

## SAFETY DATA SHEET in accordance with 1907/2006/EC (REACH, as amended by 453/2010/EC) 29 CFR 1910.1200 and WHMIS 2015 Revision date: 24 September 2020 Initial date of issue: 17 May 2007 SDS No. 340A-6b SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING 1.1. Product identifier ARC MX2 (Part A) 1.2. Relevant identified uses of the substance or mixture and uses advised against ARC Polymer Composite. Repair damage caused by impact, abrasion, erosion or corrosion; rebuild worn areas; fill holes and cracks; provide abrasion resistant surfaces. 1.3. Details of the supplier of the safety data sheet Supplier: Company: A.W. CHESTERTON COMPANY 860 Salem Street Groveland, MA 01834-1507, USA Tel.: +1 978-469-6446 Fax: +1 978-469-6785 (Mon. - Fri. 8:30 - 5:00 PM EST) SDS requests: www.chesterton.com E-mail (SDS questions): ProductMSDSs@chesterton.com E-mail: customer.service@chesterton.com Canada: A.W. Chesterton Company Ltd., 889 Fraser Drive, Unit 105, Burlington, Ontario L7L 4X8 - Tel. 905-335-5055 EU: Chesterton International GmbH, Am Lenzenfleck 23, D85737 Ismaning, Germany - Tel. +49-89-996-5460 1.4. Emergency telephone number 24 hours per day, 7 days per week Call Infotrac: 1-800-535-5053 Outside N. America: +1 352-323-3500 (collect) SECTION 2: HAZARDS IDENTIFICATION 2.1. Classification of the substance or mixture 2.1.1. Classification according to Regulation (EC) No 1272/2008 [CLP] / 29 CFR 1910.1200 / WHMIS 2015 / GHS Eye Irrit. 2, H319 Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chronic 3, H412 2.1.2. Australian statement of hazardous nature Hazardous according to criteria of Safe Work Australia. 2.1.3. Additional information For full text of H-statements and R-phrases: see SECTIONS 2.2 and 16. 2.2. Label elements Labelling according to Regulation (EC) No 1272/2008 [CLP] / 29 CFR 1910.1200 / WHMIS 2015 / GHS Hazard pictograms: Signal word: Warning Hazard statements: H315 Causes skin irritation. H319 Causes serious eye irritation. H317 May cause an allergic skin reaction. H412 Harmful to aquatic life with long lasting effects.

Precautionary s	statements:	P302/352 P333/313 P305/351/338		oves and eye/fa with plenty of ash occurs: Ge cautiously with	ace protection. soap and water. et medical advice/attention. n water for several minutes. Remove contact
		P337/313If eye irritation persists: Get medical advice,P362/364Take off contaminated clothing and wash it		cal advice/attention.	
Supplemental i		None			
2.3. Other haza					
-		-	-		final cured material is considered nonhazardous.
	OMPOSITION	/INFORMATION	ON INGREDIENTS	5	
3.2. Mixtures		0/ 144	040 No /	DEAGU	
Hazardous Ingr	edients	% Wt.	CAS No./ EC No.	REACH Reg. No.	Classification (CLP/GHS)
	Epoxy resin (number average molecular weight <= 700)		25068-38-6 500-033-5	01-211945 6619-26	Eye Irrit. 2, H319 Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chronic 2, H411
Benzyl Alcohol		1-5	100-51-6 202-859-9	NA	Acute Tox. 4, H332, H302 Eye Irrit. 2, H319
Other ingredient Aluminum oxide		55-65	1344-28-1	NA	Not classified*
Aluminum oxide		55-05	215-691-6		
Silica (Quartz)		1-5	14808-60-7 238-878-4	NA	Not classified*
Titanium dioxide		0.1-0.9	9 13463-67-7 236-675-5	01-211948 9379-17	Not classified*
*Substance with <sup>1</sup> Classified accord	ling to: * 29 CF * 1272/ * WHM	R 1910.1200, 191 2008/EC, REACH IS 2015	5, 1916, 1917, Mass.   HSC: 1008 (2004)]	Right-to-Know La	aw (ch. 40, M.G.LO. 111F), California Proposition 65
SECTION 4: FI	RST AID MEA	SURES			
4.1. Description	n of first aid n	neasures			
Inhalation:	Remove to f	resh air. If not br	eathing, administer	artificial respira	ation. Contact physician.
Skin contact:	Remove con irritation pers		ng. Wash clothing b	efore reuse. W	ash skin with soap and water. Contact physician if
Eye contact:	Flush eyes f	or at least 15 mir	nutes with large amo	ounts of water.	Contact physician if irritation persists.
Ingestion:	Do not induc	e vomiting. Cont	act physician imme	diately.	
4.2. Most impor	rtant symptor	ns and effects,	both acute and de	layed	
			sensitization as evi and labored breat		hes or hives. If vapors are produced, they will
4.3. Indication of	of any immed	iate medical att	ention and specia	l treatment ne	eded
Treat symptoms.					
SECTION 5: FI		MEASURES			
5.1. Extinguish	-				
Carbon Dioxide,	•	-			
5.2. Special hazards arising from the substance or mixture					
None	a a -				
5.3. Advice for	-	. –			
Cool exposed co	ontainers with	water. Recomme	end Firefighters wea	ar selt-containe	d breathing apparatus.

