

in accor	dance with 1907/2006/I	SAFETY DATA EC (REACH, as amended by 8		910.1200 and WF	IMIS 2015
Revision date:	26 April 2018	Initial date of issue:	21 March 2007	SDS No.	293A-9a
SECTION 1: IDE	NTIFICATION OF THE	SUBSTANCE/MIXTURE AN	D OF THE COMPANY	UNDERTAKING	
1.1. Product ide	ntifier				
ARC MX1 (Part A	()				
1.2. Relevant ide	ntified uses of the su	bstance or mixture and uses	advised against		
ARC Polymer Co coating.	mposite to be mixed wi	th ARC MX1 (Part B) and ARC	MX1 (Part C) to provid	e an abrasion and	l impact resistant
1.3. Details of th	e supplier of the safe	ty data sheet			
(Mon Fri. 8:30 - SDS requests: w E-mail (SDS ques	: 1834-1507, USA 6446 Fax: +1 978-46	@chesterton.com	lier:		
Unit 105, Burlingt EU: Chesterton Ir	nesterton Company Ltd. on, Ontario L7L 4X8 - 1 nternational GmbH, Am J, Germany – Tel. +49-8	Fel. 905-335-5055 Lenzenfleck 23,			
1.4. Emergency	telephone number				
Call Infotrac: 1-8	, 7 days per week 00-535-5053 ca: +1 352-323-3500 (collect)			
SECTION 2: HA	ZARDS IDENTIFICATI	ON			
2.1. Classificatio	on of the substance or	[·] mixture			
2.1.1. Classificat	ion according to Reg	ulation (EC) No 1272/2008 [C	LP]		
Eye Dam. 1, H31 Skin Irrit. 2, H315 Skin Sens. 1, H3 Aquatic Chronic 2	17				
2.1.2. Classificat	ion according to 29 C	FR 1910.1200 / WHMIS 2015			
Eye Dam. 1, H31 Skin Irrit. 2, H315 Repr. 2, H361f Skin Sens. 1, H3: Aquatic Chronic 2	17				
2.1.3. Classificat	tion according to WH	MIS 1988			
D2B: Toxic mater	ials causing other effec	ts			
2.1.4. Australian	statement of hazardo	ous nature			
Hazardous accor	ding to criteria of Safe \	Nork Australia.			
2.1.5. Additional	information				

2.2. Label elements					
2.2.1. Labelling according to	Regulation (E	C) No 1272	2/2008 [CLP]		
Hazard pictograms:			2		
Signal word:	Danger				
Hazard statements:	H318 H315 H317 H411	Causes s May caus	erious eye dama kin irritation. se an allergic skil aquatic life with lo	n reaction.	ts.
Precautionary statements:	P273 P280 P310 P302/352 P333/313 P305/351/338 P362/364	Wear pro Immediat IF ON SK If skin irrit IF IN EYE Ienses, if	(IN: Wash with p tation or rash oc	bthing and eye/f N CENTER or of lenty of soap an curs: Get medic usly with water f y to do. Continu	doctor/physician. d water. al advice/attention. or several minutes. Remove contact le rinsing.
Supplemental information:	None				
2.2.2. Labelling according to	29 CFR 1910.1	200 / WHN	AIS 2015		
Hazard pictograms:	\diamond	<u>}</u> > <			
Signal word:	Danger				
Hazard statements:	H318 H315 H361fd H317 H411	Causes s Suspecte May caus	erious eye dama kin irritation. d of damaging fe se an allergic ski aquatic life with lo	ertility. Suspecte n reaction.	d of damaging the unborn child. ts.
Precautionary statements:	P201 P273 P280 P305/351/338 P310 P302/352 P333/313 P308/313 P362/364	Avoid rele Wear pro IF IN EYE lenses, if Immediat IF ON SK If skin irrit IF expose	present and eas ely call a POISC (IN: Wash with p	onment. othing and eye/f usly with water f y to do. Continu N CENTER or o lenty of soap ar curs: Get medical ad	or several minutes. Remove contact e rinsing. doctor/physician. d water. al advice/attention. vice/attention.
Supplemental information:	None	raite on t	somanniated of	and wash	
2.3. Other hazards	NONE				
This products contains a block free diisocyanate and blocking (120°C [248°F]). The safety a	g agent vapors is nd health hazard o isocyanate coul	expected s are detai d be trace	during any heati led separately fo d within the coat	ng of this produ or Part A and Pa ing during curing	ve at room temperature. Generation of ct above its unblocking temperature rt B. During the curing process, g. The final cured material is considered t A, Part B and Part C.
SECTION 3: COMPOSITION	I/INFORMATION	ON INGR	EDIENTS		
3.2. Mixtures					
Hazardous Ingredients ¹	%	Wt.	CAS No./ EC No.	REACH Reg. No.	CLP/GHS Classification
Epoxy resin (number average weight <= 700)	molecular 35	-45	9003-36-5/ 500-006-8 28064-14-4	01-211945 4392-40	Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chronic 2, H411
Epoxy resin (number average weight <= 700)	molecular 20	0-30	25068-38-6 500-033-5	NA	Eye Irrit. 2, H319 Skin Irrit. 2, H315 Skin Sens. 1, H317

