

		SAFETY DATA SHEET	
	in accordance	with 29 CFR 1910.1200, WHMIS 2022 and	d Safe Work Australia
Revision date:	24 March 2025	Date of previous issue: –	SDS No. 490A
		•	
		SUBSTANCE/MIXTURE AND OF THE C	OMPANY/UNDERTAKING
1.1. Product identit	-		
ARC CFW-CR (Part			
		ostance or mixture and uses advised ag	
Relevant identified	-	mer Composite to be used with glass fiber ation available	r and carbon liber wrap.
Uses advised again			
Reason why uses a	•	Not applicable	
	supplier of the safety		
E-mail: customer.se	34-1507, USA 46 00 PM EST) v.chesterton.com ons): ProductSDSs@c rvice@chesterton.cor	n	
Unit 105, Burlington	terton Company Ltd., , Ontario L7L 4X8 – T		
1.4. Emergency tel	-		
	RDS IDENTIFICATIO	-	
2.1. Classification	of the substance or	mixture	
Skin irritation, Cateo Skin sensitization, C	jory 2, H315	FR 1910.1200 / WHMIS 2022 / Safe Work	Australia / GHS
		ہ hronic, Category 2, H411	
2.1.2. Additional in	formation		
For full text of H-sta	tements: see SECTIC	NS 2.2 and 16.	
2.2. Label elements	6		
Labeling according	g to 29 CFR 1910.120	00 / WHMIS 2022 / Safe Work Australia /	GHS
Hazard pictograms			
Signal word:	Warning		
Hazard statements	:: H315 H317 H341 H411	Causes skin irritation. May cause an allergic skin reaction Suspected of causing genetic defec Toxic to aquatic life with long lasting	cts.

Precautionary statements:	P201 P202 P261 P264 P272 P273 P280 P302/352 P308/313 P362/364 P391 P405 P501	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid breathing vapours. Wash skin thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace. Avoid release to the environment. Wear protective gloves/clothing and eye/face protection. IF ON SKIN: Wash with plenty of soap and water. IF exposed or concerned: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. Collect spillage. Store locked up. Dispose of contents/container to an approved waste disposal plant.
Supplemental information:	None	

2.3. Other hazards

The safety and health hazards are detailed separately for Part A and Part B. The final cured material is considered nonhazardous. Upon machining, it can only be categorized as a nuisance dust.

SECTION 3: COMPOSITION/INFORMATION ON	INGREDIEN	ITS	
3.2. Mixtures			
Hazardous Ingredients ¹	% Wt.	CAS No.	GHS Classification
Epoxy resin (number average molecular weight <= 700)	60-90	28064-14-4 *	Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chronic 2, H411
2,3-Epoxypropyl o-tolyl ether	10-20	2210-79-9	Muta. 2, H341 Skin Irrit. 2, H315 Skin Sens. 1B, H317 Aquatic Chronic 2, H411

* Alternative CAS No: 9003-36-5.

¹ Classified according to: 29 CFR 1910.1200, 1915, 1916, 1917, Mass. Right-to-Know Law (ch. 40, M.G.L..O. 111F), WHMIS 2022, Safe Work Australia, GHS

SECTION 4: FIRST AID MEASURES

4.1. Description	of first aid	measures
Inhalation:	Remove to	fresh air. If not breathing, administer artificial respiration. Contact physician.
Skin contact:	Remove co	ontaminated clothing. Wash clothing before reuse. Wash skin with soap and water. Consult physician.
Eye contact:	Flush eyes	for at least 15 minutes with large amounts of water. Contact physician if irritation persists.
Ingestion:	Do not indu	ce vomiting. Contact physician immediately.
Protection of fir	st-aiders:	No action shall be taken involving any personal risk or without suitable training. Avoid contact with the product while providing aid to the victim. See section 8.2.2 for recommendations on personal protective equipment.

4.2. Most important symptoms and effects, both acute and delayed

Moderate skin irritant. May cause skin sensitization as evidenced by rashes or hives. High vapor concentrations resulting from heating can cause eye and respiratory tract irritation.

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

Treat symptoms.

