

		SAFETY DATA	SHEET		
in	accordance wi	th 29 CFR 1910.1200, WH		Vork Australia	
Revision date: 11 May 2	023	Date of previous issue:	22 April 2021	SDS No.	240A-17
SECTION 1: IDENTIFICATI	ON OF THE S	UBSTANCE/MIXTURE AN	D OF THE COMPAN	NY/UNDERTAKING	
1.1. Product identifier					
ARC 988 (Part A) (GY, RD)					
1.2. Relevant identified use	s of the subs	tance or mixture and uses	advised against		
Relevant identified uses:	When mixed	with other 988 constituents ainst attack by chemical exp	, the resulting blend		rface and protect
Uses advised against:	No information	on available			
Reason why uses advised	against: No	ot applicable			
1.3. Details of the supplier	of the safety o	data sheet			
Company:		Supplie	er:		
A.W. CHESTERTON COMP	ANY		-		
860 Salem Street	110.4				
Groveland, MA 01834-1507, Tel. +1 978-469-6446 Fax		8785			
(Mon Fri. 8:30 - 5:00 PM E		0700			
SDS requests: www.chester	on.com				
E-mail (SDS questions): Pro		esterton.com			
E-mail: customer.service@cl	nesterton.com				
Canada: A.W. Chesterton Co Unit 105, Burlington, Ontario					
1.4. Emergency telephone	number				
24 hours per day, 7 days per					
Call Infotrac: 1-800-535-505 Outside N. America: +1 352		loot)			
NSW Poisons Information Ce					
SECTION 2: HAZARDS IDE		·			
2.1. Classification of the su					
2.1.1. Classification accord			/ Safe Work Austra	llia / GHS	
Skin irritation, Category 2, H	-				
Skin sensitization, Category 2, H					
Germ cell mutagenicity, Cate					
Hazardous to the aquatic en		onic, Category 2, H411			
2.1.2. Additional information	on				
For full text of H-statements:	see SECTION	IS 2.2 and 16.			
2.2. Label elements					
Labeling according to 29 C	FR 1910.1200	/ WHMIS 2015 / Safe Wor	k Australia / GHS		
Hazard pictograms:		\land			
		!			
Signal word:	Warning	V V			
Hazard statements:	H315	Causes skin irritation.			
nazaru sidlemenils.	H315 H317	May cause an allergic s	kin reaction		
	-				
	H341	Suspected of causing g Toxic to aquatic life with			

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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, refer to the precautions in the safety data sheets for Part A and Part B.

SECTION 3: COMPOSITION/INFORMATION ON	INGREDIENT	S	
3.2. Mixtures			
Hazardous Ingredients ¹	% Wt.	CAS No.	GHS Classification
Epoxy resin (number average molecular weight <= 700)	80-90	28064-14-4 *	Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chronic 2, H411
2,3-Epoxypropyl o-tolyl ether	5-10	2210-79-9	Muta. 2, H341 Skin Irrit. 2, H315 Skin Sens. 1B, H317 Aquatic Chronic 2, H411
Other ingredients:			
Diiron trioxide	0-6	1309-37-1	Not classified **
Titanium dioxide	0-5	13463-67-7	Not classified **

* Alternative CAS No: 9003-36-5. **Substance with a workplace exposure limit.

¹ Classified according to: 29 CFR 1910.1200, 1915, 1916, 1917, Mass. Right-to-Know Law (ch. 40, M.G.L..O. 111F), WHMIS 2015, 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 contaminated 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 induce vomiting. Contact physician immediately.Protection of first-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.