Skin Sens. 1, H317 Aquatic Chronic 2, H411

Date: 26 April 2	2018	Pro	duct: ARC MX1	(Part A)	SDS No. 293A-9a
Butanedioldiglyd		1-5	2425-79-8 219-371-7	01-211949 4060-45	Acute Tox. 4, H302/312/332 Eye Dam. 1, H318 Skin Irrit. 2, H315
4-Nonylphenol,	branched	0.5-0.7	84852-15-3 284-325-5	NA	Skin Sens. 1, H317 Aquatic Chronic 3, H412 Repr. 2, H361fd Acute Tox. 4, H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 Aquatic Acute 1, H400 (M-factor = 10) Aquatic Chronic 1, H410 (M-factor = 10)
Other ingredient Alkyl phenol blo	ts: cked polyisocyanate	15-30	Unknown	NA	Not classified
	* 1272/2008/EC, F * WHMIS 2015 * Safe Work Austra	EACH		0-KIIOW Law (CII. 40,	M.G.LO. 111F), California Proposition 65
	n of first aid measures				
Inhalation:					ntact physician immediately. Asthmatic hours. Extreme asthmatic reactions can
Skin contact:	Remove contaminated	l clothing. Was	sh clothing before	reuse. Wash skin	with soap and water. Consult physician.
Eye contact:	Flush eyes for at least	15 minutes w	ith large amounts	of water. Contact	physician if irritation persists.
Ingestion:	Do not induce vomiting	g. Contact phy	sician immediatel	у.	
4.2. Most impo	rtant symptoms and ef	fects, both ad	cute and delayed		
or mist can irrita reduced lung fur lower concentra may lead to broo (e.g., fever, chill usually reversib	te the respiratory tract c nction (breathing obstruc- tions with similar sympto- nchitis, bronchial spasm (s), has been reported. T le. Repeated overexpose	ausing runny r tion). Persons oms as well as and pulmonar hese sympton ure or a single	nose, sore throat, s with a pre-existin asthma attack or y oedema. Chem ns can be delayed large dose by inh	coughing, chest di Ig, nonspecific bron asthma-like sympt ical or hypersensiti I up to several hou alation (including b	as evidenced by rashes or hives. Vapors scomfort, shortness of breath and nchial hyperreactivity can respond to toms. Exposure to higher concentrations vity pneumonitis, with flu-like symptoms rs after exposure. These effects are preathing offgases generated during heat ortness of breath or asthmatic attack.

These symptoms can be immediate or delayed up to several hours after exposure. Extreme asthmatic reactions can be life threatening. Once sensitized, symptoms can occur upon exposure to dust, cold air or other irritants. Sensitization can be permanent. Chronic overexposure to diisocyanates has been reported to cause lung damage (including fibrosis, decrease in lung function) that may be permanent. (Note: Generation of free diisocyanate and blocking agent vapors is expected during any heating of this product above its unblocking temperature. The inhalation hazards in this section apply to the free diisocyanate and blocking agent vapors thus produced.)

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptoms.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media: Carbon Dioxide, dry chemical, foam or water fog

Unsuitable extinguishing media: High volume water jet

5.2. Special hazards arising from the substance or mixture

At temperatures greater than 177°C (350°F), carbon dioxide is released which can cause pressure build-up in closed containers which may forcibly rupture under extreme heat or when contents are mixed with water. During a fire, isocyanate vapours and other irritating, highly toxic gases may be generated by thermal decomposition or combustion. Exposure to heated diisocyanate can be extremely dangerous.

