

		SAFETY DATA	SHEET		
in	in accordance with 29 CFR 1910.1200, WHMIS 2022 and Safe Work Australia				
Revision date: 17 April 2025 Date of previous issue: 27 April 2021 SDS No. 235B-20					
SECTION 1: IDENTIFICAT		•	•	/UNDERTAKING	
1.1. Product identifier					
ARC 858 (Part B)					
1.2. Relevant identified us	es of the substa	ance or mixture and uses	advised against		
Relevant identified uses:			-	abrasion or erosion and chemica	
Uses advised against:	No information	on available			
Reason why uses advised	against: No	ot applicable			
1.3. Details of the supplier	of the safety da	ata sheet			
Company:		Suppl	ier:		
A.W. CHESTERTON COMPANY 860 Salem Street Groveland, MA 01834-1507, USA Tel. +1 978-469-6446 (Mon Fri. 8:30 - 5:00 PM EST) SDS requests: www.chesterton.com E-mail (SDS questions): ProductSDSs@chesterton.com E-mail: customer.service@chesterton.com					
Canada: A.W. Chesterton C Unit 105, Burlington, Ontario	b L7L 4X8 – Tel.				
1.4. Emergency telephone					
24 hours per day, 7 days per Call Infotrac: 1-800-535-50 Outside N. America: +1 352 NSW Poisons Information C	53 2-323-3500 (colle				
SECTION 2: HAZARDS ID	ENTIFICATION				
2.1. Classification of the s	ubstance or mix	xture			
2.1.1. Classification accor	ding to 29 CFR	1910.1200 / WHMIS 2022	/ Safe Work Australia	A / GHS	
Skin corrosion, Category 1E Serious eye damage, Categ Acute toxicity, Category 4, H Skin sensitization, Category	ory 1, H318 I302				
2.1.2. Additional information					
For full text of H-statements	: see SECTIONS	S 2.2 and 16.			
2.2. Label elements					
Labeling according to 29 (	CFR 1910.1200 /	WHMIS 2022 / Safe Wor	k Australia / GHS		
Hazard pictograms:		!>			
Signal word:	Danger				
Hazard statements:	H314 H302 H317	Causes severe skin bu Harmful if swallowed. May cause an allergic			

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Precautionary statements:	P305/351/338	Avoid breathing vapours. Wash skin thoroughly after handling. Do not eat, drink or smoke when using this product. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves/clothing and eye/face protection. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF SWALLOWED: rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse. Store locked up. Dispose of contents/container to an approved waste disposal plant.
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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 INGREDIENTS				
3.2. Mixtures				
Hazardous Ingredients <sup>1</sup>	% Wt.	CAS No.	GHS Classification	
1,2-Ethanediamine, N-(2-aminoethyl)-, reaction products with bisphenol A diglycidyl ether homopolymer	30-40	68411-71-2	Acute Tox. 4, H302	
Diethylenetriamine*	10-15	111-40-0	Acute Tox. 2, H330 Acute Tox. 4, H302/312 Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT SE 3, H335 Skin Sens. 1, H317	
Iron oxide	1-5	1317-61-9	Self-Heat. 2, H252	
Other ingredients <sup>1</sup> :				
Silicon carbide	30-40	409-21-2	Not classified**	
Silica (Quartz)	< 0.2	14808-60-7	Not classified**	

\*This component is toxic by inhalation if sprayed or if aerosol/mist is created. The mixture is neither present in aerosol form nor may aerosols occur.

\*\*Substance with a workplace exposure limit.

For full text of H-statements: see SECTION 16.

<sup>1</sup> 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 I	neasures		
	Inhalation:	Remove to fresh air. If not breathing, administer artificial respiration. Contact physician immediately.			
	Skin contact:	Flood area	with water while removing contaminated clothing. Contact physician.		
	Eye contact:	Flush eyes for at least 30 minutes with large amounts of water. Contact physician.			
	Ingestion:	Do not induce vomiting. If conscious, dilute stomach contents with large quantities of milk or water. Contact physician immediately.			
		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				

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

Corrosive to eyes, skin and mucous membranes, which can result in strong irritation, burning and tissue damage. Harmful if swallowed. Vapors can be severely irritating to the eyes and respiratory tract. Prolonged or repeated contact may cause asthma, skin sensitization and other allergic responses.