5.1. Extinguishing media Suitable extinguishing media: Jnsuitable extinguishing media:						
Insuitable extinguishing modia:	Carbon dioxide,	dry chemical, fo	oam or water fog	I		
moultable extinguishing media.	High volume w	/ater jet				
5.2. Special hazards arising from	the substance o	r mixture				
Hazardous combustion products:			ioxide, aldehyde t sufficient oxyge	es and other toxi en.	c fumes. Dens	se smoke is
Other hazards: None noted						
5.3. Advice for firefighters						
Cool exposed containers with water	. Recommend Fir	efighters wear	self-contained b	reathing apparat	us.	
Australian HAZCHEM Emergency	Action Code:	2 Z				
SECTION 6: ACCIDENTAL RELEA	ASE MEASURES	;				
6.1. Personal precautions, protect	tive equipment a	and emergency	y procedures			
Avoid skin contact. Utilize exposure	controls and pers	sonal protectior	n as specified in	Section 8.		
6.2. Environmental Precautions						
Keep out of sewers, streams and wa	aterways.					
6.3. Methods and material for con	tainment and cl	eaning up				
Contain spill to a small area. Scoop	up and transfer to	o a suitable cor	ntainer for dispos	sal.		
6.4. Reference to other sections						
Refer to section 13 for disposal advi	ce.					
SECTION 7: HANDLING AND STO						
7.1. Precautions for safe handling						
exposure controls and personal prot before reuse. Contaminated leather clothing must not be allowed out of t sanding.	including shoes of	cannot be deco	ntaminated and	should be disca	rded. Contam	inated work
7.2. Conditions for safe storage, in	ncluding any ind	compatibilities				
Store between 10°C (50°F) and 32°	C (90°F) in a dry	area.				
7.3. Specific end use(s)						
No special precautions.						
SECTION 8: EXPOSURE CONTRO	OLS/PERSONAL	PROTECTION				
3.1. Control parameters						
Occupational exposure limit value	es					
ngredients	OSHA	PEL ¹	ACGI	H TLV ²	AUST	RALIA ES ³
	ppm	mg/m ³	ppm	mg/m³	ppm	mg/m³
Epoxy resin (number average nolecular weight <= 700)	N/A	N/A	N/A	N/A	N/A	N/A
2,3-Epoxypropyl o-tolyl ether Diiron trioxide	N/A (total) (resp.) (fume)	N/A 15 5 10	N/A (resp.)	N/A 5	N/A N/A	N/A 5 (fume, a Fe) 10
		15	N1/A	10	N1/A	
Fitanium dioxide	(total)	15	N/A	10	N/A	10
ītanium dioxide	(total)	15	N/A	10	N/A	

² American Conference of Governmental Industrial Hygienists threshold limit values

³ Safe Work Australia, Workplace Exposure Standards for Airborne Contaminants

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Biological limit values			
No biological exposure limits	noted for the ingredient(s).		
8.2. Exposure controls			
8.2.1. Engineering measure	s		
Provide sufficient ventilation t product such that dust may b		ons below the exposure limits. If it is nece ust extraction or damp down.	essary to alter the final cured
8.2.2. Individual protection	measures		
Respiratory protection:	Not normally needed. If expo dust/organic vapour filter.	osure limits are exceeded, use a half or fu	ll-face respirator with combined
Protective gloves:	Chemical resistant gloves (e	.g., nitrile rubber, butyl rubber, neoprene,	PVC)
Eye and face protection:	Safety goggles.		
Other:	Impervious clothing as neces	ssary to prevent skin contact.	
8.2.3. Environmental expos	ure controls		
Refer to sections 6 and 12.			
SECTION 9: PHYSICAL AN	D CHEMICAL PROPERTIES	3	
9.1. Information on basic pl	nysical and chemical prope	rties	
Physical state Colour Odour Odour threshold	viscous paste gray or red sweet not determined	pH Kinematic viscosity Solubility in water Partition coefficient	not applicable 6,333 mm ² /s @ 25°C insoluble not applicable
Boiling point or range Melting point/freezing point % Volatile (by volume) Flammability Lower/upper flammability o explosion limits	0% not determined	n-octanol/water (log value) Vapour pressure @ 20°C Density and/or relative density Weight per volume Vapour density (air=1) Rate of evaporation (ether=1)	not determined 1.2 kg/l 9.98 lbs/gal. > 1 < 1
Flash point Method Autoignition temperature Decomposition temperature	159.4 °C (319 °F) PM Closed Cup not applicable not determined	% Aromatics by weight Particle characteristics Explosive properties Oxidising properties	0% not applicable not determined not determined
9.2. Other information			
None			
SECTION 10: STABILITY A	ND REACTIVITY		
10.1. Reactivity			
Refer to sections 10.3 and 10).5.		
10.2. Chemical stability			
Stable			
10.3. Possibility of hazardo	us reactions		
No dangerous reactions know	vn under conditions of norma	l use.	
10.4. Conditions to avoid			
Open flames and high tempe	ratures.		
10.5. Incompatible material	S		
Strong acids or bases in bulk	, strong oxidizers like liquid C	hlorine and concentrated Oxygen.	
10.6. Hazardous decompos	ition products		
Thermal decomposition may	produce Carbon Monoxide, C	Carbon Dioxide, aldehydes and other toxic	fumes.
SECTION 11: TOXICOLOG	CAL INFORMATION		
11.1. Information on toxicol			
Primary route of exposure under normal use: Acute toxicity -	Skin and eye contact. Per be aggravated by exposu	rsonnel with pre-existing skin and eye diso re.	orders and skin allergies may