5.3. Advice for firefighters

Cool exposed containers with water. Recommend Firefighters wear self-contained breathing apparatus and complete fire service protective equipment.

Flammability Classification: -

HAZCHEM Emergency Action Code: 2 X

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Avoid skin contact. Utilize exposure controls and personal protection as specified in Section 8.

6.2. Environmental Precautions

Keep out of sewers, streams and waterways.

6.3. Methods and material for containment and cleaning up

Contain spill to a small area. Cover spill with absorbent material (e.g., sand, sawdust, etc.) and scoop up and transfer to a suitable container for disposal.

6.4. Reference to other sections

Refer to section 13 for disposal advice.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Avoid all direct contact. Avoid breathing vapors. Utilize exposure controls and personal protection as specified in Section 8. Warning properties (irritation of eyes, nose and throat or odor) are not adequate to prevent overexposure from inhalation. Keep container tightly closed when not in use. Remove contaminated clothing immediately. Wash clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Contaminated leather including shoes cannot be decontaminated and should be discarded.

Medical Surveillance: While health risks are reduced when using a blocked isocyanate, it is best practice to implement a proper protective equipment program supported by a medical surveillance program for workers using isocyanates (blocked or unblocked). All applicants who are assigned to an isocyanate work area should undergo a pre-placement medical evaluation. A history of eczema or respiratory allergies such as hay fever, are possible reasons for medical exclusion from isocyanate areas. Applicants who have a history of adult asthma should be restricted from work with isocyanates. Applicants with a history of prior isocyanate sensitization should be excluded from further work with isocyanates. A comprehensive annual medical surveillance program should be instituted for all employees who are potentially exposed to diisocyanates. Once a worker has been diagnosed as sensitized to any isocyanate, no further exposure can be permitted.

7.2. Conditions for safe storage, including any incompatibilities

Store in a cool, dry area (10°C to 32°C (50°F to 90°F), out of direct sunlight).

7.3. Specific end use(s)

No special precautions.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Occupational exposure limit values

Ingredients	OSH <i>A</i> ppm	A PEL ¹ mg/m ³	ACGI ppm	H TLV ² mg/m ³	UK ^v ppm	WEL ³ mg/m ³	AUSTR. ppm	ALIA ES⁴ mg/m ³
Epoxy resin (number average molecular weight <= 700)	-	-	-	-	-	-	-	-
Epoxy resin (number average molecular weight <= 700)	-	-	-	-	-	-	-	_
Butanedioldiglycidyl ether	_	_	_	_	_	_	_	_
4-Nonylphenol, branched	-	-	-	-	-	-	-	_
Alkyl phenol blocked polyisocyanate	-	-	-	-	-	-	-	_

¹ United States Occupational Health & Safety Administration permissible exposure limits.

² American Conference of Governmental Industrial Hygienists threshold limit values.

³ EH40 Workplace exposure limits, Health & Safety Executive

⁴ Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:1003].

8.2. Exposure controls

8.2.1. Engineering measures

Use adequate ventilation to keep airborne isocyanate and blocking agent levels below the exposure limits. Exhaust air (including curing oven offgases) may need to be cleaned by scrubbers or filters to reduce environmental contamination.

8.2.2. Individual protection measures

Respiratory protection:	If exposure limits are exceeded, use a self-contained breathing apparatus (SCBA), supplied air respirator (SAR) or air-purifying respirator (APR) with a suitable filter. If a fire or a process upset results in heating above 120°C (248°F), workers must wear positive pressure, air-supplied respirators since airborne TDI may be generated under these conditions.
Protective gloves:	Chemical resistant gloves (e.g., nitrile rubber, butyl rubber, neoprene, PVC)
Eye and face protection:	Safety glasses
Other:	Impervious clothing as necessary to prevent skin contact.
0.2.2 Environmental over	

