ARALDITE® 2035 B US

Versio 1.1	n Revision Date: 09/22/2022	SDS Number: 400000013118	Date of last issue: 07/27/2022 Date of first issue: 07/27/2022
SECT	ION 1. IDENTIFICATION	Prir	nt Date 09/13/2023 Chemical [™] Concepts
Р	roduct name	: ARALDITE®	0 2035 B US Our expertise is your solution.
M	lanufacturer or supplier's c	letails	chemical-concepts.com 800.220.1966 410 Pike Road • Huntingdon Valley, PA 19006
С	company name of supplier ddress	: Huntsman Ao : P.O. Box 498 The Woodlar TX 77387	
Т	elephone		ency: (800) 257-5547
E	-mail address	: Global_Produ	uct_EHS_AdMat@huntsman.com
E	mergency telephone number	: Chemtrec: (8	300) 424-9300 or (703) 527-3887

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)							
Acute toxicity (Oral)	: Category 4						
Skin corrosion	: Category 1B						
Serious eye damage	: Category 1						
Skin sensitisation	: Category 1						
Specific target organ toxicity - repeated exposure	: Category 2 (Kidney, Liver, Adrenal gland, spleen)						
Specific target organ toxicity - repeated exposure (Oral)	: Category 2 (Liver) Chemical [™] Concepts						
Short-term (acute) aquatic hazard	: Category 3 Our expertise is your solution.						
Long-term (chronic) aquatic hazard	: Category 3 chemical-concepts.com 800.220.1966 410 Pike Road • Huntingdon Valley, PA 19006						
GHS label elements							
Hazard pictograms							
Signal word	: Danger						
Hazard statements	: H302 Harmful if swallowed. H314 Causes severe skin burns and eye damage.						



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		H373 May caus gland, spleen) f H373 May caus repeated expos	Print Date 09/13/202 se an allergic skin reaction. se damage to organs (Kidney, Liver, Adrenal hrough prolonged or repeated exposure. se damage to organs (Liver) through prolonged sure if swallowed. o aquatic life with long lasting effects.
Preca	utionary statements	P264 Wash ski P270 Do not ea P272 Contamin the workplace. P273 Avoid rele P280 Wear pro face protection. Response: P301 + P312 + CENTER/ docto P301 + P330 + induce vomiting P303 + P361 + all contaminate P304 + P340 + and keep comfe CENTER/ docto P305 + P351 + water for severs and easy to do. CENTER/ docto P314 Get medi P333 + P313 If attention. P363 Wash cor Storage: P405 Store locl Disposal: P501 Dispose of	 P330 IF SWALLOWED: Call a POISON or if you feel unwell. Rinse mouth. P331 IF SWALLOWED: Rinse mouth. Do NO g. P353 IF ON SKIN (or hair): Take off immediated d clothing. Rinse skin with water/ shower. P310 IF INHALED: Remove person to fresh a portable for breathing. Immediately call a POISO or. P338 + P310 IF IN EYES: Rinse cautiously with al minutes. Remove contact lenses, if present Continue rinsing. Immediately call a POISON or. cal advice/ attention if you feel unwell. skin irritation or rash occurs: Get medical advi- intaminated clothing before reuse.

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature

: Amines

Hazardous components

Chemical name	CAS-No.	Concentration (% w/w)
aluminium	7429-90-5	30 - 50
m-phenylenebis(methylamine)	1477-55-0	10 - 20

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	aldehyde, polymer wit ogenated	h benzenamine,	135108-88-2	Print Date 09/13/2023 5 - 10
4,4'-n	nethylenebis(cyclohex	ylamine)	1761-71-3	5 - 10
,	1,3-Benzenedimethanamine, reaction products with epichlorohydrin		135470-04-1	5 - 10
Trieth	nylenetetramine, propo	oxylated	26950-63-0	5 - 10
2,2',2	"-nitrilotriethanol		102-71-6	1 - 5
trienti	ine		112-24-3	1 - 5

The specific chemical identity and/or exact percentage (concentration) of composition may be withheld as a trade secret.

SECTION 4. 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.	
If inhaled	Consult a physician after significant exposure. If inhaled, remove to fresh air. Get medical attention if symptoms occur.	
In case of skin contact	Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with difficulty. If on skin, rinse well with water. If on clothes, remove clothes.	
In case of eye contact	Small amounts splashed into eyes can cause irreversible tissue damage and blindness. In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Continue rinsing eyes during transport to hospital. Remove contact lenses. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.	/
If swallowed	Keep respiratory tract clear. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. Take victim immediately to hospital.	
Most important symptoms	None known.	

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	effects, both acute and ayed		Print Date 09/13/2023
delayed Protection of first-aiders		and use the rec If potential for ex personal protect Avoid inhalation No action shall I suitable training	, ingestion and contact with skin and eyes. be taken involving any personal risk or without erous to the person providing aid to give
Note	es to physician	: Treat symptoma	atically.

SECTION 5. FIREFIGHTING MEASURES

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
Specific hazards during firefighting	:	Do not allow run-off from fire fighting to enter drains or water courses.
Hazardous combustion products	:	Metal oxides Carbon oxides Nitrogen oxides (NOx) Formaldehyde
Specific extinguishing methods	:	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Further information	:	Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
Special protective equipment for firefighters	:	Wear self-contained breathing apparatus for firefighting if necessary.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	:	Use personal protective equipment. Ensure adequate ventilation. Refer to protective measures listed in sections 7 and 8.
Environmental precautions	:	Prevent product from entering drains. Prevent further leakage or spillage if safe to do so.

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				If the product con respective author	Print Date 09/13/2023 taminates rivers and lakes or drains inform ities.
Methods and materials for containment and cleaning up		:	acid binder, unive	t absorbent material (e.g. sand, silica gel, ersal binder, sawdust). closed containers for disposal.	

SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion	:	Normal measures for preventive fire protection.
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. Avoid formation of aerosol. 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. Provide sufficient air exchange and/or exhaust in work rooms. To avoid spills during handling keep bottle on a metal tray. Dispose of rinse water in accordance with local and national regulations.
Conditions for safe storage	:	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.
Materials to avoid	:	For incompatible materials please refer to Section 10 of this SDS.
Further information on storage stability	:	Stable under normal conditions.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
aluminium	7429-90-5	TWA (total dust)	15 mg/m3 (Aluminium)	OSHA Z-1



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rsion		SDS Number: 400000013118		t issue: 07/27/2022 t issue: 07/27/2022			
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			TWA (respirable fraction)	5 mg/m3 (Aluminium)	OSHA Z-1		
			TWA (Respirable particulate matter)	1 mg/m3 (Aluminium)	ACGIH		
			TWA (Respirable)	5 mg/m3	NIOSH REL		
			TWA (total)	10 mg/m3	NIOSH REL		
			TWA (Total dust)	15 mg/m3 (Aluminium)	OSHA P0		
			TWA (respirable dust fraction)	5 mg/m3 (Aluminium)	OSHA P0		
m-phe	enylenebis(methylamine)	1477-55-0	С	0.018 ppm	ACGIH		
			С	0.1 mg/m3	NIOSH REL		
			С	0.1 mg/m3	OSHA P0		
2,2',2'	"-nitrilotriethanol	102-71-6	TWA	5 mg/m3	ACGIH		
	iratory protection	required.	f vapour formatic	ctive equipment no			
Hand	protection						
Rema	arks	approved sta chemical pro necessary. The suitabilit	ndard should be ducts if a risk ass	is gloves complying worn at all times v sessment indicates orkplace should be ective gloves.	when handling this is		
Еуе р	protection	Tightly fitting	: Eye wash bottle with pure water Tightly fitting safety goggles Wear face-shield and protective suit for abnormal processing problems.				
Skin a	and body protection		protection accor	rding to the amoun is substance at the			
Hygie	ne measures	When using	do not eat or drin do not smoke. before breaks ar	k. nd at the end of wo	vrkdav		

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

: paste

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	Colour		:	grey		
	Odour		:	No data is availal	ole on the product itsel	f.
	Odour 7	Fhreshold	:	No data is availal	ole on the product itsel	f.
	рН		:	No data is availal	ole on the product itsel	f.
	Melting	point/freezing point	:	No data is availal	ole on the product itsel	f.
	Boiling	point	:	No data is availal	ole on the product itsel	f.
	Flash p	oint	:	> 212 °F / > 100	°C	
	Evapora	ation rate	:	No data is availal	ole on the product itsel	f.
	Flamma	ability (solid, gas)	:	No data is availal	ole on the product itsel	f.
	Flamma	ability (liquids)	:	No data is availal	ole on the product itsel	f.
		explosion limit / Upper bility limit	:	No data is availal	ole on the product itsel	f.
	Lower explosion limit / Lower flammability limit		:	No data is availal	ole on the product itsel	f.
	Vapour	pressure	:	No data is availal	ole on the product itsel	f.
	Relative	e vapour density	:	No data is availal	ole on the product itsel	f.
	Relative	e density	:	No data is availal	ole on the product itsel	f.
	Density		:	1.38 - 1.46 g/cm3	3	
	Solubili Wate	ty(ies) er solubility	:	No data is availal	ole on the product itsel	f.
	Solut	oility in other solvents	:	No data is availal	ole on the product itsel	f.
	Partition octanol	n coefficient: n-	:	No data is availal	ole on the product itsel	f.
		nition temperature	:	No data is availal	ole on the product itsel	f.
	Decom	position temperature	:	No data is availal	ole on the product itsel	f.
		celerating position temperature	:	No data is availal	ole on the product itsel	f.
	Viscosit	ty	:	No data is availal	ole on the product itsel	f.
	Explosi	ve properties	:	No data is availal	ole on the product itsel	f.
	Oxidizir	ng properties	:	No data is availal	ole on the product itsel	f.



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ARALDITE® 2035 B US Version Revision Date: SDS Number: Date of last issue: 07/27/2022 09/22/2022 40000013118 1.1 Date of first issue: 07/27/2022 Print Date 09/13/2023 Particle size : No data is available on the product itself. SECTION 10. STABILITY AND REACTIVITY Reactivity No dangerous reaction known under conditions of normal use. : Chemical stability Stable under normal conditions. : Possibility of hazardous No hazards to be specially mentioned. : reactions Conditions to avoid None known. : Incompatible materials : None known. Hazardous decomposition : No decomposition if stored and applied as directed. products Hazardous decomposition : aluminium oxide products carbon monoxide carbon dioxide Nitrogen oxides (NOx) ammonia, anhydrous Aldehydes Ketones

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity		
Product:		
Acute oral toxicity	:	Acute toxicity estimate: 1,521 mg/kg Method: Calculation method
Acute inhalation toxicity	:	Acute toxicity estimate: 8.54 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: Calculation method
Acute dermal toxicity	:	Acute toxicity estimate: > 5,000 mg/kg Method: Calculation method
Components:		
m-phenylenebis(methylami	ne):	
Acute oral toxicity	:	LD50 (Rat, male and female): 930 mg/kg Method: OECD Test Guideline 401
Acute inhalation toxicity	:	LC50 (Rat, male and female): ca. 1.34 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403 GLP: yes

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		Assessmen	Print Date 09/13/2023 t: Corrosive to the respiratory tract.
Acute	dermal toxicity	Method: Otl Symptoms:	male and female): > 3,100 mg/kg her guidelines Necrosis, Erythema t: The substance or mixture has no acute dermal
Form	aldehyde, polymer w	vith benzenamine,	hydrogenated:
Acute	oral toxicity		Rat, female): 300 mg/kg CD Test Guideline 423
Acute	dermal toxicity		al (Rabbit, male and female): > 1,000 mg/kg her guidelines
		Assessmen toxicity	t: The substance or mixture has no acute dermal
4,4'-n	nethylenebis(cycloho	exylamine):	
	oral toxicity	: LD50 Oral:	625 mg/kg
Acute inhalation toxicity		: LC50 (Rat, Exposure til Test atmos	
Acute	dermal toxicity	: LD50 (Rabb	pit, male and female): 2,110 mg/kg
1.3-B	enzenedimethanami	ne, reaction produ	ucts with epichlorohydrin:
	oral toxicity	: LD50 (Rat,	male): 646 mg/kg t: The component/mixture is moderately toxic after
			female): 744 mg/kg t: The component/mixture is moderately toxic after stion.
Acute	inhalation toxicity		
			t: The component/mixture is moderately toxic after
Trieth	nylenetetramine, pro	poxylated:	
	oral toxicity	-	Rat): 4,500 mg/kg
Acute	dermal toxicity	: LD50 (Rat):	>= 2,150 mg/kg
2,2',2'	"-nitrilotriethanol:		
	oral toxicity		male and female): 6,400 mg/kg CD Test Guideline 401

