

**SAFETY DATA SHEET**

in accordance with 29 CFR 1910.1200, WHMIS 2015 and Safe Work Australia

**Revision date:** 8 March 2024

**Date of previous issue:** 6 July 2022

**SDS No.** 236B-26

**SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**

**1.1. Product identifier**

ARC BX1 (Part B)

**1.2. Relevant identified uses of the substance or mixture and uses advised against**

**Relevant identified uses:** Repair damage caused by impact, abrasion, erosion or corrosion; rebuild worn areas; fill holes and cracks; provide abrasion resistant surfaces.

**Uses advised against:** No information available

**Reason why uses advised against:** Not applicable

**1.3. Details of the supplier of the safety data sheet**

**Company:**

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](http://www.chesterton.com)  
E-mail (SDS questions): [ProductSDSs@chesterton.com](mailto:ProductSDSs@chesterton.com)  
E-mail: [customer.service@chesterton.com](mailto:customer.service@chesterton.com)

**Supplier:**

Canada: A.W. Chesterton Company Ltd., 889 Fraser Drive,  
Unit 105, Burlington, Ontario L7L 4X8 – Tel. 905-335-5055

**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)  
NSW Poisons Information Centre (Australia): 13 11 26

**SECTION 2: HAZARDS IDENTIFICATION**

**2.1. Classification of the substance or mixture**

**2.1.1. Classification according to 29 CFR 1910.1200 / WHMIS 2015 / Safe Work Australia / GHS**

Skin corrosion, Category 1B, H314  
Serious eye damage, Category 1, H318  
Skin sensitization, Category 1, H317

**2.1.2. Additional information**

For full text of H-statements: see SECTIONS 2.2 and 16.

**2.2. Label elements**

**Labeling according to 29 CFR 1910.1200 / WHMIS 2015 / Safe Work Australia / GHS**

**Hazard pictograms:**



**Signal word:**

Danger

**Hazard statements:**

H314 Causes severe skin burns and eye damage.  
H317 May cause an allergic skin reaction.

<b>Precautionary statements:</b>	P261	Avoid breathing vapours.
	P272	Contaminated work clothing must not be allowed out of the workplace.
	P280	Wear protective gloves/clothing and eye/face protection.
	P303/361/353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
	P305/351/338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
	P301/330/331	IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
	P310	Immediately call a POISON CENTER or doctor.
	P333/313	If skin irritation or rash occurs: Get medical advice/attention.
	P363	Wash contaminated clothing before reuse.
	P405	Store locked up.
	P501	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 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	10 - 20	68411-71-2	Acute Tox. 4, H302
Diethylenetriamine*	3 - 7	111-40-0	Acute Tox. 2, H330 Acute Tox. 4, H302/H312 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1B, H317 STOT SE 3, H335
Benzyl alcohol	1 - 5	100-51-6	Acute Tox. 4, H302/332 Eye Irrit. 2, H319

Other ingredients:

Aluminum oxide	45 - 55	1344-28-1	Not classified <sup>a</sup>
Silicon carbide	15 - 25	409-21-2	Not classified <sup>a</sup>
Titanium dioxide**	0.5 - <1	13463-67-7	Not classified <sup>a</sup>
Silica (Quartz)	0.1 - 0.3	14808-60-7	Not classified <sup>a</sup>

\*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.

\*\*Contains less than 1 % of particles with aerodynamic diameter ≤ 10 µm.

<sup>a</sup> 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 2015, Safe Work Australia, GHS

## SECTION 4: FIRST AID MEASURES

### 4.1. Description of first aid measures

<b>Inhalation:</b>	Remove to fresh air. If not breathing, administer artificial respiration. Contact physician.
<b>Skin contact:</b>	Flood area with water while removing contaminated clothing. Wash clothing before reuse. Consult physician.
<b>Eye contact:</b>	Flush eyes for at least 30 minutes with large amounts of water. Consult physician.
<b>Ingestion:</b>	If person is conscious, rinse mouth with water. Do not induce vomiting without medical advice. Contact physician immediately.
<b>Protection of first-aiders:</b>	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

Direct contact will cause burns to skin, eyes and mucous membranes. High vapor concentrations may cause respiratory tract irritation. May cause skin sensitization as evidenced by rashes or hives.

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

Treat symptoms.

**SECTION 5: FIRE-FIGHTING MEASURES****5.1. Extinguishing media**

**Suitable extinguishing media:** Carbon dioxide, dry chemical, dry sand, limestone powder, alcohol-resistant foam or water fog

**Unsuitable extinguishing media:** No data available

**5.2. Special hazards arising from the substance or mixture**

**Hazardous combustion products:** Incomplete combustion may form carbon monoxide. May generate: ammonia gas, toxic nitrogen oxide gases.

**Other hazards:** Do not allow runoff from firefighting to enter drains or water courses.

**5.3. Advice for firefighters**

Cool exposed containers with water. Recommend Firefighters wear self-contained breathing apparatus. A face shield should be worn.

**Australian HAZCHEM Emergency Action Code:** ●2 Z

**SECTION 6: ACCIDENTAL RELEASE MEASURES****6.1. Personal precautions, protective equipment and emergency procedures**

Evacuate area. Provide adequate ventilation. Avoid skin contact. Utilize exposure controls and personal protection as specified in Section 8.

**6.2. Environmental Precautions**

No special requirements.

**6.3. Methods and material for containment and cleaning up**

Scoop up and transfer to a suitable container for disposal. Flush final traces of spill with water.

**6.4. Reference to other sections**

Refer to section 13 for disposal advice.

