adverse symptoms irritation redness	may include the following:		
Ingestion	: No specific data.	: No specific data.		
4.3 Indication of any immed	liate medical attention a	nd special treatment neede	d	
Notes to physician	<ul> <li>Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.</li> </ul>			
Specific treatments	<ul> <li>Symptomatic treatment and supportive therapy as indicated. Following severe exposure the patient should be kept under medical review for at least 48 hours.</li> </ul>			

# SECTION 5: Firefighting measures

5.1 Extinguishing media	
Suitable extinguishing media	: Use dry chemical, CO <sub>2</sub> , water spray (fog) or foam.
Unsuitable extinguishing media	: Do not use water jet.
5.2 Special hazards arising	rom the substance or mixture
Hazards from the substance or mixture	: Highly flammable liquid. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Runoff to sewer may create fire or explosion hazard.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide
5.3 Advice for firefighters	
Special precautions for fire-fighters	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

**Date of issue / Date of revision** : 6/7/2012.

	fighting magazuraa			
Date of issue	: 7 June 2012	Version	: 1.01	
Date of printing	: 7 June 2012	MSDS no.	: 00047605	
ARALDITE 2021				5/14
Conforms to Regulation	on (EC) No. 1907/2006 (REAC	H), Annex II - United Kingdo	m (UK)	

## SECTION 5: Firefighting measures

chemical incidents.	equipment for fire-fighters bre mo cor	e-fighters should wear appropriate protective equipment and self-contained eathing apparatus (SCBA) with a full face-piece operated in positive pressure ode. Clothing for fire-fighters (including helmets, protective boots and gloves) informing to European standard EN 469 will provide a basic level of protection for emical incidents.
---------------------	--	--

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

6.1 Personal precautions, prot	ctive equipment and emergency procedures
For non-emergency personnel	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also Section 8 for additional information on hygiene measures.
6.2 Environmental precautions	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
6.3 Methods and materials for	ontainment and cleaning up
Small spill	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Use spark-proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal contractor.
Large spill	Stop leak if without risk. Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Use spark-proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product.
6.4 Reference to other sections	See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

## **SECTION 7: Handling and storage**

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

#### 7.1 Precautions for safe handling

Protective measures
 Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapour or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use non-sparking tools. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by earthing and bonding containers and equipment before transferring material. Empty containers retain product residue and can be hazardous. Do not

**Date of issue / Date of revision** : 6/7/2012.

ARALDITE 2021			6/1-
Date of printing	: 7 June 2012	MSDS no.	: 00047605
Date of issue	: 7 June 2012	Version	: 1.01
SECTION 7: Handlin	ig and storage		
	reuse container.		
Advice on general occupational hygiene	handled, stored and eating, drinking and	I processed. Workers should smoking. Remove contamin ntering eating areas. See als	
7.2 Conditions for safe storage, including any incompatibilities	accordance with loc in original container area, away from inc Eliminate all ignition tightly closed and se must be carefully re	protected from direct sunlight ompatible materials (see sect sources. Separate from oxide ealed until ready for use. Con	regated and approved area. Store t in a dry, cool and well-ventilated tion 10) and food and drink. dizing materials. Keep container tainers that have been opened event leakage. Do not store in
Storage hazard class Huntsman Advanced Materials	: Storage class 3, Fla	mmable liquids	
7.3 Specific end use(s)			
Recommendations	: Not available.		
Industrial sector specific	: Not available.		

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

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

#### 8.1 Control parameters

solutions

**Occupational exposure limits** 

Product/ingredient name	Exposure limit values
methyl methacrylate	EH40/2005 WELs (United Kingdom (UK), 8/2007). STEL: 416 mg/m <sup>3</sup> 15 minute(s). STEL: 100 ppm 15 minute(s). TWA: 208 mg/m <sup>3</sup> 8 hour(s). TWA: 50 ppm 8 hour(s).
methacrylic acid	EH40/2005 WELs (United Kingdom (UK), 8/2007). STEL: 143 mg/m <sup>3</sup> 15 minute(s). STEL: 40 ppm 15 minute(s). TWA: 72 mg/m <sup>3</sup> 8 hour(s). TWA: 20 ppm 8 hour(s).

**Recommended monitoring procedures** : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to European Standard EN 689 for methods for the assessment of exposure by inhalation to chemical agents and national guidance documents for methods for the determination of hazardous substances.

