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

1.1 Product identifier				
Trade name	: ARALDITE® 2028-1 ISOCYANATE			
Substance name	: Hexamethylene diisocyanate, Polymer			
CAS-No.	: 28182-81-2			
EC-No.	: -			

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

Use of the	: Adhesives
Substance/Mixture	

1.3 Details of the supplier of the 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 number

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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SECTION 2: Hazards identification 2.1 Classification of the substance or mixture Classification (REGULATION (EC) No 1272/2008) Skin sensitisation, Category 1 H317: May cause an allergic skin reaction. 2.2 Label elements Labelling (REGULATION (EC) No 1272/2008) Hazard pictograms Signal word Warning Hazard statements H317 May cause an allergic skin reaction. Precautionary statements • Prevention: P261 Avoid breathing mist or vapours. P272 Contaminated work clothing should not be allowed out of the workplace. P280 Wear protective gloves. Response: P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention. Take off contaminated clothing and wash it P362 + P364 before reuse. Disposal: P501 Dispose of contents/container to an approved facility in accordance with local, regional, national and international regulations.

Additional Labelling:

As from 24 August 2023 adequate training is required before industrial or professional use.

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

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SECTION 3: Composition/information on ingredients

3.1 Substances	
Substance name	: Hexamethylene diisocyanate, Polymer
CAS-No.	: 28182-81-2
EC-No.	: -

Hazardous components

Chemical name	CAS-No. EC-No.	Concentration (% w/w)	M-Factor, SCL, ATE
Hexamethylene diisocyanate, oligomers	28182-81-2 Polymer	>= 90 - <= 100	
hexamethylene diisocyanate	822-06-0 212-485-8	>= 0,1 - < 0,5	specific concentration limit Resp. Sens. 1; H334 >= 0,5 % Skin Sens. 1; H317 >= 0,5 % Acute toxicity estimate Acute oral toxicity: 746 mg/kg Acute inhalation toxicity (vapour): 0,124 mg/l

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice	 Move out of dangerous area. Consult a physician. Show this safety data sheet to the doctor in attendance. Treat symptomatically. Get medical attention if symptoms occur.
Protection of first-aiders	 First Aid responders should pay attention to self-protection and use the recommended protective clothing If potential for exposure exists refer to Section 8 for specific personal protective equipment. Avoid inhalation, ingestion and contact with skin and eyes. No action shall be taken involving any personal risk or without suitable training.

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		-	ngerous to the person providing aid to give uth resuscitation.
lf inha	aled	If inhaled, re	ian or poison control centre immediately. move to fresh air. attention if symptoms occur.
In cas	se of skin contact	: If on skin, rin	se well with water.
In case of eye contact		Remove con Keep eye wie	vith water as a precaution. tact lenses. de open while rinsing. n 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 important symptoms and effects, both acute and delayed			

None known.

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

SECTION 5: Firefighting measures

5.1	Extinguishing media				
	Suitable extinguishing media	:	Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical		
	Unsuitable extinguishing media	:	Exercise caution when using a high volume water jet as it may scatter and spread fire		
5.2	5.2 Special hazards arising from the substance or mixture				
	Specific hazards during firefighting	:	No information available.		
	Hazardous combustion products	:	No hazardous combustion products are known		
5.3	5.3 Advice for firefighters				
	Special protective equipment for firefighters	:	Wear self-contained breathing apparatus for firefighting if necessary.		
	Specific extinguishing methods	:	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.		

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Further information

: No action shall be taken involving any personal risk or without suitable training.

SECTION 6: Accidental release measures

6.1 Personal precautions, protec Personal precautions	 tive equipment and emergency procedures Use personal protective equipment. Ensure adequate ventilation. Refer to protective measures listed in sections 7 and 8.
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 con	tainment and cleaning up

Methods for cleaning up	:	Soak up with inert absorbent material (e.g. sand, silica gel,
		acid binder, universal binder, sawdust).
		Keep in suitable, closed containers for disposal.

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. Dispose of rinse water in accordance with local and national regulations. Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.
Advice on protection against fire and explosion	:	Normal measures for preventive fire protection.