Flammability Classification: HAZCHEM Emergency Action Code: 2 **Z** 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 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 Remove contaminated clothing immediately. Wash clothing before reuse. Contaminated leather including shoes cannot be decontaminated and should be discarded. Utilize exposure controls and personal protection as specified in Section 8. Avoid creating and breathing dust during removal, drilling, grinding, sawing or sanding. 7.2. Conditions for safe storage, including any incompatibilities Store in a cool, dry area. 7.3. Specific end use(s) No special precautions. SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION 8.1. Control parameters Occupational exposure limit values Ingredients **OSHA PEL<sup>1</sup> ACGIH TLV<sup>2</sup> UK WEL<sup>3</sup>** AUSTRALIA ES4 mg/m<sup>3</sup> ppm mg/m<sup>3</sup> mg/m<sup>3</sup> mg/m<sup>3</sup> ppm ppm ppm Epoxy resin (number average molecular weight  $\leq 700$ ) Benzyl Alcohol \_ 5 10 (inhal) 10 10 Aluminum oxide (resp) (insp) 15 (total) (resp) 4 Silica (Quartz) 10/(% 0.025 0.1 0.1 (resp) (resp)  $SiO_2 + 2)$ (total) 30/(%  $SiO_2 + 2)$ Titanium dioxide (total) 15 10 (inhal) 10 10 (resp) 4 <sup>1</sup> United States Occupational Health & Safety Administration permissible exposure limits.

<sup>2</sup> American Conference of Governmental Industrial Hygienists threshold limit values.

<sup>3</sup> EH40 Workplace exposure limits, Health & Safety Executive

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

### 8.2. Exposure controls

### 8.2.1. Engineering measures

Provide sufficient ventilation to keep the vapor concentrations below the exposure limits. If it is necessary to alter the final cured product such that dust may be generated, use adequate dust extraction or damp down.

#### 8.2.2. Individual protection measures

Respiratory protection:Not normally needed. If exposure limits are exceeded, utilize an approved air-supplied respirator.Protective gloves:Chemical resistant gloves (e.g., neoprene)

Eye and face protection: Safety glasses

Impervious clothing as necessary to prevent skin contact.

# 8.2.3. Environmental exposure controls

Refer to sections 6 and 12.

Other:

#### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES 9.1 Information on basic physical and chemical properties

s.r. mornation on basic physical and chemical properties				
Physical state	paste	Odour	Epoxy resin	
Colour	white	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	> 200°C (> 400°F)	Relative density	2.38 kg/l	
Method	PM Closed Cup	Weight per volume	19.81 lbs/gal.	
Viscosity	50,000 cps	Coefficient (water/oil)	< 1	
Autoignition temperature	not determined	Vapour density (air=1)	> 1	
Decomposition temperature	no data available	Rate of evaporation (ether=1)	< 1	
Upper/lower flammability or	not determined	Solubility in water	very slight	
explosive limits				
Flammability (solid, gas)	not applicable	Oxidising properties	not applicable	
Explosive properties	not applicable			

9.2. Other information

None

### SECTION 10: STABILITY AND REACTIVITY

# 10.1. Reactivity

Refer to sections 10.3 and 10.5.

10.2. Chemical stability

Stable

## 10.3. Possibility of hazardous reactions

No dangerous reactions known under conditions of normal use.

### 10.4. Conditions to avoid

None

### 10.5. Incompatible materials

Strong mineral acids and bases and strong oxidizers like liquid Chlorine and concentrated Oxygen.

## 10.6. Hazardous decomposition products

Carbon Monoxide, aldehydes, acids and other toxic fumes.

### SECTION 11: TOXICOLOGICAL INFORMATION

# 11.1. Information on toxicological effects

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

Acute effects:

Moderate eye and skin irritant. May cause skin sensitization as evidenced by rashes or hives. If vapors are produced, they will irritate the respiratory tract and cause coughing and labored breathing.

Substance	Test	Result
Epoxy resin (CAS No. 25068-38-6)	LD50 oral, rat	> 5000 mg/kg
Epoxy resin (CAS No. 25068-38-6)	LC50 dermal, rabbit	> 6000 mg/kg
Benzyl Alcohol	LC50 inhalation, rat	> 4.178 mg/l
Benzyl Alcohol	LD50 oral, rat	1230 mg/kg
Titanium dioxide	LC50 inhalation, rat	> 6.82 mg/l/4 h
Titanium dioxide	LD50 oral, rat	> 10000 mg/kg
Titanium dioxide	LD50 dermal, rabbit	> 10000 mg/kg
Aluminum oxide	LD50 oral, rat	> 5000 mg/kg