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n (number average weight <= 700) propyl o-tolyl ether n (number average weight <= 700) propyl o-tolyl ether concentrations resulting from h propyl o-tolyl ether irritation.	Test LD50 oral, rat LD50, oral, rat Test LD50 dermal, rabbit LD50 dermal, rabbit neating can cause eye and r Test LC50 inhalation, rat, 4 h Test Skin irritation, rabbit Skin irritation, human experience	Result> 5,000 mg/kg5,800 mg/kgResult> 2,000 mg/kg> 2,000 mg/kgespiratory tract irritation.Result6.09 mg/lResultModerate irritationSevere irritation
n (number average weight <= 700) propyl o-tolyl ether n (number average weight <= 700) propyl o-tolyl ether concentrations resulting from h propyl o-tolyl ether irritation.	LD50 oral, rat LD50, oral, rat Test LD50 dermal, rabbit LD50 dermal, rabbit theating can cause eye and r Test LC50 inhalation, rat, 4 h Test Skin irritation, rabbit Skin irritation, human	 > 5,000 mg/kg 5,800 mg/kg Result > 2,000 mg/kg > 2,000 mg/kg espiratory tract irritation. Result 6.09 mg/l Result Moderate irritation
n (number average weight <= 700) propyl o-tolyl ether concentrations resulting from h propyl o-tolyl ether irritation. n (number average molecular 700) propyl o-tolyl ether	Test LD50 dermal, rabbit LD50 dermal, rabbit neating can cause eye and r Test LC50 inhalation, rat, 4 h Test Skin irritation, rabbit Skin irritation, human	Result > 2,000 mg/kg > 2,000 mg/kg espiratory tract irritation. Result 6.09 mg/l Result Moderate irritation
n (number average weight <= 700) propyl o-tolyl ether concentrations resulting from h propyl o-tolyl ether irritation. n (number average molecular 700) propyl o-tolyl ether	LD50 dermal, rabbit LD50 dermal, rabbit heating can cause eye and r Test LC50 inhalation, rat, 4 h Test Skin irritation, rabbit Skin irritation, human	 > 2,000 mg/kg > 2,000 mg/kg espiratory tract irritation. Result 6.09 mg/l Result Moderate irritation
n (number average weight <= 700) propyl o-tolyl ether concentrations resulting from h propyl o-tolyl ether irritation. n (number average molecular 700) propyl o-tolyl ether	LD50 dermal, rabbit LD50 dermal, rabbit heating can cause eye and r Test LC50 inhalation, rat, 4 h Test Skin irritation, rabbit Skin irritation, human	 > 2,000 mg/kg > 2,000 mg/kg espiratory tract irritation. Result 6.09 mg/l Result Moderate irritation
weight <= 700) propyl o-tolyl ether concentrations resulting from h propyl o-tolyl ether irritation. n (number average molecular 700) propyl o-tolyl ether	LD50 dermal, rabbit neating can cause eye and r Test LC50 inhalation, rat, 4 h Test Skin irritation, rabbit Skin irritation, human	 > 2,000 mg/kg espiratory tract irritation. Result 6.09 mg/l Result Moderate irritation
oropyl o-tolyl ether irritation. n (number average molecular 700) oropyl o-tolyl ether	Test Test C50 inhalation, rat, 4 h Test Skin irritation, rabbit Skin irritation, human	Result Result Result Result Moderate irritation
propyl o-tolyl ether irritation. n (number average molecular 700) propyl o-tolyl ether	Test LC50 inhalation, rat, 4 h Test Skin irritation, rabbit Skin irritation, human	Result 6.09 mg/l Result Moderate irritation
propyl o-tolyl ether irritation. n (number average molecular 700) propyl o-tolyl ether	LC50 inhalation, rat, 4 h Test Skin irritation, rabbit Skin irritation, human	6.09 mg/l Result Moderate irritation
irritation. n (number average molecular 700) propyl o-tolyl ether	Test Skin irritation, rabbit Skin irritation, human	Result Moderate irritation
n (number average molecular 700) propyl o-tolyl ether	Skin irritation, rabbit Skin irritation, human	Moderate irritation
700) propyl o-tolyl ether	Skin irritation, rabbit Skin irritation, human	Moderate irritation
700) propyl o-tolyl ether	Skin irritation, human	
		Severe irritation
eye irritation.		
	Test	Result
n (number average molecular 700)	Eye irritation, rabbit	Slightly irritating
	Test	Result
n (number average molecular 700)	Skin sensitization, guinea pig	Sensitizing
propyl o-tolyl ether	Skin sensitization, human experience	Sensitizing
opyl o-tolyl ether is mutagenic (number average molecular w n criteria are not met.		
ional Agency for Research on carcinogenic to humans (grou m the mixture or in of itself be e. Epoxy resin (number avera ation criteria are not met.	o 2B). The titanium dioxide i come air-borne, therefore it	n this product does not does not present a hazard
(number average molecular w n criteria are not met. Prolonge ause reproductive disorders (t	ed and repeated exposure to	
/number overere melecular	eight <= 700): based on ava	ailable data, the
n criteria are not met.	reight <= 700): based on ava	ailable data, the
า criteria are not met. (number average molecular พ		Result
า criteria are not met. (number average molecular พ	Test	250 mg/kg
า criteria are not met. (number average molecular พ	Test Sub-chronic NOAEL, oral, 90 days, rat, male / female (OECD 408)	230 mg/kg
n criteria are not met. (number average molecular w n criteria are not met. n (number average molecular	Sub-chronic NOAEL, oral, 90 days, rat, male / female (OECD 408)	230 mg/kg
n	n (number average molecular w n criteria are not met.	e Test