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sion	Revision Date: 09/22/2022	SDS Number: 400000013118	Date of last issue: 07/27/2022 Date of first issue: 07/27/2022			
			Print Date 09/13/202			
Acute	inhalation toxicity	Exposure time: Test atmosphe				
Acute	dermal toxicity	: LD50 (Rabbit, I	male and female): > 5,000 mg/kg			
trient	ine:					
Acute	oral toxicity	Method: OECD	le and female): 1,716.2 mg/kg) Test Guideline 401 he component/mixture is moderately toxic after າ.			
Acute	dermal toxicity	Method: OECD	male and female): 1,465.4 mg/kg) Test Guideline 402 he component/mixture is moderately toxic after with skin.			
Skin d	corrosion/irritation					
Comp	oonents:					
m-ph	enylenebis(methylan	nine):				
Speci		: Rat				
	sment	: Causes burns.				
Metho Resul			Directive 67/548/EEC, Annex V, B.4. Corrosive after 3 minutes to 1 hour of exposure			
_						
	aldehyde, polymer w		-			
Speci Asses	es sment	: Corrosive, cate	numan epidermis (RhE) gory 1C - where responses occur after ween 1 hour and 4 hours and observations up			
Metho	od	: OECD Test Gu	iideline 435			
Resul		: Corrosive after	1 to 4 hours of exposure			
GLP		: yes				
4,4'-m	nethylenebis(cyclohe	xylamine):				
Speci	es	: Rabbit				
Resul	t	: Corrosive after	3 minutes to 1 hour of exposure			
1,3-B	enzenedimethanamir	e, reaction products	s with epichlorohydrin:			
Asses	sment	: Causes burns.				
Resul	t	: Causes burns.				
Trieth	ylenetetramine, prop	oxylated:				
Speci		: Rabbit				
Expos	sure time	: 72 h				
	. d	: OECD Test Gu	uideline 101			
Metho Resul		: Irritating to skir				



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2.2'.2	"-nitrilotriethanol:		Print Date 09/13/2023			
Speci		: Rabbit				
	ssment	: No skin irritatio				
Metho		: OECD Test Gu				
Resul	t	: No skin irritatio	n			
trient						
Speci			numan epidermis (RhE)			
Metho	ssment	: Causes burns. : OECD Test Gu	ideline 435			
Resul			3 minutes to 1 hour of exposure			
Speci		: Rabbit				
	sment	: Causes burns.				
Metho Resul		: OECD Test Gu				
Resu	l	. Conosive alter	3 minutes to 1 hour of exposure			
Serio	us eye damage/eye i	rritation				
	oonents:					
-	enylenebis(methylar	•				
Resul	t ssment		damage to eyes. damage to eyes.			
		vith benzenamine, hy	-			
Resul	t ssment		Risk of serious damage to eyes.Risk of serious damage to eyes.			
ASSES	Sillent	. Risk of senous	uanage to eyes.			
	ylenetetramine, pro	poxylated:				
Speci		: Rabbit				
Resul		: Eye irritation	2			
Asses	ssment	: Irritating to eye	5.			
	"-nitrilotriethanol:					
Speci		: Rabbit				
Resul	t ssment	: Normally revers : No eye irritation				
Metho		: OECD Test Gu				
trient	ine [.]					
Speci		: Rabbit				
Resul		: Irreversible effe	ects on the eye			
	sment	: Risk of serious	damage to eyes.			
Metho	od	: OECD Test Gu				
Resp	iratory or skin sensit	lisation				
-	iratory or skin sensit ponents:	lisation				
<u>Comp</u> m-ph	-					