SECTION 5: FIRE-FIGHTING MEASU	RES					
5.1. Extinguishing media						
Suitable extinguishing media: Ca	arbon dioxide	, dry chemical, fo	am or water fog	3		
Unsuitable extinguishing media:	High volume	water jet				
5.2. Special hazards arising from the	•	2				
Hazardous combustion products:	Carbon Mon	noxide, Carbon Di n burned without			c fumes. Dense	e smoke is
Other hazards: None noted						
5.3. Advice for firefighters						
Cool exposed containers with water. Re	commend Fi	refighters wear se	elf-contained br	eathing apparatu	IS.	
Australian HAZCHEM Emergency Act	tion Code:	2 Z				
SECTION 6: ACCIDENTAL RELEASE	MEASURE	6				
6.1. Personal precautions, protective	equipment a	and emergency	procedures			
Avoid skin contact. Utilize exposure con	trols and per	sonal protection a	as specified in S	Section 8.		
6.2. Environmental Precautions						
Keep out of sewers, streams and water	ways.					
6.3. Methods and material for contain	ment and cl	eaning up				
Contain spill to a small area. Scoop up a	and transfer t	o a suitable conta	ainer for dispos	al.		
6.4. Reference to other sections						
Refer to section 13 for disposal advice.						
SECTION 7: HANDLING AND STORA	GE					
7.1. Precautions for safe handling	-					
Do not handle until all safety precaution exposure controls and personal protecti before reuse. Contaminated leather incl	on as specifie	ed in Section 8. R	emove contam	inated clothing ir	nmediately. Wa	ash clothing
•	workplace.		ammateu anu s		ied. Contamina	ated work
	workplace.				ded. Contamina	ated work
7.2. Conditions for safe storage, inclu	workplace.				ded. Contamina	ated work
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7.2. Conditions for safe storage, inclu Store in a cool, dry area. 7.3. Specific end use(s)	workplace.				jed. Contamina	ated work
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 7.2. Conditions for safe storage, inclusion for s	workplace. uding any ind /PERSONAL	PROTECTION	ACGI	H TLV ²	AUSTRA	ALIA ES ³
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 7.2. Conditions for safe storage, inclusion for safe storage storage storage for safe storage storage storage for safe storage st	workplace. uding any ind /PERSONAL OSH ppm	Compatibilities	ACGII	H TLV ² mg/m ³	AUSTRA	ALIA ES ³ mg/m ³
clothing must not be allowed out of the v 7.2. Conditions for safe storage, inclu Store in a cool, dry area. 7.3. Specific end use(s) No special precautions. SECTION 8: EXPOSURE CONTROLS 8.1. Control parameters Occupational exposure limit values Ingredients Epoxy resin (number average molecular weight <= 700) 2,3-Epoxypropyl o-tolyl ether	Workplace. Juding any ind F/PERSONAL OSH ppm N/A	A PEL ¹ Mg/m ³ N/A	ACGII ppm N/A	H TLV ² mg/m ³ N/A	AUSTR/ ppm N/A	ALIA ES ³ mg/m ³ N/A
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 7.2. Conditions for safe storage, inclusion for safe storage storage storage for safe storage storage for safe storage st	workplace. uding any ind S/PERSONAL OSH/ ppm N/A N/A Safety Admini al Industrial H	Compatibilities	ACGII ppm N/A N/A Die exposure lin Id limit values	H TLV² mg/m³ N/A N/A	AUSTR/ ppm N/A	ALIA ES ³ mg/m ³ N/A
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8.2. Exposure controls			
8.2.1. Engineering measures			
No special requirements. If exp	oosure limits are exceeded, provi	de adequate ventilation.	
8.2.2. Individual protection m	leasures		
	Not normally needed. If exposure combined dust/organic vapour fil	e limits are exceeded, use a half or fu ter.	ll-face respirator with
Protective gloves:	Chemical resistant gloves (e.g.,	nitrile rubber, butyl rubber, neoprene,	PVC)
Eye and face protection:	Safety goggles.		
•	Impervious clothing as necessar	y to prevent skin contact.	
8.2.3. Environmental exposu			
Refer to sections 6 and 12.			
SECTION 9: PHYSICAL AND	CHEMICAL PROPERTIES		
	sical and chemical properties		
Physical state Colour	viscous liquid amber	pH Kinematic viscosity	not applicable ca. 900-1,500 mm²/s @ 25°C (calculated)
Odour Odour threshold	sweet not determined	Solubility in water Partition coefficient n-octanol/water (log value)	negligible not applicable
Boiling point or range Melting point/freezing point % Volatile (by volume) Flammability Lower/upper flammability or	140-266 °C (284-511 °F) < 17.8 °C (< 0 °F) < 0.2% not determined not applicable	Vapour pressure @ 20°C Density and/or relative density Weight per volume Vapour density (air=1) Rate of evaporation (ether=1)	10 mm Hg 1.16 kg/l 9.65 lbs/gal. > 1 < 1
explosion limits Flash point Method Autoignition temperature Decomposition temperature	140 °C (284 °F) PM Closed Cup not determined > 260 °C (> 500 °F)	% Aromatics by weight Particle characteristics Explosive properties Oxidising properties	not determined not applicable not applicable not applicable
9.2. Other information			
Dynamic viscosity: 1,100-1,700) cPs @ 25°C		
SECTION 10: STABILITY AN	D REACTIVITY		
10.1. Reactivity			
Refer to sections 10.3 and 10.5	5.		
10.2. Chemical stability			
Stable			
10.3. Possibility of hazardous	s reactions		
-	under conditions of normal use.		
10.4. Conditions to avoid			
Open flames and high tempera	itures.		
10.5. Incompatible materials			
-	strong oxidizers like liquid Chlorir	ne and concentrated Oxygen	
10.6. Hazardous decomposit	-	is and concentrated oxygoin	
-	•	n Dioxide, aldehydes and other toxic t	fumes.
SECTION 11: TOXICOLOGIC			
11.1. Information on toxicolo			
Primary route of exposure under normal use: Acute toxicity -		nel with pre-existing skin and eye dise	orders and skin allergies may