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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. Diiron trioxide, Titanium dioxide: inorganic substances.

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 paste. Insoluble in water. 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. 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

SECTION 14. TRANSPORT INFORMATI	
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:	III
14.5. Environmental hazards	
MARINE POLLUTANT	
14.6. Special precautions for user	
NO SPECIAL PRECAUTIONS FOR US	
14.7. Maritime transport in bulk accordin	
NOT APPLICABLE 14.8. Other information	
US DOT: ERG NO.171, May be shipped as NON BES	TRICTED in non-hulk poskagings (110 gallans or loss) hy mater vahials, roll ass as sizeraft
(49 CFR 171.4(c))	TRICTED in non-bulk packagings (119 gallons or less) by motor vehicle, rail car or aircraft.
IMDG: EmS. F-A, S-F	
	ICTED in single or combination packagings containing a net quantity per single or inner packaging
of 5 L or less. (IMDG CODE Ame	endment 37-14, 2.10.2.7)
	ESTRICTED in single or combination packagings containing a net quantity per single or inner
1 0 0 (TA Dangerous Goods Regulation 56 th edition, 4.4 Special Provisions A197)
ADR: Classification code M6 Tunnel rest	

of 5 L o	e shipped as NON-RESTRICTED in single or combination packagings containing a net quantity per single or inner packaging or less. (ADR 2015 Volume 1, Chapter 3.3 Special Provisions 375) IEM CODE: ●3Z HIN: 90
SECTION 15: RE	GULATORY INFORMATION
15.1. Safety, heal	th and environmental regulations/legislation specific for the substance or mixture
15.1.1. National r	egulations
US EPA SARA TI	
312 Hazards:	Chemicals subject to reporting requirements of Section 313 of EPCRA and of 40 CFR 372:
Skin irritation Skin sensitization Germ cell mutage	None
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 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 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 SDS: Safety Data Sheet STEL: Short Term Exposure Limit
	STOT RE: Specific Target Organ Toxicity, Repeated Exposure STOT SE: Specific Target Organ Toxicity, Single Exposure TDG: Transportation of Dangerous Goods (Canada) TWA: Time Weighted Average US DOT: United States Department of Transportation WHMIS: Workplace Hazardous Materials Information System Other abbreviations and acronyms can be looked up at <u>www.wikipedia.org</u> .
Key literature refe and sources for o	

Classification:	Classification procedure
Skin Irrit. 2, H315	Calculation method
Skin Sens. 1, H317	Bridging principle "Dilution"
Muta. 2, H341	Bridging principle "Dilution"
Aquatic Chronic 2, H411	Calculation method
	H341: Suspected of causing genetic defects. H411: Toxic to aquatic life with long lasting effects.
Hazard nictogram names	Health hazard, exclamation mark, environment
	Health hazard, exclamation mark, environment.
Hazard pictogram names: Further information: No	
Further information: No	

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