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On a sia	_		Print Date 09/13/20				
Species Assessment		: Mouse : Probability or evic rate in humans	ence of low to moderate skin sensitisation				
Methoo Result		: OECD Test Guide : Probability or evic rate in humans	eline 429 lence of low to moderate skin sensitisation				
GLP		: yes					
Assess	sment	and eye damage.	: Harmful if swallowed or if inhaled., Causes severe skin burns and eye damage., Corrosive to the respiratory tract. May cause an allergic skin reaction.				
Forma	ıldehyde, polymer v	vith benzenamine, hydro	ogenated:				
Test T	уре	: Buehler Test					
	ure routes	: Skin					
Specie		: Guinea pig					
Assess			lence of skin sensitisation in humans				
Metho		: OECD Test Guide					
Result		·	isation by skin contact.				
Assess	sment		: Causes severe skin burns and eye damage. May cause sensitisation by skin contact.				
4,4'-m	ethylenebis(cycloh	exylamine):					
Expos	ure routes	: Skin					
Specie		: Guinea pig					
Metho		: OECD Test Guide					
Result : May cause sensitisation by skin contact.							
		ne, reaction products w	ith epichlorohydrin:				
Test T	уре	ne, reaction products w : Maximisation Tes					
Test T Exposi	ype ure routes	: Maximisation Tes : Intradermal					
Test T Exposi Specie	ype ure routes es	: Maximisation Tes : Intradermal : Guinea pig	t				
Test T Exposi	ype ure routes es	: Maximisation Tes : Intradermal : Guinea pig : Probability or evic					
Test T Exposi Specie	ype ure routes es sment	 Maximisation Tes Intradermal Guinea pig Probability or evic rate in humans 	t				
Test T Expose Specie Assess Result	ype ure routes es sment	 Maximisation Tes Intradermal Guinea pig Probability or evic rate in humans Probability or evic rate in humans 	t lence of low to moderate skin sensitisation				
Test T Expose Specie Assess Result Trieth	ype ure routes es sment	 Maximisation Tes Intradermal Guinea pig Probability or evic rate in humans Probability or evic rate in humans 	t lence of low to moderate skin sensitisation				
Test T Expose Specie Assess Result Trieth	ype ure routes ss sment ylenetetramine, pro ure routes	 Maximisation Tes Intradermal Guinea pig Probability or evid rate in humans Probability or evid rate in humans Probability or evid Skin OECD Test Guide 	t lence of low to moderate skin sensitisation lence of low to moderate skin sensitisation				
Test T Exposi Specie Assess Result Triethy Exposi	ype ure routes ss sment ylenetetramine, pro ure routes d	 Maximisation Tes Intradermal Guinea pig Probability or evid rate in humans Probability or evid rate in humans Probability or evid Skin OECD Test Guide 	t lence of low to moderate skin sensitisation lence of low to moderate skin sensitisation				
Test T Exposi Specie Assess Result Triethy Exposi Method Result	ype ure routes ss sment ylenetetramine, pro ure routes d	 Maximisation Tes Intradermal Guinea pig Probability or evid rate in humans Probability or evid rate in humans Probability or evid Skin OECD Test Guide Probability or evid 	t lence of low to moderate skin sensitisation lence of low to moderate skin sensitisation				
Test T Expose Specie Assess Result Triethy Expose Method Result 2,2',2"	ype ure routes ss sment ylenetetramine, pro ure routes d -nitrilotriethanol:	 Maximisation Tes Intradermal Guinea pig Probability or evid rate in humans Probability or evid rate in humans Probability or evid Skin OECD Test Guide Probability or evid 	t lence of low to moderate skin sensitisation lence of low to moderate skin sensitisation				
Test T Expose Specie Assess Result Triethy Expose Method Result 2,2',2"	ype ure routes es sment ylenetetramine, pro ure routes d -nitrilotriethanol: ure routes	 Maximisation Tes Intradermal Guinea pig Probability or evid rate in humans Probability or evid rate in humans Probability or evid rate in humans poxylated: Skin OECD Test Guide Probability or evid rate in humans 	t lence of low to moderate skin sensitisation lence of low to moderate skin sensitisation				
Test T Expose Specie Assess Result Triethy Expose Method Result 2,2',2" Expose Specie Method	ype ure routes es sment ylenetetramine, pro ure routes d -nitrilotriethanol: ure routes es	 Maximisation Tes Intradermal Guinea pig Probability or evid rate in humans Probability or evid rate in humans Probability or evid rate in humans poxylated: Skin OECD Test Guide Probability or evid rate in humans 	t lence of low to moderate skin sensitisation lence of low to moderate skin sensitisation eline 429 lence of low to moderate skin sensitisation				
Test T Expose Specie Assess Result Triethy Expose Method Result 2,2',2" Expose Specie	ype ure routes es sment ylenetetramine, pro ure routes d -nitrilotriethanol: ure routes es	 Maximisation Tes Intradermal Guinea pig Probability or evid rate in humans Probability or evid rate in humans Probability or evid rate in humans poxylated: Skin OECD Test Guide Probability or evid rate in humans 	t lence of low to moderate skin sensitisation lence of low to moderate skin sensitisation eline 429 lence of low to moderate skin sensitisation				
Test T Expose Specie Assess Result Triethy Expose Method Result 2,2',2" Expose Specie Method	ype ure routes es sment ylenetetramine, pro ure routes d -nitrilotriethanol: ure routes es d	 Maximisation Tes Intradermal Guinea pig Probability or evid rate in humans Probability or evid rate in humans Probability or evid rate in humans poxylated: Skin OECD Test Guide Probability or evid rate in humans 	t lence of low to moderate skin sensitisation lence of low to moderate skin sensitisation eline 429 lence of low to moderate skin sensitisation				



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/ersion 1.1	Revision Date: 09/22/2022	SDS Number: 400000013118	Date of last issue: 07/27/2022 Date of first issue: 07/27/2022
Species Assessment Method Result		: OECD Test Gui	Print Date 09/13/2023 vidence of skin sensitisation in humans ideline 406 vidence of skin sensitisation in humans
Germ	cell mutagenicity		
<u>Com</u>	<u>oonents:</u>		
m-ph	enylenebis(methylan	nine):	
Geno	toxicity in vitro	Metabolic activa	almonella typhimurium ation: with and without metabolic activation Test Guideline 471
		Test system: Cl Metabolic activa	omosome aberration test in vitro hinese hamster ovary cells ation: with and without metabolic activation Test Guideline 473
		Test system: m Metabolic activa	tro mammalian cell gene mutation test ouse lymphoma cells ation: with and without metabolic activation Test Guideline 476
Geno	toxicity in vivo	Species: Mouse Cell type: Bone Application Rou Exposure time: Dose: 750 mg/k	ite: Oral single dose ig body weight Test Guideline 474
	cell mutagenicity - ssment		ial or mammalian cell cultures did not show cts., Animal testing did not show any mutagenic
Form	aldehvde, polymer w	ith benzenamine, hyd	drogenated:
	toxicity in vitro	: Test Type: Chro Test system: Cl Metabolic activa	pmosome aberration test in vitro ninese hamster lung cells ation: with and without metabolic activation Test Guideline 473
			es test almonella tryphimurium and E. coli ation: with and without metabolic activation

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		Method: OE0 Result: nega GLP: yes	Print Date 09/13/202 CD Test Guideline 471 tive
		Test Type: Ir Test system: Metabolic ac	n vitro mammalian cell gene mutation test : mouse lymphoma cells :tivation: with and without metabolic activation CD Test Guideline 476 tive
	cell mutagenicity -	: In vitro tests	did not show mutagenic effects
4.4'-n	nethylenebis(cyclohe	xvlamine):	
	toxicity in vitro	: Metabolic ac	tivation: with and without metabolic activation CD Test Guideline 471 tive
			tivation: with and without metabolic activation CD Test Guideline 473 tive
			ctivation: with and without metabolic activation CD Test Guideline 476 tive
Geno	toxicity in vivo	Dose: 50 mg	Route: Intraperitoneal injection j/kg CD Test Guideline 474
1,3-B	enzenedimethanamiı	ne, reaction produ	cts with epichlorohydrin:
	toxicity in vitro	-	: Salmonella typhimurium
Geno	toxicity in vivo		/icronucleus test CD Test Guideline 473 tive
Trieth	ylenetetramine, proj	ooxylated:	
Geno	toxicity in vitro	Test system:	n vitro mammalian cell gene mutation test : Chinese hamster ovary cells CD Test Guideline 476 tive
			: Salmonella typhimurium CD Test Guideline 471
			Chromosome aberration test in vitro : Chinese hamster ovary cells