**Date of issue / Date of revision** : 6/7/2012.

ARALDITE 2021			7/1
Date of printing	: 7 June 2012	MSDS no.	: 00047605
Date of issue	: 7 June 2012	Version	: 1.01
SECTION 8: Exposu	e controls/pers	sonal protection	
Derived effect levels			
No DELs available.			
Predicted effect concentrat	<u>ions</u>		
No PECs available.			
.2 Exposure controls			
Appropriate engineering controls	ventilation or othe contaminants belo also need to keep		worker exposure to airborne ory limits. The engineering control tions below any lower explosive
Individual protection measured	<u>ures</u>		
Hygiene measures	eating, smoking a Appropriate techn Contaminated wo contaminated clot	nd using the lavatory and at the iques should be used to remove rk clothing should not be allowe	e potentially contaminated clothing
Eye/face protection			dard should be used when a risk exposure to liquid splashes, mists
Skin protection			
Hand protection			with an approved standard should ducts if a risk assessment indicate
	Suitability and dur duration of contact	ved to relevant standards e.g. E ability of a glove is dependent o t, chemical resistance of glove suppliers. Additional informatio	on usage, e.g. frequency and material and dexterity. Always see
Body protection		and the risks involved and shou	ld be selected based on the task ld be approved by a specialist
Other skin protection	selected based or	ear and any additional skin prot the task being performed and ecialist before handling this proc	the risks involved and should be
Respiratory protection	must be based on		<ul> <li>protection. Respirator selection</li> <li>levels, the hazards of the producator.</li> </ul>
Environmental exposure controls	they comply with t cases, fume scrut		

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

9.1 Information on basic physic	cal and chemical properties
Appearance	
Physical state	: Liquid.
Colour	: Not available.
Odour	: Not available.
Odour threshold	: Not available.
рН	: Not available.
Melting point/freezing point	: Not available.

Date of issue / Date of revision : 6/7/2012.

7/14

ARALDITE 2021			8/1
Date of printing	: 7 June 2012	MSDS no.	: 00047605
Date of issue	: 7 June 2012	Version	: 1.01
SECTION 9: Physical	and chemica	I properties	
Initial boiling point and boil range	ing : 101°C		
Flash point	: Closed cup: 7	10.6°C [DIN 51758 EN 22719 (P	ensky-Martens Closed Cup)]
Evaporation rate	: Not available		
Flammability (solid, gas)	: Not available		
Burning time	: Not applicabl	e.	
Burning rate	: Not applicabl	e.	
Upper/lower flammability or explosive limits	: Not available		
Vapour pressure	: Not available	<u>.</u>	
Vapour density	: Not available		
Relative density	: Not available		
Solubility(ies)			
Water solubility	:		
Partition coefficient: n- octanol/water (LogKow)	: Not available		
Auto-ignition temperature	: Not available		
Decomposition temperature	Not available		
Viscosity	: Not available		
Explosive properties	: Not available		
Oxidising properties	: Not available		
9.2 Other information			
Density	: 1.03 g/cm <sup>3</sup> [2	25°C (77°F)]	

SECTION 10: Stabilit	y a	and reactivity
10.1 Reactivity	:	No specific test data related to reactivity available for this product or its ingredients.
10.2 Chemical stability	:	The product is stable.
10.3 Possibility of hazardous reactions	:	Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid	:	Avoid all possible sources of ignition (spark or flame). Do not pressurise, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.
10.5 Incompatible materials	:	Highly reactive or incompatible with the following materials: oxidizing materials
10.6 Hazardous decomposition products	:	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
		Decomposition products may include the following materials:Refer to SDS for individual components of the pack.

Date of issue / Date of revision : 6/7/2012.

<b>Conforms to Regulation</b>	n (EC) No. 1907/2006 (REACH	I), Annex II - United Kingdor	m (UK)
ARALDITE 2021			9/14
Date of printing	: 7 June 2012	MSDS no.	: 00047605
Date of issue	: 7 June 2012	Version	: 1.01

# **SECTION 11: Toxicological information**

## 11.1 Information on toxicological effects

## Acute toxicity

Product/ingredient name	Endpoint	Species	Result	Exposure
methyl methacrylate	LC50 Inhalation Vapour LD50 Dermal LD50 Oral	Rat Rabbit - Male Rat	7093 ppm >5000 mg/kg 7872 mg/kg	4 hours - -
methacrylic acid	LC50 Inhalation Dusts and mists LD50 Dermal	Rat - Male, Female Rat	7.1 ml/l 500 to 1000	4 hours -
	LD50 Oral	Rat	mg/kg 1320 mg/kg	-

### Irritation/Corrosion

Product/ingredient name	Test	Species	Route of exposure	Result
ARALDITE 2021	Data based on tests on similar product	Rabbit	Skin	Irritant
	Data based on tests on similar product	Rabbit	Eyes	Non-irritant.

#### **Conclusion/Summary**

Skin	: ARALDITE® 2021 Irritating to skin.
	No additional information.
Eyes	: ARALDITE® 2021 Non-irritating to the eyes.
	No additional information.
Respiratory	: No additional information.