4.3. Indication of any immediate med	ical attentior	n and special tro	eatment needed	d		
Treat symptoms.						
SECTION 5: FIRE-FIGHTING MEASU	RES					
5.1. Extinguishing media						
	arbon dioxide	, dry chemical or	alcohol-resistar	nt foam		
• •	No data avail	•				
5.2. Special hazards arising from the						
Hazardous combustion products:		combustion may	form carbon mo	noxide. May ge	nerate: ammonia	a gas, toxic
Other hazards: Use of water may to enter drains or v	result in the f	ormation of very	toxic aqueous s	olutions. Do not	allow runoff fror	n firefighting
5.3. Advice for firefighters						
Recommend Firefighters wear self-cont	ained breathi	ng apparatus.				
Australian HAZCHEM Emergency Ac		3 Z				
SECTION 6: ACCIDENTAL RELEASE 6.1. Personal precautions, protective			procedures			
Evacuate area. Provide adequate ventil				protection on co	ocified in Section	n 8
Evacuate area. Provide adequate ventil 6.2. Environmental Precautions			s and personal	protection as sp	ecineu in Secilo	II U.
Keep out of sewers, streams and water	-					
6.3. Methods and material for contair		•				
Scoop up and transfer to a suitable con	tainer for disp	osal.				
6.4. Reference to other sections						
Refer to section 13 for disposal advice.						
SECTION 7: HANDLING AND STORA 7.1. Precautions for safe handling	GE					
Avoid all direct contact. Wash thorough	v oftor bondli	na Utilizo ovnog	ura controla ona	l porconal proto	otion on oncoific	d in Section
8. Remove contaminated clothing imme of the workplace. Contaminated leather with sodium nitrite or other nitrosating a smoke when using this product. Avoid c	diately. Wash including sho gents, which	n clothing before bes cannot be de could cause the	reuse. Contami contaminated a formation of car	nated work cloth nd should be dis ncer-causing nitr	ning must not be scarded. Do not rosamine. Do no	allowed out contaminate t eat, drink o
7.2. Conditions for safe storage, inclu	uding any in	compatibilities				
Store in a cool, dry area.						
7.3. Specific end use(s)						
No special precautions.						
SECTION 8: EXPOSURE CONTROLS		DROTECTION				
8.1. Control parameters		FROTECTION				
Occupational exposure limit values						
Ingredients	06n			H TLV <sup>2</sup>	AUSTRA	
ingredients	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
1,2-Ethanediamine, N-(2- aminoethyl)-, reaction products with bisphenol A diglycidyl ether	N/A	N/A	N/A	N/A	N/A	N/A
homopolymer Diethylenetriamine	1	4	1 (skin)	4.2	1 (skin)	4.2
Iron oxide	(total)	15	(total)	10	N/A	N/A
	(resp.)	5	(resp.)	3		10
Silicon carbide	(total) (resp.)	15 5	(total) (resp.)	10 3	N/A	10
Silica (Quartz)	(resp.)	0.05	(resp.)	0.025	(resp.)	0.05

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- <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> Safe Work Australia, Workplace Exposure Standards for Airborne Contaminants

#### **Biological limit values**

No biological exposure limits noted for the ingredient(s).

## 8.2. Exposure controls

## 8.2.1. Engineering measures

Provide sufficient ventilation to keep the vapor concentrations below the exposure limit. Provide readily accessible eye wash stations and safety showers. 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. In case of insufficient ventilation, wear suitable respiratory equipment (e.g.,
	EN filter type A-P2).

**Protective gloves:** Chemical resistant gloves (e.g., nitrile rubber, butyl rubber, neoprene, PVC)

Diethylenetriamine:

Contact type	Glove material	Layer thickness	Breakthrough time*	
Full	neoprene	0.65 mm	> 480 min.	
Splash	natural rubber	0.6 mm	> 60 min.	
*Determined according to EN374 standard.				

Eye and face protection:

Other:

## Full face shield with goggles underneath.

Impervious clothing as necessary to prevent skin contact.

## 8.2.3. Environmental exposure controls

Refer to sections 6 and 12.

#### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties					
Physical state	paste	рН	not applicable		
Colour	black	Kinematic viscosity	62K - 113K cSt @ 25°C		
			(calculated)		
Odour	amine odor	Solubility in water	negligible		
Odour threshold	not determined	Partition coefficient	not applicable		
		n-octanol/water (log value)			
Boiling point or range	not applicable	Vapour pressure @ 20°C	not applicable		
Melting point/freezing point	not determined	Density and/or relative density	1.6 kg/l		
% Volatile (by volume)	< 1%	Weight per volume	9.07 lbs/gal.		
Flammability	not determined	Vapour density (air=1)	> 1		
Lower/upper flammability or	not determined	Rate of evaporation (ether=1)	< 1		
explosion limits					
Flash point	> 209°C (>392°F)	% Aromatics by weight	0%		
Method	Closed Cup	Particle characteristics	not applicable		
Autoignition temperature	not determined	Explosive properties	not applicable		
Decomposition temperature	not determined	Oxidising properties	not applicable		

9.2. Other information

Dynamic viscosity: 100K - 180K cps @ 25°C

## 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

Open flames and red hot surfaces.

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## 10.5. Incompatible materials

Strong acids and strong oxidizers like liquid Chlorine and concentrated Oxygen. Reaction with peroxides may result in violent decomposition of peroxide possibly creating an explosion.

#### 10.6. Hazardous decomposition products

Nitric acid, NOx, Ammonia, Carbon Monoxide, Carbon Dioxide, nitrosamines and other toxic fumes.

SECTION 11: TOXICOLOGIC	AL INFORMATION				
11.1. Information on toxicolog	gical effects				
Primary route of exposure under normal use: Acute toxicity -	Inhalation, skin and eye contact. Personnel with pre-existing asthma, chronic respiratory disease and skin and eye conditions are generally aggravated by exposure.				
Oral:	If ingested, severe burns of the mouth and oesophagus and the stomach. Harmful if s				
	Substance	Test	Result		
	1,2-Ethanediamine, N-(2-aminoethyl)-, reaction products with bisphenol A diglycidyl ether homopolymer	LD50, rat	200-500 mg/kg		
	Diethylenetriamine	LD50, rat	1080 mg/kg		
	Silicon carbide	LD50, rat	> 3000 mg/kg		
Dermal:	ATE-mix = 7730 mg/kg.				
	Substance	Test	Result		
	Diethylenetriamine	LD50, rabbit	1090 mg/kg		
	Silicon carbide	LD50, rabbit	> 3000 mg/kg		
Inhalation:	Vapors can be severely irritating to the ey	es and respiratory tract.			
	Substance	Test	Result		
	Diethylenetriamine	LC50, rat, 4 h	No mortality at vapor saturation level		
Skin corrosion/irritation:	Causes burns.				
	Substance	Test	Result		
	Diethylenetriamine	Skin irritation, rabbit	Corrosive		
Serious eye damage/ rritation:	Causes serious eye damage.				
	Substance	Test	Result		
	Diethylenetriamine	Eye irritation	Corrosive		
Respiratory or skin sensitisation:	Prolonged or repeated contact may cause responses.	asthma, skin sensitization	and other allergic		
	Substance	Test	Result		
	Diethylenetriamine	Skin sensitization,	Sensitizing		
		guinea pig			
Germ cell mutagenicity:	Diethylenetriamine, Silicon carbide: based met.	l on available data, the clas	ssification criteria are not		
Carcinogenicity:	The International Agency for Research on (NTP) have classified inhaled silica as a h separate from the mixture or in of itself be in normal use.	uman carcinogen. The silic	ca in this product does not		
Reproductive toxicity:	Diethylenetriamine, Silicon carbide: not ex	pected to cause toxicity.			
STOT – single exposure:	Diethylenetriamine: May cause respiratory				
STOT – repeated exposure:	Diethylenetriamine, Silicon carbide: based on available data, the classification criteria are not met.				
Aspiration hazard:	Based on available data, the classification criteria are not met.				
Other information:	None known				

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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

Many aquatic species are intolerant to corrosive material such as the unreacted curing agent.

### 12.2. Persistence and degradability

Unreacted components (Parts A and B), improperly released to the environment, can cause ground and water pollution. Diethylenetriamine: expected to be resistant to biodegradation. Silicon carbide, Iron oxide, Silica (Quartz): inorganic substances.

#### 12.3. Bioaccumulative potential

Diethylenetriamine: bioconcentration in aquatic organisms is not expected to be significant (log Kow: -2.13).