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rsion	Revision Date: 09/22/2022	SDS Number:Date of last issue: 07/27/2022400000013118Date of first issue: 07/27/2022
		Print Date 09/13/202 Method: OECD Test Guideline 473 Result: negative
Germ Asses	cell mutagenicity - sment	: Tests on bacterial or mammalian cell cultures did not show mutagenic effects.
2,2',2"	-nitrilotriethanol:	
Genotoxicity in vitro		 Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471 Result: negative
		Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 473 Result: negative
		Concentration: 0 - 1500 µg/L Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 476 Result: negative
trienti	ne:	
Genote	oxicity in vitro	: Test Type: reverse mutation assay Test system: Salmonella tryphimurium and E. coli Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471 Result: positive GLP: yes
		Test Type: Micronucleus test Test system: Human lymphocytes Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 487 Result: negative
Genote	oxicity in vivo	 Test Type: In vivo micronucleus test Species: Mouse (male and female) Cell type: Bone marrow Application Route: Intraperitoneal injection Dose: 0 - 600 mg/kg Method: OECD Test Guideline 474 Result: negative
Carcir	nogenicity	
<u>Comp</u>	onents:	
Specie Applica Expos Dose	ation Route ure time ency of Treatment d	 Rat, male and female Dermal 103 weeks 250 mg/kg 5 daily OECD Test Guideline 451 negative

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trient	ine:				Print Date 09/13/2023
Speci	es cation Route EL od	9		Mouse, male Dermal >= 50 mg/kg bw/d OECD Test Guide negative	
	cation Route sure time EL od	•		Mouse, male Dermal 104 weeks >= 20 mg/kg bw/d OECD Test Guide negative	
IARC					nt at levels greater than or equal to 0.1% is onfirmed human carcinogen by IARC.
OSH/				this product preser regulated carcinog	nt at levels greater than or equal to 0.1% is ens.
NTP					nt at levels greater than or equal to 0.1% is carcinogen by NTP.
m-ph Effect	s on fertility	(methylamin	ie): :	Test Species: Rat, mal Application Route Dose: 0, 50, 150 a General Toxicity - General Toxicity F Method: OECD Te Result: No effects development were GLP: yes	: Oral and 450 mg/kg Parent: NOEL: 50 - 150 mg/kg body weight 51: NOEL: 450 mg/kg body weight est Guideline 421 on fertility and early embryonic e detected.
	s on foetal opment		:	Duration of Single Frequency of Trea General Toxicity M Developmental To Method: OECD To	ale bawley : Oral 300 mg/kg milligram per kilogram - Treatment: 15 d atment: 1 daily Maternal: NOAEL: 100 mg/kg body weight bxicity: NOAEL: 300 mg/kg body weight est Guideline 414 o n fertility and early embryonic
•	oductive toxi ssment	icity -	:	No evidence of ac	lverse effects on sexual function and fertility, it, based on animal experiments.



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Form	aldehyde, polymer w	ith benzenamine, hy	Print Date 09/13/2023 drogenated:
Effect	ts on fertility	Species: Rat, m Application Rou Dose: 0, 70, 14 Frequency of T General Toxicit General Toxicit Method: OECD	oductive and developmental toxicity study nale and female ute: Oral 0 and 280 mg/kg reatment: 7 days/week y - Parent: NOAEL: 280 mg/kg body weight y F1: NOAEL: > 280 mg/kg body weight Test Guideline 421 testing did not show any effects on fertility.
	ts on foetal opment	Duration of Sing Frequency of T General Toxicit Developmental	emales ute: Oral /280 milligram per kilogram gle Treatment: 15 d reatment: 7 days/week y Maternal: NOAEL: > 280 mg/kg body weight Toxicity: NOAEL: > 280 mg/kg body weight Test Guideline 414
•	oductive toxicity - ssment		adverse effects on sexual function and fertility, ent, based on animal experiments.
4,4'-n	nethylenebis(cyclohe	exylamine):	
Effect	ts on fertility	: Species: Rat, m Application Rou Method: OECD Result: positive	ute: Oral Test Guideline 422
Triet	nylenetetramine, prop	ooxylated:	
Effect	ts on fertility	Strain: wistar Application Rou Dose: 100, 300 General Toxicit weight General Toxicit	nale and female
	ts on foetal opment	General Toxicit weight Developmental weight	

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rsion	Revision Date: 09/22/2022	SDS Number: 400000013118	Date of last issue: 07/27/2022 Date of first issue: 07/27/2022
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	ductive toxicity - sment		adverse effects on sexual function and fertility, ent, based on animal experiments.
2,2',2'	"-nitrilotriethanol:		
Effect	s on fertility		te: Oral Test Guideline 416 ts on fertility and early embryonic
Effects on foetal development		weight	te: Oral Maternal: NOAEL: > 1,000 mg/kg body Test Guideline 421
			^y Maternal: NOAEL: 75 mg/kg body weight Test Guideline 414
			^y Maternal: NOAEL: 10 mg/kg body weight Test Guideline 414
trient	ine:		
Effects on foetal development		Duration of Sing General Toxicity Developmental	te: Oral 50 mg/kg bw/day le Treatment: 10 d ^r Maternal: NOAEL: >= 750 mg/kg body weigh Toxicity: NOAEL: >= 750 mg/kg body weight Test Guideline 414
		General Toxicity Developmental	te: Dermal mg/kg bw/day le Treatment: 13 d ^y Maternal: NOAEL: 50 mg/kg body weight Toxicity: NOAEL: >= 125 mg/kg body weight Test Guideline 414

No data available



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KALD	DITE® 2035 B L	5	
sion	Revision Date: 09/22/2022	SDS Number: 400000013118	Date of last issue: 07/27/2022 Date of first issue: 07/27/2022
			Print Date 09/13/2023
STOT	- repeated exposur	9	
Comp	<u>oonents:</u>		
Form	aldehyde, polymer v	vith benzenamine, h	ydrogenated:
	sure routes	: Ingestion	onle on Ashenel along
-	et Organs ssment	: The substance	spleen, Adrenal gland e or mixture is classified as specific target organ ated exposure, category 2.
4,4'-m	nethylenebis(cycloh	exylamine):	
	sure routes	: Ingestion	
	et Organs	: Liver	o or mixture is clossified as aposific target argon
Asses	ssment		e or mixture is classified as specific target organ ated exposure, category 2.
Trieth	ylenetetramine, pro	poxylated:	
Expos	sure routes	: Ingestion	
	et Organs	: Kidney	
Asses	ssment	: No significant 300mg/kg bw/	health effects observed at a concentration of day.
Repe	ated dose toxicity		
<u>Comp</u>	oonents:		
m-ph	enylenebis(methylaı	nine):	
Speci		: Rat, male and	female
NOEL	- cation Route	: 150 mg/kg	
	sure time	: oral (gavage) : 28 d	
	per of exposures	: 7 days/week	
Dose	·	: 0, 10, 40, 150	and 600 mg/kg/d
Metho GLP	od	: OECD Test G : yes	uideline 407
-		,	
Speci		: Rat, male and	female
NOE(cation Route	: 0.6 mg/m3 : Inhalation	
	sure time	: 13 weeks 6 h	
	per of exposures	: 5 days/week	
Dose	·	: 0, 0.64, 5.1, 3	
Metho	bd	: OECD Test G	uideline 413
GLP Targe	et Organs	: yes : Lungs	
Rene	ated dose toxicity -	· Harmful if swa	Illowed or if inhaled., Causes severe skin burns
	ssment	and eye dama	age., Corrosive to the respiratory tract. fect has been observed in chronic toxicity tests.
Form	aldehyde, polymer v	vith benzenamine, h	ydrogenated:
Speci		: Rat, male and	female
NOAE		: 15 mg/kg	
	cation Route sure time	: oral (gavage) : 28 d	
LYDS		. ∠ou	