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I	Hygiene measure	S :	:	Wash hands befo	re breaks and at the er	nd of workday.
7.2 C	onditions for saf	e storage, in	nclu	uding any incomp	oatibilities	
	Requirements for areas and contain	-	:		phtly closed in a dry an operly labelled containe	
	Advice on commo	n storage	:	For incompatible SDS.	materials please refer	o Section 10 of this
	Recommended stetemperature	orage	:	2 - 40 °C		
	Further informatio storage stability	n on	:	Stable under norm	nal conditions.	
	pecific end use(Specific use(s)	5)	:	No data available		

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis	
		/	0.04		
hexamethylene	822-06-0	VME	0,01 ppm	FR VLE	
diisocyanate			0,075 mg/m3		
Further information	Risk for sensi	Risk for sensitisation of the airways, Indicative exposure limits			
		VLCT (VLE)	0,02 ppm	FR VLE	
			0,15 mg/m3		
Further information	Risk for sensitisation of the airways, Indicative exposure limits				

8.2 Exposure controls

Personal protective equipment Eye protection : Eye wash bottle with pure water Tightly fitting safety goggles Hand protection Material : butyl-rubber Break through time : >8h Material : Nitrile rubber Break through time : 10 - 480 min Material : Ethyl Vinyl Alcohol Laminate (EVAL) Break through time : >8h Remarks : The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard



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		replaced breakthro producer and of sp duration Chemica approved chemical necessar	erived from it. Gloves should be discarded and if there is any indication of degradation or chemical bugh. Take note of the information given by the concerning permeability and break through times, ecial workplace conditions (mechanical strain, of contact). -resistant, impervious gloves complying with an standard should be worn at all times when handling products if a risk assessment indicates this is y. The suitability for a specific workplace should be d with the producers of the protective gloves.
Sk	in and body protection		us clothing body protection according to the amount and ation of the dangerous substance at the work place.
Re	espiratory protection	: In the cas approved	se of vapour formation use a respirator with an filter.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	: liquid	
Colour	: yellow	
Odour	: slight	
Odour Threshold	: No data is available on the produc	t itself.
рН	: substance/mixture reacts with wate	er
Melting point/range	: No data available	
Boiling point/boiling range	: No data available	
Flash point	: 181 °C Method: closed cup	
Flammability (solid, gas)	: No data is available on the produc	t itself.
Upper explosion limit / Upper flammability limit	: No data is available on the produc	t itself.
Lower explosion limit / Lower flammability limit	: No data is available on the produc	t itself.
Vapour pressure	: <0,0001 hPa (20 °C)	
Relative vapour density	: No data is available on the produc	t itself.
Relative density	: 1,14 (20 °C)	



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	Density	ý	:	ca. 1,14 g/cm3 (20 °C)
Solubility(ies) Water solubility		:	insoluble (20 °C	;)	
	Solu	bility in other solvents	:	No data is availa	able on the product itself.
	Partition coefficient: n- octanol/water		:	No data is availa	able on the product itself.
	Auto-ignition temperature		:	ca. 480 °C Method: DIN Me	thod, other
Decomposition temperature		:	No data is availa	able on the product itself.	
	Viscosity Viscosity, dynamic		:	10 000 mPa.s (2 Method: ISO 32	
9.2 (Other in	nformation			
	Explos	ive properties	:	No data is availa	able on the product itself.
	Oxidizing properties		:	No data is availa	able on the product itself.
	Burning	g rate	:	No data is availa	able on the product itself.
	Evaporation rate		:	No data is availa	able on the product itself.
	Molecular weight		:	No data availabl	e

SECTION 10: Stability and reactivity

10.1 Reactivity

No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

10.4 Conditions to avoid

Conditions to avoid : Exposure to moisture

10.5 Incompatible materials

Materials to avoid : water

10.6 Hazardous decomposition products

Carbon oxides Nitrogen oxides (NOx)

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SECTION 11: Toxicological information

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

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Acute toxicity		
Product:		
Acute inhalation toxicity	:	Acute toxicity estimate: > 20 mg/l Exposure time: 4 h Test atmosphere: vapour Method: Calculation method
Components:		
Hexamethylene diisocyan	ate, c	bligomers:
Acute oral toxicity	:	LD50 (Rat): > 5 000 mg/kg
Acute dermal toxicity	:	LD50 (Rabbit): > 2 000 mg/kg Assessment: The substance or mixture has no acute dermal toxicity
hexamethylene diisocyana	ate:	
Acute oral toxicity	:	LD50 (Rat, male): 959 mg/kg Method: OECD Test Guideline 401
		LD50 (Rat, male): 746 mg/kg Method: OECD Test Guideline 401
		Acute toxicity estimate: 746 mg/kg Method: Calculation method
Acute inhalation toxicity	:	LC50 (Rat, male and female): 0,124 mg/l Exposure time: 4 h
		Test atmosphere: vapour Method: OECD Test Guideline 403
		Acute toxicity estimate: 0,124 mg/l Test atmosphere: vapour Method: Calculation method
Acute dermal toxicity	:	LD50 (Rat, male and female): > 7 000 mg/kg Method: OECD Test Guideline 402
Skin corrosion/irritation		
Components:		
Hexamethylene diisocyan	ate, c	bligomers:
Species		Rabbit