Oral:	Based on available data on components, th result in mouth, throat and gastrointestinal		not met. Ingestion may
	Substance	Test	Result
	Epoxy resin (number average molecular weight <= 700)	LD50 oral, rat	> 5,000 mg/kg
	2,3-Epoxypropyl o-tolyl ether	LD50, oral, rat	5,800 mg/kg
Dermal:			1
	Substance	Test	Result
	Epoxy resin (number average molecular weight <= 700)	LD50 dermal, rabbit	> 2,000 mg/kg
	2,3-Epoxypropyl o-tolyl ether	LD50 dermal, rabbit	> 2,000 mg/kg
Inhalation:	High vapor concentrations resulting from h	eating can cause eye and re	espiratory tract irritation.
	Substance	Test	Result
	2,3-Epoxypropyl o-tolyl ether	LC50 inhalation, rat, 4 h	6.09 mg/l
Skin corrosion/irritation:	Causes skin irritation.	, , , , , , , , , , , , , , , , , , ,	
	Substance	Test	Result
	Epoxy resin (number average molecular weight <= 700)	Skin irritation, rabbit	Moderate irritation
	2,3-Epoxypropyl o-tolyl ether	Skin irritation, human experience	Severe irritation
Serious eye damage/ irritation:	May cause eye irritation.		
	Substance	Test	Result
	Epoxy resin (number average molecular weight <= 700)	Eye irritation, rabbit	Slightly irritating
Respiratory or skin			
sensitisation:	Substance	Test	Result
	Epoxy resin (number average molecular weight <= 700)	Skin sensitization, guinea pig	Sensitizing
	2,3-Epoxypropyl o-tolyl ether	Skin sensitization, human experience	Sensitizing
Germ cell mutagenicity:	2,3-Epoxypropyl o-tolyl ether is mutagenic tests. Epoxy resin (number average molec classification criteria are not met.		
Carcinogenicity:	This product contains no carcinogens as lis International Agency for Research on Can Administration (OSHA) or the European Ch average molecular weight <= 700): based of met.	cer (IARC), the Occupationane nemicals Agency (ECHA).	al Safety and Health Epoxy resin (number
Reproductive toxicity:	Epoxy resin (number average molecular we classification criteria are not met. Prolonge Ether may cause reproductive disorders (b	d and repeated exposure to	
STOT – single exposure:	Epoxy resin (number average molecular work classification criteria are not met.	eight <= 700): based on ava	illable data, the
STOT – repeated exposure:	Epoxy resin (number average molecular working classification criteria are not met.	eight <= 700): based on ava	ilable data, the
	Substance	Test	Result
	Epoxy resin (number average molecular weight <= 700)	Sub-chronic NOAEL, oral, 90 days, rat, male / female (OECD 408)	250 mg/kg
Aspiration hazard:	Based on available data, the classification		
Other information:	None		

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

2,3-Epoxypropyl o-tolyl ether and Epoxy resin (number average molecular weight <= 700) are 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

Unreacted components (Parts A and B), improperly released to the environment, can cause ground and water pollution. Epoxy resin (number average molecular weight <= 700), 2,3-Epoxypropyl o-tolyl ether: not readily biodegradable.

12.3. Bioaccumulative potential

Epoxy resin (number average molecular weight <= 700): moderate potential for bioaccumulation. Octanol/water partition coefficient (log Kow): 3.6, estimated.