#### **Sensitiser**

		Test	Route of exposure	Species	Result
methyl methacrylate	-		skin Respiratory	Not known Not known	Sensitising Sensitising
Conclusion/Summary	: No	additional i	information.		
<u>Mutagenicity</u>					
Carcinogenicity					
Reproductive toxicity					
<u>Feratogenicity</u>					
nformation on the likely outes of exposure	: No	t available.			
· Potential acute health effect	<u>cts</u>				
Inhalation	: Irri	tating to res	spiratory system.		
Ingestion	: Irri	tating to mo	outh, throat and stor	mach.	
Skin contact	: Irri	tating to ski	n. May cause sens	sitisation by skin contact.	
Eye contact	: Ma	ay cause eye	e irritation.		
Symptoms related to the p	hysical	, chemical	and toxicological	characteristics	
Inhalation	res	verse symp spiratory trad ughing	otoms may include t ct irritation	he following:	
Ingestion	: No	specific da	ita.		
Skin contact	irri	verse symp tation Iness	otoms may include t	he following:	
Eye contact	: No	specific da	ita.		

ARALDITE 2021						10/14
Date of printing	: 1	7 June 2012	MSDS no.	:	00047605	
Date of issue	: 1	7 June 2012	Version	:	1.01	
SECTION 11: Toxicol	0	gical informat	ion			
Delayed and immediate effe	cts	and also chronic	effects from short and long te	erm expos	<u>ure</u>	
Short term exposure						
Potential immediate effects	:	Not available.				
Potential delayed effects	:	Not available.				
Long term exposure						
Potential immediate effects	:	Not available.				
Potential delayed effects	:	Not available.				
Potential chronic health effe	ect	<u>s</u>				
Conclusion/Summary	:	Not available.				
General	1	Once sensitized, a to very low levels.	severe allergic reaction may oc	cur when s	ubsequently e	xposed
Carcinogenicity	:	No known significa	nt effects or critical hazards.			
IARC	:	methyl methacrylat	e			3
Mutagenicity	1	No known significa	nt effects or critical hazards.			
Teratogenicity	1	No known significa	nt effects or critical hazards.			
Developmental effects	:	No known significa	nt effects or critical hazards.			
Fertility effects	:	No known significa	nt effects or critical hazards.			
Other information	1	Not available.				

## **SECTION 12: Ecological information**

#### 12.1 Toxicity

#### 12.2 Persistence and degradability

#### **12.3 Bioaccumulative potential**

Not available.

12.4 Mobility in soil	
Soil/water partition coefficient (Koc)	: Not available.
Mobility	: Not available.

#### 12.5 Results of PBT and vPvB assessment

Not applicable.

**12.6 Other adverse effects** : No known significant effects or critical hazards.

#### 12.7 Other ecological information

## **SECTION 13: Disposal considerations**

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

#### **13.1 Waste treatment methods**

**Product** 

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II - United Kingdom (UK)					
ARALDITE 2021			11/14		
Date of printing	: 7 June 2012	MSDS no.	: 00047605		
Date of issue	: 7 June 2012	Version	: 1.01		

## **SECTION 13: Disposal considerations**

Methods of disposal : The generation of waste should be avoided or minimised wherever possible. Significant quantities of waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

Hazardous waste : Yes.

European waste catalogue (EWC)

Waste code	Waste designation			
07 02 08*	other still bottoms and reaction residues			
Packaging				
Methods of disposal	: The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.			
Special precautions	: This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.			

# **SECTION 14: Transport information**

	14.1 UN number	14.2 UN proper shipping name
ADR/RID	UN1133	ADHESIVES (methyl methacrylate)
IMDG	UN1133	ADHESIVES (methyl methacrylate)
ΙΑΤΑ	UN1133	ADHESIVES (methyl methacrylate)

	14.3 Transport hazard class(es)	14.4 Packing group	14.5 Environmental hazards	14.6 Special precautions for user	Additional information
ADR/RID	3	11	No.	Not available.	Hazard identification number 33 Special provisions 640D Tunnel code D/E

ARALDITE	2021				12/14
Date of printing : 7 June 2012 MSD		MSDS no.		: 00047605	
Date of iss	sue	: 7 June 2012	Version	<b>n</b> : 1.01	
SECTIC	N 14: Tra	Insport informatio	'n		
IMDG	3		No.	Not available.	Emergency schedules (EmS) F-E, S-D
ΙΑΤΑ	3		No.	Not available.	Passenger and Cargo AircraftQuantity limitation: 5 LPackaging instructions: 353Cargo Aircraft OnlyQuantity limitation: 60 L Packaging 