Species	: Rabbit
Method	: OECD Test Guideline 404
Result	: No skin irritation

hexamethylene diisocyanate:



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Species	:	Rabbit
Exposure time	:	4 h
Method	:	OECD Test Guideline 404
Result	:	Corrosive after 1 to 4 hours of exposure

Serious eye damage/eye irritation

Components:

Hexamethylene diisocyanate, oligomers:

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

hexamethylene diisocyanate:

Species	:	Rabbit
Method	:	OECD Test Guideline 405
Result	:	Irreversible effects on the eye

Respiratory or skin sensitisation

Components:

Hexamethylene diisocyanate, oligomers:

Exposure routes	:	Skin
Species	:	Guinea pig
Assessment	:	May cause sensitisation by skin contact.
Method	:	OECD Test Guideline 406

hexamethylene diisocyanate:

Test Type Exposure routes Species Method Result	:	Maximisation Test Skin Rabbit OECD Test Guideline 406 May cause sensitisation by skin contact.
Exposure routes Species Result	:	Respiratory Tract Guinea pig May cause sensitisation by inhalation.
Assessment	:	Harmful if inhaled., Causes skin irritation., Causes serious eye irritation. May cause an allergic skin reaction., May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Germ cell mutagenicity

Components:

Hexamethylene diisocyanate, oligomers:

Genotoxicity in vitro

: Metabolic activation: with and without metabolic activation Result: negative

hexamethylene diisocyanate:



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Geno	toxicity in vitro	Te Co Ma Re Te Te	est system: (oncentration etabolic active esult: negative est Type: Amest system: S	
		M		vation: with and without metabolic activation
Geno	toxicity in vivo	Sp Ce Ap E> De	becies: Mous ell type: Bon oplication Ro oposure time ose: 1.47 pp	oute: Inhalation e: 6 h m D Test Guideline 474
Carci	nogenicity			
Comp	oonents:			
hexar	nethylene diisocyana	ate:		
Expos Dose	cation Route sure time lency of Treatment od	: In : 24 : 0, : 6	at, male and halation month(s) 164 ppm hour ECD Test Ge egative	female uideline 453
Repro	oductive toxicity			
<u>Comp</u>	oonents:			
hexar	nethylene diisocyana	ate:		
Effect	s on fertility	Ap Ta M	oplication Ro arget Organs	male and female oute: Inhalation s: Nasal inner lining D Test Guideline 422 ve
	s on foetal opment	Ap Ge M	oplication Ro eneral Toxic ethod: OECI	male and female oute: Inhalation ity Maternal: NOAEL: 0,005 ppm D Test Guideline 414 atogenic effects

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STOT - single exposure

Components:

hexamethylene diisocyanate:	
Exposure routes	Inhalation

	•	Innalation
Target Organs	:	Respiratory Tract
Assessment	:	Causes damage to organs.

STOT - repeated exposure

Components:

hexamethylene diisocyanate:

Target Organs	:	Nasal inner lining
Assessment	:	Causes damage to organs through prolonged or repeated
		exposure.

Repeated dose toxicity

Components:

Hexamethylene diisocyanate, oligomers:

Species	:	Rat
NOEC	:	3,7 mg/m3
Exposure time	:	504 h

Species	:	Rat
NOEC	:	3,3 mg/m3
Exposure time	:	2 160 h

hexamethylene diisocyanate:

Species NOEC Application Route	:	Rat, male and female 0,005 ppm inhalation (vapour)
Test atmosphere	:	vapour
Exposure time	:	2 yr
Number of exposures	:	6 h
Method	:	OECD Test Guideline 453

Aspiration toxicity

No data available

11.2 Information on other hazards

Endocrine disrupting properties

Product:

Assessment

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

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Experience with human exposure No data available Toxicology, Metabolism, Distribution No data available Neurological effects No data available Further information

No data available

SECTION 12: Ecological information

12.1 Toxicity

Components:

Hexamethylene diisocyanate, oligomers:			
Toxicity to fish	:	LC50 (Brachydanio rerio (zebrafish)): > 100 mg/l Exposure time: 96 h	
Toxicity to daphnia and other aquatic invertebrates	:	LC50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 h	
Toxicity to algae/aquatic plants	:	EC50 (Desmodesmus subspicatus (green algae)): > 1 000 mg/l Exposure time: 72 h	
Toxicity to microorganisms	:	EC50 (activated sludge): > 1 000 mg/l Exposure time: 3 h	
hexamethylene diisocyanate	e:		
Toxicity to fish	:	LC50 (Brachydanio rerio (zebrafish)): > 82,8 mg/l Exposure time: 96 h Test Type: static test Test substance: Fresh water Method: Directive 67/548/EEC, Annex V, C.1.	
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): > 89,1 mg/l Exposure time: 48 h Test Type: static test Test substance: Fresh water Method: Directive 67/548/EEC, Annex V, C.2.	
Toxicity to algae/aquatic plants	:	EgC50 (Desmodesmus subspicatus (green algae)): > 77,4 mg/l Exposure time: 72 h Test Type: static test Test substance: Fresh water Method: Directive 67/548/EEC, Annex V, C.3.	
Toxicity to microorganisms	:	EC50 (activated sludge): 842 mg/l Exposure time: 3 h Test Type: static test	

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		Test substance: Method: OECD	: Fresh water Test Guideline 209
	oxicology Assessment e aquatic toxicity		s no known ecotoxicological effects.
Chro	nic aquatic toxicity	: This product ha	s no known ecotoxicological effects.
12.2 Pers	sistence and degradabil	ity	
	ponents:		
	amethylene diisocyanat	e, oligomers:	
Biode	egradability	: Result: Not biod Biodegradation: Exposure time:	0 %
hexa	methylene diisocyanat	e:	
	egradability	: Inoculum: activa Concentration: Result: Not read Biodegradation: Exposure time:	100 mg/l dily biodegradable. 48 %
12.3 Bioa	occumulative potential		
<u>Com</u>	ponents:		
	methylene diisocyanat ccumulation	: Bioconcentratio	n factor (BCF): 3,2 cumulation is unlikely.
12.4 Mob	ility in soil		
Com	ponents:		
hexa	methylene diisocyanat	e:	
	ibution among ronmental compartments	: Koc: 1665 - 586	1
12.5 Res	ults of PBT and vPvB as	ssessment	
Prod	luct:		
Asse	essment	to be either pers	mixture contains no components considered sistent, bioaccumulative and toxic (PBT), or and very bioaccumulative (vPvB) at levels of
12.6 End	ocrine disrupting prope	rties	
Prod	luct:		
Asse	essment		mixture does not contain components ave endocrine disrupting properties according
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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

No data available

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.

SECTION 14: Transport information

14.1 UN number or ID number

Not regulated as dangerous goods

14.2 UN proper shipping name

Not regulated as dangerous goods

14.3 Transport hazard class(es)

Not regulated as dangerous goods

14.4 Packing group

Not regulated as dangerous goods

14.5 Environmental hazards

Not regulated as dangerous goods

14.6 Special precautions for user

Not applicable

14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

REACH - List of substances subject to authorisation (Annex XIV)	: Not applicable
REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).	: This product does not contain substances of very high concern

(Regulation (EC) No



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				1907/2006 (REACH), Article 57).
		o III: Directive 2012/18/ accident hazards involv		arliament and of the Council on the control of nces.
		ational Illnesses (R- France)	: 62	
	Take n	regulations: ote of Directive 94/33/l ions, where applicable		f young people at work or stricter national
	The co	omponents of this pro	duct are reported in	the following inventories:
	DSL		: All components o	f this product are on the Canadian DSL
	AIIC		: On the inventory,	or in compliance with the inventory
	NZIoC		: On the inventory,	or in compliance with the inventory
	ENCS		: On the inventory,	or in compliance with the inventory
	KECI		: On the inventory,	or in compliance with the inventory
	PICCS		: On the inventory,	or in compliance with the inventory
	IECSC		: On the inventory,	or in compliance with the inventory
	TCSI		: On the inventory,	or in compliance with the inventory
	TSCA		: All substances lis	ted as active on the TSCA inventory

Inventories

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

15.2 Chemical safety assessment

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



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SECTION 16: Other information

FR VLE	:	France. Occupational Exposure Limits (INRS)
FR VLE / VME	:	Time Weighted Average
FR VLE / VLCT (VLE)	:	Short Term Exposure Limit

Further information

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