12.4. Mobility in soil

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

12.5. Endocrine disrupting properties

None known

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. 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	ON
14.1. UN number or ID number	
ADG/ADR/RID/ADN/IMDG/ICAO:	UN3082
TDG:	UN3082
US DOT:	UN3082
14.2. UN proper shipping name	
ADG/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)	
ADG/ADR/RID/ADN/IMDG/ICAO:	9
TDG:	9
US DOT:	9
14.4. Packing group	
ADG/ADR/RID/ADN/IMDG/ICAO:	
TDG:	
US DOT: 14.5. Environmental hazards	
MARINE POLLUTANT	
14.6. Special precautions for user	
NO SPECIAL PRECAUTIONS FOR USE	
14.7. Maritime transport in bulk accordir	
14.8. Other information	
US DOT: ERG NO.171, MAY BE SHIPPED AS NON-RESTRICT	ED IN NON-BULK PACKAGINGS (119 GALLONS OR LESS) BY MOTOR VEHICLE, RAIL CAR
OR AIRCRAFT.	ED IN NON-BOEK FACKAGINGS (119 GALLONS OK LESS) DT WOTOK VEHICLE, NAIL CAN
(49 CFR 171.4(C))	
IMDG: EMS. F-A, S-F	
	ED IN SINGLE OR COMBINATION PACKAGINGS CONTAINING A NET QUANTITY PER
SINGLE OR INNER PACKAG	GING OF 5 L OR LESS. (IMDG CODE AMENDMENT 37-14, 2.10.2.7)

Date: 24 March 2	025 SDS No. 490A
P S ADR: CLAS MAY BE SH S	MAY BE SHIPPED AS NON-RESTRICTED IN SINGLE OR COMBINATION PACKAGINGS CONTAINING A NET QUANTITY ER SINGLE OR INNER PACKAGING OF 5 L OR LESS. (IATA DANGEROUS GOODS REGULATION 56 TH EDITION, 4.4 PECIAL PROVISIONS A197) SIFICATION CODE M6, TRANSPORT CATEGORY 3, TUNNEL RESTRICTION CODE (-) IPPED AS NON-RESTRICTED IN SINGLE OR COMBINATION PACKAGINGS CONTAINING A NET QUANTITY PER INGLE OR INNER PACKAGING OF 5 L OR LESS. (ADR 2015 VOLUME 1, CHAPTER 3.3 SPECIAL PROVISIONS 375) HEM CODE: •3Z HIN: 90
SECTION 15: RE	GULATORY INFORMATION
	th and environmental regulations/legislation specific for the substance or mixture
15.1.1. National r	
US EPA SARA TI	
312 Hazards:	Chemicals subject to reporting requirements of Section 313 of
512 11828105.	EPCRA and of 40 CFR 372:
Skin irritation	None
Skin sensitization	
Germ cell mutage	nicity
TSCA: All chemica	al components are listed or exempted.
Other national re	gulations: None
SECTION 16: OT	HER INFORMATION
Abbreviations	ADG: Australian Dangerous Goods Code
and acronyms:	ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road ATE: Acute Toxicity Estimate BCF: Bioconcentration Factor cATpE: Converted Acute Toxicity point Estimate ES: Exposure Standard GHS: Globally Harmonized System ICAO: International Civil Aviation Organization IMDG: International Maritime Dangerous Goods LC50: Lethal Concentration to 50% of a test population LD50: Lethal Concentration to 50% of a test population LD50: Lethal Dose to 50% of a test population LOEL: Lowest Observed Effect Level N/A: Not Applicable NA: Not Available NOEC: No Observed Effect Concentration NOEL: No Observed Effect Concentration NOEL: No Observed Effect Level OECD: Organization for Economic Co-operation and Development (Q)SAR: Quantitative Structure-Activity Relationship REL: Recommended Exposure Limit RID: Regulations concerning the International Carriage of Dangerous Goods by Rail STOT RE: Specific Target Organ Toxicity, Repeated Exposure STOT SE: Specific Target Organ Toxicity, Single Exposure STOT SE: Specific Target Org
Key literature ref and sources for o	

Classification	Classification procedure
Skin Irrit. 2, H315	Calculation method
Skin Sens. 1, H317	Calculation method
Muta. 2, H341	Calculation method
Aquatic Chronic 2, H411	Calculation method
	H341: Suspected of causing genetic defects.
	H411: Toxic to aquatic life with long lasting effects.
Hazard pictogram names:	H411: Toxic to aquatic life with long lasting effects. Health hazard, exclamation mark, environment.
	Health hazard, exclamation mark, environment.

regarding the suitability of the product for the user's particular purpose. The user must make their own determination as to suitability.