8.2.3. Environmental exposure controls

Avoid release to the environment. Collect spillage. Refer to sections 6 and 12.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic phy	sical and chemical properties		
Physical state	paste	Odour	epoxy odor
Colour	blue	Odour threshold	not determined
Initial boiling point	not determined	Vapour pressure @ 20°C	not determined
Melting point	not determined	% Aromatics by weight	None
% Volatile (by volume)	none	рН	not applicable
Flash point	192°C (378°F)	Relative density	1.18 kg/l
Method	PM Closed Cup	Weight per volume	9.82 lbs/gal
Viscosity	1 million cps @ 25°C	Coefficient (water/oil)	< 1
Autoignition temperature	not determined	Vapour density (air=1)	> 1
Decomposition temperature	not determined	Rate of evaporation (ether=1)	< 1
Upper/lower flammability or	not determined	Solubility in water	insoluble
explosive limits			
Flammability (solid, gas)	not applicable	Oxidising properties	not determined
Explosive properties	not determined		
Explosive properties	not determined		

9.2. Other information

Unblocking temperature: 120°C (248°F). VOC (EPA 24), Part A: 0.12 lbs/gal, 0.014 kg/l.

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

Refer to sections 10.3, 10.4 and 10.5.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under conditions of normal use.

10.4. Conditions to avoid

Blocking agent and toluene diisocyanate are released at temperatures above 120°C (248°F).

10.5. Incompatible materials

Strong acids or bases in bulk, strong oxidizers like liquid Chlorine and concentrated Oxygen.

10.6. Hazardous decomposition products

Carbon Monoxide, Carbon Dioxide, aldehydes, acids, Hydrogen Cyanide and other toxic fumes (by combustion). During the curing process, alkylphenol will be split off. No isocyanate could be traced within the coating during curing.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Primary route of exposure under normal use:	Inhalation, skin and eye contact. Personnel with pre-existing eye, skin and respiratory disorders may be aggravated by exposure.