#### 12.4. Mobility in soil

Liquid. Slightly soluble in water. In determining environmental mobility, consider the product's physical and chemical properties (see Section 9). Diethylenetriamine: expected to be highly mobile in soil.

## 12.5. Endocrine disrupting properties

None known

## 12.6. Other adverse effects

None known

## SECTION 13: DISPOSAL CONSIDERATIONS

#### 13.1. Waste treatment methods

2649waste. Combine resin and curative. The final cured material is considered nonhazardous. Landfill sealed containers with stabilized and solidified liquids with a properly licensed facility. 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 or ID number			
ADG/ADR/RID/ADN/IMDG/ICAO:	UN2735		
TDG:	UN2735		
US DOT:	UN2735		
14.2. UN proper shipping name			
ADG/ADR/RID/ADN/IMDG/ICAO:	AMINES, LIQUID, CORROSIVE, N.O.S. (CONTAINS 2,2'-IMINODIETHYLAMINE)		
TDG:	AMINES, LIQUID, CORROSIVE, N.O.S. (CONTAINS 2,2'-IMINODIETHYLAMINE)		
US DOT:	AMINES, LIQUID, CORROSIVE, N.O.S. (CONTAINS 2,2'-IMINODIETHYLAMINE)		
14.3. Transport hazard class(es)			
ADG/ADR/RID/ADN/IMDG/ICAO:	8		
TDG:	8		
US DOT:	8		
14.4. Packing group			
ADG/ADR/RID/ADN/IMDG/ICAO:	II		
TDG:	II		
US DOT:	II		
14.5. Environmental hazards			
NO			
14.6. Special precautions for user			
NO SPECIAL PRECAUTIONS FOR USE	ER		
14.7. Maritime transport in bulk accordin	ng to IMO instruments		
NOT APPLICABLE			
14.8. Other information			
<b>US DOT:</b> ERG NO. 153			
MAY BE SHIPPED AS LIMITED QUANTITIES IN PACKAGING HAVING A RATED CAPACITY GROSS WEIGHT OF 66 LB. OR LESS			
AND IN INNER PACKAGES NOT OVER 1 LITER (49 CFR 173.154 (B),(1))			
IMDG: EMS F-A, S-B, IMDG SEGREGATION GROUP 18-ALKALIS			
ADR: CLASSIFICATION CODE C7, TRANSPORT CATEGORY 2, TUNNEL RESTRICTION CODE (E)			
ADG HAZCHEM CODE : 2X HIN: 88/80			

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SECTION 15: REC	SECTION 15: REGULATORY INFORMATION				
	h and environmental regulations/legislation specific for the substance or mixture				
15.1.1. National regulations					
US EPA SARA TITLE III					
312 Hazards:	Chemicals subject to reporting requirements of Section 313 of EPCRA and of 40 CFR 372:				
Skin corrosion Serious eye damag	ge				
Acute toxicity Skin sensitization					
TSCA: All chemical	I components are listed or exempted.				
Other national reg	gulations: None				
	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				
	NOEC. 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 www.wikipedia.org.				
Key literature refe and sources for da	ata: Chemical Classification and Information Database (CCID)   European Chemicals Agency (ECHA) - Information on Chemicals   Hazardous Chemical Information System (HCIS)   National Institute of Technology and Evaluation (NITE)				
	U.S. National Library of Medicine Toxicology Data Network (TOXNET)				

Procedure used to derive t	he classificat	ion for mixtures according to GHS:	
Classification	Classification procedure		
Skin Corr. 1B, H314			
Eye Dam. 1, H318		Calculation method	
Acute Tox. 4, H302		Calculation method	
Skin Sens. 1, H317		Bridging principle "Dilution"	
Relevant H-statements:	Relevant H-statements:H252: Self-heating in large quantities; may catch fire. H302: Harmful if swallowed. H312: Harmful in contact with skin. H314: Causes severe skin burns and eye damage. H317: May cause an allergic skin reaction. H318: Causes serious eye damage. H330: Fatal if inhaled. H335: May cause respiratory irritation.		
Hazard pictogram names:	Corrosion,	exclamation mark	
Further information: N	Further information: None		
Date of last revision: 17 April 2025			
Changes to the SDS in this revision: Sections 1.2, 1.3, 2.1, 2.2, 3, 5.2, 8.1, 9.1, 9.2, 10.5, 10.6, 12.2, 12.5, 13, 15, 16.			
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.			