14.7 Transport in bulk: Not applicable.according to Annex II ofMARPOL 73/78 and the IBCCode

## **SECTION 15: Regulatory information**

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

### EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substan	nce	es subject to authorisation
Substances of very high	CO	ncern
None of the components a	are	listed.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	:	Not applicable.
Other EU regulations		
Europe inventory	:	All components are listed or exempted.
Black List Chemicals	:	Not listed
Priority List Chemicals	:	Listed
Integrated pollution prevention and control list (IPPC) - Air	:	Not listed
Integrated pollution prevention and control list (IPPC) - Water	:	Not listed
National regulations		
References	:	The provision of Safety Data Sheets comes under Regulation 6 of CHIP (CHIP is the recognised abbreviation for the Chemicals Hazard Information and Packaging Regulations). This is an addition to the Health and Safety at Work Act 1974.
International regulations		
Chemical Weapons Convention List Schedule I Chemicals	:	Not listed

ARALDITE 2021			13/14
Date of printing	: 7 June 2012	MSDS no.	: 00047605
Date of issue	: 7 June 2012	Version	: 1.01
SECTION 15: Regula	tory informat	tion	
Chemical Weapons Convention List Schedule II Chemicals	: Not listed		
Chemical Weapons Convention List Schedule III Chemicals	: Not listed		
15.2 Chemical Safety Assessment	: This product co required.	ontains substances for which Ch	emical Safety Assessments are still
SECTION 16: Other i	nformation		
Indicates information that h	has changed from p	reviously issued version.	
Abbreviations and acronyms	1272/2008] DNEL = Derive EUH statement PNEC = Predic		Regulation [Regulation (EC) No.
Classification according to F	Regulation (EC) No	0. 1272/2008 [CLP/GHS]	
Flam. Liq. 2, H225 Skin Irrit. 2, H315 Skin Sens. 1, H317			
STOT SE 3, H335			
Procedure used to derive the	e classification acc	cording to Regulation (FC) No	
0110			
Classif			Justification
Classif Flam. Liq. 2, H225 Skin Irrit. 2, H315 Skin Sens. 1, H317 STOT SE 3, H335		Expert judgment Expert judgment Expert judgment Expert judgment Expert judgment	
Flam. Liq. 2, H225 Skin Irrit. 2, H315 Skin Sens. 1, H317 STOT SE 3, H335 Full text of abbreviated H	: H225 Highly H302 Harmi H311 Toxic H314 Cause H315 Cause H317 May c H318 Cause H332 Harmi	Expert judgment Expert judgment Expert judgment	Justification
Flam. Liq. 2, H225 Skin Irrit. 2, H315 Skin Sens. 1, H317	: H225 Highly H302 Harmi H311 Toxic H314 Cause H315 Cause H317 May c H318 Cause H332 Harmi	Expert judgment           Expert schedult           Expert schedult           Expert schedult           Expert schedult           Expert schedult           Expert schedult	Justification Image. SKIN - Category 3 ORAL - Category 4 NHALATION - Category 4 IAGE/ EYE IRRITATION - Category 1 DS - Category 2 IRRITATION - Category 1A IRRITATION - Category 2

Date of issue / Date of revision : 6/7/2012.

ARALDITE 2021				14/14
Date of printing	: 7 June 2012	MSDS no.	: 00047605	
Date of issue	: 7 June 2012	Version	: 1.01	
SECTION 16: Other	information			
Full text of classifications [DSD/DPD]	: F - Highly flammable C - Corrosive Xn - Harmful Xi - Irritant			
MSDS no.	: 00047605			
Date of printing	: 6/7/2012.			
Date of issue/ Date of revision	: 6/7/2012.			

#### Notice to reader

Version

Date of previous issue

While the information and recommendations in this publication are to the best of our knowledge, information and belief accurate at the date of publication, NOTHING HEREIN IS TO BE CONSTRUED AS A WARRANTY, EXPRESS OR OTHERWISE.

: 5/24/2011.

: 1.01

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

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

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

ARALDITE® is a registered trademark of Huntsman Corporation or an affiliate thereof in one or more countries, but not all countries.

NO PERSON OR ORGANIZATION EXCEPT A DULY AUTHORIZED HUNTSMAN EMPLOYEE IS AUTHORIZED TO PROVIDE OR MAKE AVAILABLE DATA SHEETS FOR HUNTSMAN PRODUCTS. DATA SHEETS FROM UNAUTHORIZED SOURCES MAY CONTAIN INFORMATION THAT IS NO LONGER CURRENT OR ACCURATE. NO PART OF THIS DATA SHEET MAY BE REPRODUCED OR TRANSMITTED IN ANY FORM, OR BY ANY MEANS, WITHOUT PERMISSION IN WRITING FROM HUNTSMAN. ALL REQUESTS FOR PERMISSION TO REPRODUCE MATERIAL FROM THIS DATA SHEET SHOULD BE DIRECTED TO HUNTSMAN, MANAGER, PRODUCT SAFETY AT THE ABOVE ADDRESS.