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Dose Metho GLP	per of exposures od t Organs	: once daily : 15, 150 and 3 : OECD Test G : yes : Kidney, Liver,	
-	ssment	: The substance	e or mixture is classified as specific target organ ated exposure, category 2.
•	ated dose toxicity - ssment	: Causes sever	re skin burns and eye damage.
4,4'-m	nethylenebis(cycloh	exylamine):	
Speci	es	: Rat, male and	d female
NOEC		: 15 mg/kg, 12	.2 mg/m3
Applic	cation Route	: Ingestion	-
	atmosphere	: dust/mist	
	sure time	: 864 h	
	er of exposures	: 7 d	
Metho	bd	: OECD Test G	Suideline 413
Trieth	ylenetetramine, pro	poxylated:	
Speci		: Rat, male and	d female
NOAE		: 300 mg/kg	
	ation Route	: Ingestion	
	sure time	: 43 - 44 Days	
Metho	ba	: OECD Test G	
2,2',2'	"-nitrilotriethanol:		
Speci		: Rat, male and	d female
NOEC		: 500 mg/m3	
	cation Route	: Inhalation	
	atmosphere	: dust/mist : 28 d	
Metho	sure time	: OECD Test G	Suideline 412
	t Organs	: Respiratory T	
i di go	e organo		
Speci		: Rat, male and	d female
NOEC		: 420 mg/m3	
	cation Route	: Inhalation	
	atmosphere	: dust/mist	
	sure time per of exposures	: 5 d : 6 h/d	
Metho		: Subacute tox	icity
Speci	es	: Rat, male and	d female
NOAE	EL	: 1000 mg/kg, s	500 mg/m3
	cation Route	: Ingestion	
	sure time	: 91 d	
Metho	bd	: OECD Test G	Guideline 408
Speci		: Rat, male and	
NOAE		: 125 - 500 mg	/kg
	cation Route	: Skin contact	
Expos	sure time	: 90 d	

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Meth	ber of exposures od et Organs	: 5 d/w : OECD Test Gu : Kidney	Print Date 09/13/2023 ideline 411
Expo Num Dose Meth	ies EL cation Route sure time ber of exposures od et Organs	 Rat, male and f 350 mg/kg Oral 28 d 7 d 100/350/1000 r OECD Test Gu Lungs Information give substances. 	ng/kg bw/day
	EL cation Route et Organs	 Dog, male and 125 mg/kg Oral Lungs Information give substances. 	female en is based on data obtained from similar
Spec NOA Appli Meth Rem	EL cation Route od	 Dog, male and 50 mg/kg Oral Subchronic tox Information give substances. 	
Expo Dose Meth	EL cation Route sure time od et Organs	 Rat, male and f 50 mg/kg Oral 26 weeks 50/175/600 mg OECD Test Gu Lungs Information given substances. 	/kg bw/day
	EL cation Route sure time od	 Mouse, male a 92 mg/kg, 600 Oral 120/600/3000 p OECD Test Gu Information give substances. 	ppm opm

Aspiration toxicity

No data available

Experience with human exposure

No data available



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Toxicology, Metabolism, Distribution

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No data available							
Neurological effects							
No data available							
Further information							
No data available							
CTION 12. ECOLOGICAL INFO	RMATION						
Ecotoxicity							
Components:							
m-phenylenebis(methylamin	e):						
Toxicity to fish	 LC50 (Oryzias latipes (Orange-red killifish)): 87.6 mg/l End point: mortality Exposure time: 96 h Test Type: semi-static test Test substance: Fresh water Method: OECD Test Guideline 203 GLP: yes 						
Toxicity to daphnia and other aquatic invertebrates	 EC50 (Daphnia magna (Water flea)): 15.2 mg/l End point: Immobilization Exposure time: 48 h Test Type: static test Analytical monitoring: yes Test substance: Fresh water Method: OECD Test Guideline 202 GLP: yes 						
Toxicity to algae/aquatic plants	: ErC50 (Selenastrum capricornutum (green algae)): 32.1 mg/l Exposure time: 72 h Test Type: static test Analytical monitoring: yes Test substance: Fresh water Method: OECD Test Guideline 201 GLP: yes						
	NOEC (Selenastrum capricornutum (green algae)): 10.5 mg/l Exposure time: 72 h Test Type: static test Analytical monitoring: yes Test substance: Fresh water Method: OECD Test Guideline 201 GLP: yes						
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	 NOEC (Daphnia magna (Water flea)): 4.7 mg/l Exposure time: 21 d Test Type: semi-static test Analytical monitoring: yes Test substance: Fresh water Method: OECD Test Guideline 211 GLP: yes 						

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Vers 1.1	sion	Revision Date: 09/22/2022		0S Number: 0000013118	Date of last issue: 07 Date of first issue: 07	
	Toxicity	y to microorganisms	:	EC50 (activated s Exposure time: 0. Test Type: static t Analytical monitor Test substance: F Method: OECD To GLP: yes	est ing: no resh water	Print Date 09/13/2023
	Forma	ldehyde, polymer witl	h be	enzenamine, hydro	ogenated:	
	Toxicity	y to fish	:	LC50 (Poecilia ret End point: mortali Exposure time: 96 Test Type: static t Analytical monitor Test substance: F Method: OECD Te GLP: yes	h est ing: yes resh water	g/l
		y to daphnia and other invertebrates	:	LC50 (Daphnia m End point: Immob Exposure time: 48 Test Type: static t Test substance: F Method: OECD Te GLP: yes	3 h est resh water	.4 mg/l
	Toxicity plants	y to algae/aquatic	:	Exposure time: 72 Test Type: static t Test substance: F	2 h est	een algae)): 43.94 mg/l /, C.3.
				Exposure time: 72 Test Type: static t Test substance: F	est	
				Exposure time: 72 Test Type: static t Test substance: F	est	
	Toxicity	y to microorganisms	:	Exposure time: 3 Test Type: static t Analytical monitor	est	′, C.11