Acute toxicity -

Oral:	Based on available data on components,	the classification criteria are i	not met. ATE-mix = 33420
	mg/kg. If ingested, may cause gastrointes		
	Substance	Test	Result
	Alkyl phenol blocked polyisocyanate	LD50, rat	> 5000 mg/kg
	Epoxy resin	LD50, rat	> 5000 mg/kg
	Butanedioldiglycidyl ether	LD50, rat	1163 mg/kg
Dermal:	Based on available data on components, mg/kg.	the classification criteria are i	not met. ATE-mix = 31609
	Substance	Test	Result
	Epoxy resin	LD50, rabbit	> 2000 mg/kg
	Butanedioldiglycidyl ether	LD50, rabbit	2150 mg/kg
Inhalation:	Based on available data on components, (mist). Vapors or mist can irritate the resp chest discomfort, shortness of breath and with a pre-existing, nonspecific bronchial similar symptoms as well as asthma attac concentrations may lead to bronchitis, bro hypersensitivity pneumonitis, with flu-like symptoms can be delayed up to several h (Note: Generation of free diisocyanate and this product above its unblocking tempera free diisocyanate and blocking agent vap	iratory tract causing runny no l reduced lung function (breat hyperreactivity can respond to k or asthma-like symptoms. I ponchial spasm and pulmonary symptoms (e.g., fever, chills) hours after exposure. These e d blocking agent vapors is ex ature. The inhalation hazards	bee, sore throat, coughing, hing obstruction). Persons o lower concentrations wit Exposure to higher o oedema. Chemical or , has been reported. These effects are usually reversib pected during any heating
	Substance	Test	Result
	Butanedioldiglycidyl ether	ATE	> 1.5 (mist)
	Epoxy resin (CAS no. 25068-38-6)	LC50, rat, 5 h	No mortality at vapor saturation level
Skin corrosion/irritation:	Causes skin irritation.		
	Substance	Test	Result
	Substance Alkyl phenol blocked polyisocyanate	Test Skin irritation, rabbit, 4 h	Result No skin irritation
Serious eye damage/	Alkyl phenol blocked polyisocyanate	Skin irritation, rabbit, 4 h Skin irritation, rabbit	No skin irritation
serious eye damage/	Alkyl phenol blocked polyisocyanate Epoxy resin (CAS no. 25068-38-6) Severe eye irritant; may cause burns. Substance	Skin irritation, rabbit, 4 h Skin irritation, rabbit Test	No skin irritation Moderate irritation Result
serious eye damage/	Alkyl phenol blocked polyisocyanate Epoxy resin (CAS no. 25068-38-6) Severe eye irritant; may cause burns. Substance Alkyl phenol blocked polyisocyanate	Skin irritation, rabbit, 4 h Skin irritation, rabbit Test Eye irritation, rabbit	No skin irritation Moderate irritation Result Slightly irritating
Serious eye damage/	Alkyl phenol blocked polyisocyanate Epoxy resin (CAS no. 25068-38-6) Severe eye irritant; may cause burns. Substance Alkyl phenol blocked polyisocyanate Epoxy resin (CAS no. 25068-38-6)	Skin irritation, rabbit, 4 h Skin irritation, rabbit Test Eye irritation, rabbit Eye irritation, rabbit	No skin irritation Moderate irritation Result Slightly irritating Moderate irritation
Serious eye damage/	Alkyl phenol blocked polyisocyanate Epoxy resin (CAS no. 25068-38-6) Severe eye irritant; may cause burns. Substance Alkyl phenol blocked polyisocyanate Epoxy resin (CAS no. 25068-38-6) Epoxy resin (CAS No. 9003-36-5)	Skin irritation, rabbit, 4 h Skin irritation, rabbit Test Eye irritation, rabbit	No skin irritation Moderate irritation Result Slightly irritating Moderate irritation Not irritating
erious eye damage/	Alkyl phenol blocked polyisocyanate Epoxy resin (CAS no. 25068-38-6) Severe eye irritant; may cause burns. Substance Alkyl phenol blocked polyisocyanate Epoxy resin (CAS no. 25068-38-6)	Skin irritation, rabbit, 4 h Skin irritation, rabbit Test Eye irritation, rabbit Eye irritation, rabbit	No skin irritation Moderate irritation Result Slightly irritating Moderate irritation
Serious eye damage/ rritation: Respiratory or skin	Alkyl phenol blocked polyisocyanate Epoxy resin (CAS no. 25068-38-6) Severe eye irritant; may cause burns. Substance Alkyl phenol blocked polyisocyanate Epoxy resin (CAS no. 25068-38-6) Epoxy resin (CAS No. 9003-36-5)	Skin irritation, rabbit, 4 h Skin irritation, rabbit Skin irritation, rabbit Eye irritation, rabbit (OECD 405) d by rashes or hives. Repeated for the second during chest tightness, wheezing, she immediate or delayed up to the to the second during. Once sensitized, second second second during any he second during and he second during any he second	No skin irritation Moderate irritation Moderate irritation Slightly irritating Moderate irritation Not irritating Severe irritation ed overexposure or a sing g heat curing) can cause nortness of breath or several hours after expos symptoms can occur upon nent. (Note: Generation of ating of this product above
Serious eye damage/ rritation: Respiratory or skin	Alkyl phenol blocked polyisocyanate Epoxy resin (CAS no. 25068-38-6) Severe eye irritant; may cause burns. Substance Alkyl phenol blocked polyisocyanate Epoxy resin (CAS no. 25068-38-6) Epoxy resin (CAS no. 25068-38-6) Epoxy resin (CAS No. 9003-36-5) Butanedioldiglycidyl ether May cause skin sensitization as evidence large dose by inhalation (including breath respiratory sensitization as evidenced by asthmatic attack. These symptoms can b Extreme asthmatic reactions can be life th exposure to dust, cold air or other irritants free diisocyanate and blocking agent vap unblocking temperature. The inhalation h blocking agent vapors thus produced.).	Skin irritation, rabbit, 4 h Skin irritation, rabbit Eye irritation, rabbit (OECD 405) d by rashes or hives. Repeate ing offgases generated during chest tightness, wheezing, she e immediate or delayed up to rreatening. Once sensitized, she s. Sensitization can be perma ors is expected during any he azards in this section apply to	No skin irritation Moderate irritation Moderate irritation Slightly irritating Moderate irritation Not irritating Severe irritation Not irritating Severe irritation ed overexposure or a sing g heat curing) can cause nortness of breath or several hours after expos symptoms can occur upon nent. (Note: Generation of ating of this product above the free diisocyanate and
Serious eye damage/ rritation: Respiratory or skin sensitisation:	Alkyl phenol blocked polyisocyanate Epoxy resin (CAS no. 25068-38-6) Severe eye irritant; may cause burns. Substance Alkyl phenol blocked polyisocyanate Epoxy resin (CAS no. 25068-38-6) Epoxy resin (CAS no. 25068-38-6) Epoxy resin (CAS No. 9003-36-5) Butanedioldiglycidyl ether May cause skin sensitization as evidence large dose by inhalation (including breath respiratory sensitization as evidenced by asthmatic attack. These symptoms can b Extreme asthmatic reactions can be life th exposure to dust, cold air or other irritants free diisocyanate and blocking agent vap unblocking temperature. The inhalation h blocking agent vapors thus produced.).	Skin irritation, rabbit, 4 h Skin irritation, rabbit Eye irritation, rabbit (OECD 405) d by rashes or hives. Repeated during chest tightness, wheezing, she immediate or delayed up to preatening. Once sensitized, she is sensitization can be perma ors is expected during any he azards in this section apply to Test	No skin irritation Moderate irritation Moderate irritation Slightly irritating Moderate irritation Not irritating Severe irritation Not irritating Severe irritation ed overexposure or a sing pheat curing) can cause nortness of breath or several hours after expos symptoms can occur upon nent. (Note: Generation of ating of this product above the free diisocyanate and Result
Serious eye damage/ rritation: Respiratory or skin	Alkyl phenol blocked polyisocyanate Epoxy resin (CAS no. 25068-38-6) Severe eye irritant; may cause burns. Substance Alkyl phenol blocked polyisocyanate Epoxy resin (CAS no. 25068-38-6) Epoxy resin (CAS no. 25068-38-6) Epoxy resin (CAS No. 9003-36-5) Butanedioldiglycidyl ether May cause skin sensitization as evidence large dose by inhalation (including breath respiratory sensitization as evidenced by asthmatic attack. These symptoms can b Extreme asthmatic reactions can be life th exposure to dust, cold air or other irritants free diisocyanate and blocking agent vap unblocking temperature. The inhalation h blocking agent vapors thus produced.).	Skin irritation, rabbit, 4 h Skin irritation, rabbit Eye irritation, rabbit (OECD 405) d by rashes or hives. Repeate ing offgases generated during chest tightness, wheezing, she e immediate or delayed up to rreatening. Once sensitized, she s. Sensitization can be perma ors is expected during any he azards in this section apply to	No skin irritation Moderate irritation Moderate irritation Slightly irritating Moderate irritation Not irritating Severe irritation Not irritating Severe irritation ed overexposure or a sing g heat curing) can cause nortness of breath or several hours after expos symptoms can occur upon nent. (Note: Generation of ating of this product above the free diisocyanate and