Chronic effects:	Repeated inhalation of respirable free silica may cause scarring of the lungs with cough and shortness of breath. Silicosis, a delayed lung injury that is a disabling, progressive and sometimes fatal pulmonary fibrosis, may result.
Carcinogenicity:	The International Agency for Research on Cancer (IARC) and the National Toxicology Program (NTP) have classified inhaled silica as a human carcinogen. Based on recent 2-year mice skin painting studies and other available information, the International Agency for Research on Cancer (IARC) concluded that they did not have enough information to classify Epoxy resin (number average molecular weight <= 700, CAS no. 25068-38-6). The International Agency for Research on Cancer (IARC) has designated inhaled titanium dioxide as possibly carcinogenic to humans (group 2B). The silica and titanium dioxide in this product do not separate from the mixture or in of themselves become airborne, therefore, do not present a hazard in normal use.
Aspiration hazard:	Not classified as an aspiration toxicant.
Other information:	None known

### 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

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

### **12.2.** Persistence and degradability

Epoxy resin: not readily biodegradable. Benzyl Alcohol: expected to biodegrade relatively quickly.

### 12.3. Bioaccumulative potential

Epoxy resin: has the potential to bioaccumulate. Benzyl Alcohol: low potential for bioaccumulation (BCF < 100).

#### 12.4. Mobility in soil

Paste. Solubility in water: very slight. In determining environmental mobility, consider the product's physical and chemical properties (see Section 9). Epoxy resin, Benzyl Alcohol: if product enters soil, it will be mobile and may contaminate groundwater.

#### 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). Check local, state and national/federal regulations and comply with the most stringent requirement.

European List of Wastes code: 08 04 09

SECTION 14: TRANSPORT INFORMATION		
14.1. UN number		
ADR/RID/ADN/IMDG/ICAO:	NOT APPLICABLE	
TDG:	NOT APPLICABLE	
US DOT:	NOT APPLICABLE	
14.2. UN proper shipping name		
ADR/RID/ADN/IMDG/ICAO:	NON-HAZARDOUS, NON REGULATED	
TDG:	NON-HAZARDOUS, NON REGULATED	
US DOT:	NON-HAZARDOUS, NON REGULATED	
14.3. Transport hazard class(es)		
ADR/RID/ADN/IMDG/ICAO:	NOT APPLICABLE	
TDG:	NOT APPLICABLE	
US DOT:	NOT APPLICABLE	
14.4. Packing group		
ADR/RID/ADN/IMDG/ICAO:	NOT APPLICABLE	
TDG:	NOT APPLICABLE	
US DOT:	NOT APPLICABLE	
14.5. Environmental hazards		
NOT APPLICABLE		

NOT APPLI				
-	n bulk according to Annex II of MARPOL73	3/78 and the IBC Code		
NOT APPLI 14.8. Other infor				
NOT APPLIC				
SECTION 15: RE				
	Ith and environmental regulations/legislati	on specific for the substa	nce or mixture	
15.1.1. EU regula	tions			
Authorisations u	nder Title VII: Not applicable			
Restrictions und	er Title VIII: None			
Other EU regulat	ions: Directive 94/33/EC on the protection	of young people at work.		
15.1.2. National r	regulations			
US EPA SARA TI		Hazardous Materia	Is Identification System	m (HMIS)
312 Hazards:	313 Chemicals:	4 = Severe Hazard	HEALTH	2
Immediate	None	3 = Serious Hazard 2 = Moderate Hazard	FLAMMABILITY	1
Delayed		1 = Slight Hazard 0 = Minimal Hazard	PHYSICAL HAZARD	1
		* = See Section 8	<b>Personal Protection</b>	*
<b>15.2. Chemical s</b> No Chemical Safe	egulations: National implementation of the afety assessment ety Assessment has been carried out for this s			
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and sources for data: C E H N S U	or data: Chemical Classification and Information Database (CCID) European Chemicals Agency (ECHA) - Information on Chemicals Hazardous Substances Information System (HSIS) National Institute of Technology and Evaluation (NITE) Swedish Chemicals Agency (KEMI) U.S. National Library of Medicine Toxicology Data Network (TOXNET)		
	e classification for mixtures according to Regulation (EC) No 1272/2008:		
Classification	Classification procedure		
Eye Irrit. 2, H319	Calculation method		
Skin Irrit. 2, H315	Calculation method		
Skin Sens. 1, H317	Bridging principle "Dilution"		
Aquatic Chronic 3, H412	Calculation method		
H3 H3 H3 H3 H4	302: Harmful if swallowed. 315: Causes skin irritation. 317: May cause an allergic skin reaction. 319: Causes serious eye irritation. 332: Harmful if inhaled. 311: Toxic to aquatic life with long lasting effects. 2: Harmful by inhalation and if swallowed.		
R36/3 R43: N	<ul> <li>Harmun by initiation and it swallowed.</li> <li>Irritating to eyes and skin.</li> <li>May cause sensitisation by skin contact.</li> <li>Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.</li> </ul>		
Hazard pictogram names:	Exclamation mark		
Changes to the SDS in this re	evision: Sections 2.1, 3.2.		
Further information: None			
	n data provided by suppliers of the materials used, not on the mixture itself. No warranty is expressed or implied luct for the user's particular purpose. The user must make their own determination as to suitability.		