Ecotoxicology Assessment

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Chror	nic aquatic toxicity	: ⊦	larmful to aqua	Print Date 09/13/2023 tic life with long lasting effects.
	enzenedimethanamine	: L	.C50 (Leuciscus	s idus (Golden orfe)): 4 mg/l
		E	nd point: morta xposure time: 9 est substance:	96 h
Toxic	ity to microorganisms	: E	C10 (Pseudom	nonas putida): 0.23 mg/l
	oxicology Assessment			
Chror	nic aquatic toxicity	: 1	oxic to aquatic	life with long lasting effects.
	nylenetetramine, propo	-		
Toxic	ity to fish	n E	.C50 (Oncorhyr ng/l Exposure time: § Fest Type: semi	
		A	nalytical monite	
	ity to daphnia and other ic invertebrates	E T A	Exposure time: 4 est Type: static analytical monitor	c test
Toxic plants	ity to algae/aquatic	n E T A	ng/l Exposure time: T est Type: station analytical monitor	c test
		C E T A	0.11 mg/l Exposure time: Test Type: static Analytical monito	c test
Toxic	ity to microorganisms	E T T	xposure time: est Type: static est substance:	c test
2,2',2	"-nitrilotriethanol:			
Toxic	ity to fish	E T	C50 (Pimephal exposure time: s est Type: flow- est substance:	through test

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ersion .1	Revision Date: 09/22/2022		9S Number: 0000013118	Date of last issue: 07/27/2022 Date of first issue: 07/27/2022			
	Toxicity to daphnia and other aquatic invertebrates		Print Date 09/13 : EC50 (Ceriodaphnia dubia (Water flea)): 609.88 mg/l Exposure time: 48 h Test Type: static test Test substance: Fresh water				
Toxici plants	ty to algae/aquatic	:	ErC50 (Desmode Exposure time: 72 Test Type: static Test substance: F Method: DIN 384	est resh water			
aquati	ty to daphnia and other ic invertebrates nic toxicity)	:	NOEC (Daphnia r Exposure time: 2' Test Type: semi-s Test substance: F	static test			
Toxici	ty to microorganisms	:	EC50 (activated s Exposure time: 3 Test Type: static Test substance: F Method: OECD T	est resh water			
trienti	ine:						
Toxici	ty to fish	:	Exposure time: 96 Test Type: semi-s Test substance: F	static test			
			LC50 (Leuciscus Exposure time: 96	idus (Golden orfe)): 200 - 500 mg/l S h			
			LC50 (Pimephale End point: mortali Exposure time: 96 Test Type: static Test substance: F Method: Fish Acu	S h est resh water			
	ty to daphnia and other ic invertebrates	:	End point: Immob Exposure time: 48 Test Type: static Test substance: F	3 h est			
Toxici [;] plants	ty to algae/aquatic	:	ErC50 (Selenastr Exposure time: 72 Test Type: semi-s Test substance: F Method: OECD T	tatic test resh water			
			EC10 (Selenastru Exposure time: 72 Test Type: semi-s Test substance: F	static test			

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	ITE® 2035 B US			Enriching lives through innovation
ersion	Revision Date:		DS Number:	Date of last issue: 07/27/2022
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			Method: OECD T	Print Date 09/13/2023 est Guideline 201
aquati	ty to daphnia and other c invertebrates nic toxicity)	:	Exposure time: 2 Test Type: semi- Test substance: F	static test
Toxici	ty to microorganisms	:	NOEC (Bacteria): Exposure time: 28 Method: OECD T	
			EC50 (Bacteria): Exposure time: 28 Method: OECD T	
			EC50 (Bacteria): Exposure time: 2 Test Type: static Test substance: F	h test
			NOEC (Bacteria): Exposure time: 2 Test Type: static Test substance: F	h test
Toxici organi	ty to soil dwelling sms	:	Exposure time: 5	etida (earthworms)): ca. 62.5 mg/kg 6 d est Guideline 222
			Exposure time: 50	tida (earthworms)): > 1,000 mg/kg 6 d est Guideline 222
Ecoto	xicology Assessment			
			Harmful to aquati	c life with long lasting effects.
Persis	stence and degradabil	itv		
	onents:			
	enylenebis(methylami	ne):	:	
-	gradability	:	aerobic Inoculum: activate Concentration: 14 Result: Not readil Biodegradation: 4 Exposure time: 28	y biodegradable. 49 % 8 d est Guideline 301B
	aldehyde, polymer wit gradability	h bo :	enzenamine, hydr Inoculum: activate Concentration: 10	ed sludge

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ersion	Revision Date:		DS Number:	Date of last issue: 07/27/2022		
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			Result: Not biod Biodegradation: Exposure time: 2 Method: Other g	0 % 28 d		
Trieth	ylenetetramine, prop	oxyl	ated:			
Biodegradability		 Inoculum: Domestic sewage Concentration: 100 mg/l Result: Not readily biodegradable. Biodegradation: 4 % Exposure time: 28 d Method: OECD Test Guideline 301F 				
Stabil	ity in water	:		[:] life (DT50): > 1 yr (25 °C) pH: 4 Test Guideline 111		
				ilife (DT50): > 1 yr (25 °C) pH: 7 Test Guideline 111		
				[:] life (DT50): > 1 yr (25 °C) pH: 9 Test Guideline 111		
2,2',2'	"-nitrilotriethanol:					
Biode	gradability	:	Inoculum: activa Concentration: 5 Result: Readily Biodegradation: Exposure time: 5	5.7 mg/l biodegradable. ca. 100 %		
Chem (COD	iical Oxygen Demand)	:	1600 mgO2/g			
trient	ine:					
Biode	gradability	:	Biodegradation: Exposure time: Method: OECD Test substance: aerobic Inoculum: activa Dissolved organ Result: Not inhe Biodegradation: Exposure time: 8	ily biodegradable. 0 % 162 d Test Guideline 301D Fresh water ted sludge ic carbon (DOC) rently biodegradable. 20 % 34 d Test Guideline 302A		
Б.						
	cumulative potential					
Comp	ponents:					

m-phenylenebis(methylamine):