Other mormation.	None
Other information:	Nexe
Aspiration hazard:	Based on available data, the classification criteria are not met.
STOT-repeated exposure:	Hazardous ingredients: based on available data, the classification criteria are not met. Chronic overexposure to diisocyanates has been reported to cause lung damage (including fibrosis, decrease in lung function) that may be permanent.
STOT-single exposure:	Hazardous ingredients: based on available data, the classification criteria are not met.
Reproductive toxicity:	Epoxy resin: based on available data, the classification criteria are not met. Butanedioldiglycidyl ether: not classified due to lack of data. 4-Nonylphenol, branched: Suspected of damaging fertility. Suspected of damaging the unborn child.
Carcinogenicity:	As per 29 CFR 1910.1200 (Hazard Communication), this product contains no carcinogens as listed by the National Toxicology Program (NTP), the International Agency for Research on Cancer (IARC), the Occupational Safety and Health Administration (OSHA) or Regulation (EC) No 1272/2008.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicological data have not been determined specifically for this product. The information given below is based on a knowledge of the components and the ecotoxicology of similar substances.

12.1. Toxicity

Epoxy resin (number average molecular weight <= 700) is toxic to aquatic organisms and may cause long-term adverse effects in the aquatic environment (LC50/EC50 between 1 and 10 mg/L in the most sensitive species).

12.2. Persistence and degradability

Epoxy resin, Butanedioldiglycidyl ether, Alkyl phenol blocked polyisocyanate: not readily biodegradable

12.3. Bioaccumulative potential

Epoxy resin: log Kow = 2.64 - 3.78; BCF = 31 (QSAR); low potential for bioaccumulation. 4-Nonylphenol, branched: may bioaccumulate in fish and aquatic organisms.

12.4. Mobility in soil

Paste. Insoluble in water. Epoxy resin: if product enters soil, it will be mobile and may contaminate groundwater (log Koc < = 3.65) In determining environmental mobility, consider the product's physical and chemical properties (see Section 9).

12.5. Results of PBT and vPvB assessment

Not available

12.6. Other adverse effects

None known

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Combine resin and curative. The final cured material is considered nonhazardous. Landfill sealed containers with a properly licensed facility. Unreacted components are a special waste (classified as hazardous according to 2008/98/EC). May be incinerated at an appropriate facility. Check local, state and national/federal regulations and comply with the most stringent requirement.