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rsion	Revision Date: 09/22/2022	SDS Number: 400000013118					
Partition coefficient: n- octanol/water		pH: 10.3 -	pH: 10.3 - 10.4 Method: OECD Test Guideline 107				
Form	aldehyde, polymer w	th benzenamine	e, hydrogenated:				
Bioac	cumulation	Bioconcen Exposure f Temperatu Method: O GLP: yes	Cyprinus carpio (Carp) tration factor (BCF): > 18 - < 219 time: 8 Weeks ire: 77 °F / 25 °C ECD Test Guideline 305C No bioaccumulation is to be expected (log Pow <=				
	on coefficient: n- ol/water	pH: 12.5	.68 (70 °F / 21 °C) artition coefficient				
4,4'-n	nethylenebis(cyclohe	xylamine):					
	on coefficient: n- ol/water		.03 (77 °F / 25 °C) ECD Test Guideline 107				
Trieth	ylenetetramine, prop	oxvlated:					
Partiti	on coefficient: n- ol/water	: log Pow: -2	2.42				
2,2',2'	"-nitrilotriethanol:						
	cumulation	Bioconcen Exposure t Test subst	Cyprinus carpio (Carp) tration factor (BCF): < 3.9 time: 42 d ance: Fresh water ow-through test				
	on coefficient: n- ol/water	: log Pow: -2 pH: 7.1	2.3 (77 °F / 25 °C)				
trient	ine:						
	on coefficient: n- ol/water	: log Pow: -2 Method: Q	2.08 - 2.90 (68 °F / 20 °C) SAR				
Mobil	lity in soil						
<u>Comp</u>	ponents:						
2,2',2'	"-nitrilotriethanol:						
	oution among onmental compartment	: Koc: 18 s					
trient	ine:						
Distrik	oution among	: Koc: 3162.	28, log Koc: 3.5				



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	environmental compartments		N	lethod: OECD To	est Guideline 106	Print Date 09/13/2023
	Other advo	erse effects				
	Product:					
	Ozone-Dep	bletion Potential	P S R U	rotection of Strat ubstances emarks: This pro nanufactured with	R Protection of Enviror ospheric Ozone - CAA oduct neither contains, a Class I or Class II O Section 602 (40 CFR	Section 602 Class I nor was DS as defined by the
	Additional of information	0	u	nprofessional ha	hazard cannot be exclundling or disposal. If with long lasting ef	
	Compone	nts:				
	Triethylen	etetramine, propo	xylate	ed:		
	Results of assessmer	PBT and vPvB		his substance is ioaccumulating a	not considered to be poind toxic (PBT).	ersistent,

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal	methods
----------	---------

Waste from residues	:	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

International Regulations

IATA-DGR UN/ID No. Proper shipping name	:	UN 2735 Amines, liquid, corrosive, n.o.s. (M-XYLYLENE DIAMINE, 4,4'- METHYLENEBISCYCLOHEXYLAMINE)
Class Packing group Labels Packing instruction (cargo aircraft)	::	8 II Corrosive 855
Packing instruction (passenger aircraft)	:	851

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IMDG-Code UN number Proper shipping name		(M-XYLYLEN	QUID, CORROSIVE, N.O.S. NE DIAMINE, 4,4'- EBISCYCLOHEXYLAMINE)
Class	s	: 8	
Pack	ing group	: II	

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

F-A, S-B

:

2

8

: no

Not applicable for product as supplied.

National Regulations

Labels

EmS Code

Marine pollutant

49 CFR UN/ID/NA number Proper shipping name	:	UN 2735 Amines, liquid, corrosive, n.o.s. (M-XYLYLENE DIAMINE, 4,4'- METHYLENEBISCYCLOHEXYLAMINE)
Class	:	8
Packing group	:	II
Labels	:	CORROSIVE
ERG Code	:	153
Marine pollutant	:	no

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.

SECTION 15. REGULATORY INFORMATION

CERCLA Reportable Quantity

Listed substances in the product are at low enough levels to not be expected to exceed the RQ

SARA 311/312 Hazards	 Acute toxicity (any route of exposure) Respiratory or skin sensitisation Specific target organ toxicity (single or repeated exposure) Skin corrosion or irritation Serious eye damage or eye irritation
SARA 313	This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

This product does not contain any hazardous air pollutants (HAP) >=0.1%, as defined by the U.S. Clean Air Act Section 112 (40 CFR 61



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California Prop. 65

Print Date 09/13/2023

WARNING: This product can expose you to chemicals including 2,2'-iminodiethanol, 4,4'methylenedianiline, which is/are known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

The components of this product are reported in the following inventories:				
DSL	: This product contains one or several components listed in the Canadian NDSL.			
AIIC	: All components are listed on the inventory, regulatory obligations/restrictions apply			
NZIoC	: Not in compliance with the inventory			
ENCS	: On the inventory, or in compliance with the inventory			
KECI	: Not in compliance with the inventory			
PICCS	: Not 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 listed as active on the TSCA inventory			

Inventories

AIIC (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIOC (New Zealand), PICCS (Philippines), TCSI (Taiwan), TECI (Thailand), TSCA (USA)

TSCA - 5(a) Significant New Use Rule List of Chemicals

No substances are subject to a Significant New Use Rule.

US. Toxic Substances Control Act (TSCA) Section 12(b) Export Notification (40 CFR 707, Subpt D)

No substances are subject to TSCA 12(b) export notification requirements.

HUNTSMAN

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ARALDITE® 2035 B US

Version	Revision Date:	
1.1	09/22/2022	

SDS Number: Da 400000013118 Da

Date of last issue: 07/27/2022 Date of first issue: 07/27/2022

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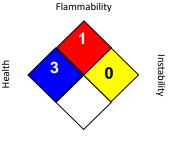
SECTION 16. OTHER INFORMATION

Further information



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Special hazard

HMIS® IV:



HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard

09/22/2022
USA. ACGIH Threshold Limit Values (TLV)
USA. NIOSH Recommended Exposure Limits
USA. Table Z-1-A Limits for Air Contaminants (1989 vacated values)
USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
8-hour, time-weighted average
Ceiling limit
Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek
Ceiling value not be exceeded at any time.
8-hour time weighted average
Ceiling limit
8-hour time weighted average

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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.

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.



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

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