SECTION 14: TRANSPORT INFORMATION

14.1. UN number	
ADR/RID/ADN/IMDG/ICAO:	UN3082
TDG:	UN3082
US DOT:	UN3082
14.2. UN proper shipping name	
ADR/RID/ADN/IMDG/ICAO:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (EPOXY RESIN)
TDG:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (EPOXY RESIN)
US DOT:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (EPOXY RESIN)
14.3. Transport hazard class(es)	
ADR/RID/ADN/IMDG/ICAO:	9
TDG:	9
US DOT:	9
14.4. Packing group	
ADR/RID/ADN/IMDG/ICAO:	III
TDG:	III
US DOT:	III

14.5. Environmental haz	
MARINE POLLUTAN	
14.6. Special precaution	
	AUTIONS FOR USER
=	according to Annex II of MARPOL73/78 and the IBC Code
NOT APPLICABLE	
14.8. Other information	
US DOT: ERG NO.17	
,	pped as NON-RESTRICTED in non-bulk packagings (119 gallons or less) by motor vehicle, rail car or aircraft.
(49 CFR 17	
IMDG: EmS. F-A, S-F	
of 5 L or less.	ed as NON-RESTRICTED in single or combination packagings containing a net quantity per single or inner packaging (IMDG CODE Amendment 37-14, 2.10.2.7)
ICAO/IATA: May be s packagin	shipped as NON-RESTRICTED in single or combination packagings containing a net quantity per single or inner Ig of 5 L or less.(IATA Dangerous Goods Regulation 56 th edition, 4.4 Special Provisions A197)
	ode M6 Tunnel restriction code (E)
	d as NON-RESTRICTED in single or combination packagings containing a net quantity per single or inner packaging ADR 2015 Volume 1, Chapter 3.3 Special Provisions 375)
SECTION 15: REGULAT	TORY INFORMATION
15.1. Safety, health and	environmental regulations/legislation specific for the substance or mixture
15.1.1. EU regulations	
Authorisations under Ti	tle VII: Not applicable
Restrictions under Title	VIII: None
Other EU regulations:	Directive 94/33/EC on the protection of young people at work
15.1.2. National regulation	ons
US EPA SARA TITLE III	
312 Hazards:	313 Chemicals:
Immediate	None
Delayed	
Reactive	
Other national regulatio	ns: National implementations of the EC Directives referred to in section 15.1.1.
15.2. Chemical safety as	sessment

15.2. Chemical safety assessment No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

		nt concerning the International Carriage of Dangerous Goods by Inland Waterways
•		nt concerning the International Carriage of Dangerous Goods by Road
	ATE: Acute Toxicity Estimation	
	BCF: Bioconcentration Fac	
	ES: Exposure Standard	ng Packaging Regulation (1272/2008/EC)
	GHS: Globally Harmonized	d System
	ICAO: International Civil A	
	IMDG: International Maritir	
		n to 50 % of a test population
	LD50: Lethal Dose to 50%	
	LOEL: Lowest Observed E	
	N/A: Not Applicable	
	NA: Not Available	
	NOAEL: No Observed Adv	verse Effect Level
	NOEL: No Observed Effect	t Level
	OECD: Organization for E	conomic Co-operation and Development
	PBT: Persistent, Bioaccum	nulative and Toxic substance
	(Q)SAR: Quantitative Strue	
		luation, Authorisation and Restriction of Chemicals Regulation (1907/2006/EC)
		ng the International Carriage of Dangerous Goods by Rail
	SDS: Safety Data Sheet	
	STEL: Short Term Exposu	
		Organ Toxicity, Repeated Exposure
		Organ Toxicity, Single Exposure
	TDG: Transportation of Da	
		epartment of Transportation
		very Bioaccumulative substance
	WEL: Workplace Exposure	
	WHMIS: Workplace Hazar	dous Materials Information System
	WHMIS: Workplace Hazar Other abbreviations and a	dous Materials Information System cronyms can be looked up at www.wikipedia.org.
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This information is based solely on data provided by suppliers of the materials used, not on the mixture itself. No warranty is expressed or implied regarding the suitability of the product for the user's particular purpose. The user must make their own determination as to suitability.