**SECTION 7: HANDLING AND STORAGE****7.1. Precautions for safe handling**

Utilize exposure controls and personal protection as specified in Section 8. Wash thoroughly after handling. Remove contaminated clothing immediately. Wash clothing before reuse. Contaminated leather including shoes cannot be decontaminated and should be discarded. Do not contaminate with sodium nitrite or other nitrosating agents, which could cause the formation of cancer-causing nitrosamine. Avoid creating and breathing dust during removal, drilling, grinding, sawing or sanding. Keep container closed when not in use.

**7.2. Conditions for safe storage, including any incompatibilities**

Store in 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>		AUSTRALIA ES <sup>3</sup>	
	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 homopolymer	N/A	N/A	N/A	N/A	N/A	N/A
Diethylenetriamine	1 (Table Z-1-A)	4	1 (skin)	N/A	1 (skin)	4.2
Benzyl alcohol	N/A	N/A	N/A	N/A	N/A	N/A
Aluminum oxide	(total)	15	(resp.)	1	N/A	10
Silicon carbide	(total)	15	(total)	10	N/A	10
	(resp.)	5	(resp.)	3		
Titanium dioxide	N/A	15	N/A	10	N/A	10
Silica (Quartz)	(resp.)	0.05	(resp.)	0.025	(resp.)	0.05

<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 limits. If necessary, provide local exhaust. 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, utilize an approved organic vapor respirator (e.g., EN filter type A/P).

**Protective gloves:** Chemical resistant gloves (e.g., butyl rubber, neoprene or 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:** Safety goggles.

**Other:** 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**

<b>Physical state</b>	gritty paste	<b>pH</b>	not applicable
<b>Colour</b>	light gray	<b>Kinematic viscosity</b>	400-800K cSt 25°C
<b>Odour</b>	amine	<b>Solubility in water</b>	slightly soluble
<b>Odour threshold</b>	not determined	<b>Partition coefficient n-octanol/water (log value)</b>	not applicable
<b>Boiling point or range</b>	not determined	<b>Vapour pressure @ 20°C</b>	not determined
<b>Melting point/freezing point</b>	not determined	<b>Density and/or relative density</b>	2.45 kg/l
<b>% Volatile (by volume)</b>	0%	<b>Weight per volume</b>	20.37 lbs/gal.
<b>Flammability</b>	not applicable	<b>Vapour density (air=1)</b>	> 1
<b>Lower/upper flammability or explosion limits</b>	not applicable	<b>Rate of evaporation (ether=1)</b>	< 1
<b>Flash point</b>	99°C (211°F)	<b>% Aromatics by weight</b>	not determined
<b>Method</b>	PM Closed Cup	<b>Particle characteristics</b>	not applicable
<b>Autoignition temperature</b>	not determined	<b>Explosive properties</b>	not applicable
<b>Decomposition temperature</b>	not determined	<b>Oxidising properties</b>	not applicable

**9.2. Other information**

Dynamic viscosity: 1-2 million cPs @ 25°C

**SECTION 10: STABILITY AND REACTIVITY****10.1. Reactivity**

Refer to sections 10.3 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**

Open flames and high temperatures.

**10.5. Incompatible materials**

Strong acids and strong oxidizers like liquid Chlorine and concentrated Oxygen, reactive metals.

**10.6. Hazardous decomposition products**

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

**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 asthma, chronic respiratory disease and skin and eye conditions are generally aggravated by exposure.

**Acute toxicity -****Oral:**

May be harmful if swallowed. ATE-mix = 3,660.4 mg/kg

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	1,553 mg/kg
Benzyl alcohol	LD50, rat	1,620 mg/kg
Titanium dioxide	LD50, rat	> 10,000 mg/kg

**Dermal:**

Based on available data on components, the classification criteria are not met. ATE-mix = 20,311.4 mg/kg

Substance	Test	Result
Diethylenetriamine	LD50, rabbit	1,045 mg/kg
Benzyl alcohol	LD50, rabbit	> 2,000 mg/kg

<b>Inhalation:</b>	High vapor concentrations may cause respiratory tract irritation. ATE-mix = 400 mg/l (vapour).									
	<table border="1"> <thead> <tr> <th>Substance</th> <th>Test</th> <th>Result</th> </tr> </thead> <tbody> <tr> <td>Diethylenetriamine</td> <td>LC50, rat, 4 h</td> <td>No mortality at vapor saturation level</td> </tr> <tr> <td>Benzyl alcohol</td> <td>LC50, rat, 4 h</td> <td>11 mg/l (vapour, cATpE)</td> </tr> </tbody> </table>	Substance	Test	Result	Diethylenetriamine	LC50, rat, 4 h	No mortality at vapor saturation level	Benzyl alcohol	LC50, rat, 4 h	11 mg/l (vapour, cATpE)
Substance	Test	Result								
Diethylenetriamine	LC50, rat, 4 h	No mortality at vapor saturation level								
Benzyl alcohol	LC50, rat, 4 h	11 mg/l (vapour, cATpE)								
<b>Skin corrosion/irritation:</b>	Causes burns.									
	<table border="1"> <thead> <tr> <th>Substance</th> <th>Test</th> <th>Result</th> </tr> </thead> <tbody> <tr> <td>Diethylenetriamine</td> <td>Skin irritation, rabbit</td> <td>Corrosive</td> </tr> </tbody> </table>	Substance	Test	Result	Diethylenetriamine	Skin irritation, rabbit	Corrosive			
Substance	Test	Result								
Diethylenetriamine	Skin irritation, rabbit	Corrosive								
<b>Serious eye damage/irritation:</b>	Risk of serious damage to eyes.									
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Substance	Test	Result								
Diethylenetriamine	Eye irritation, rabbit	Corrosive								
Benzyl alcohol	OECD 405	Irritating								
<b>Respiratory or skin sensitisation:</b>	May cause skin sensitization as evidenced by rashes or hives.									
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Substance	Test	Result								
Diethylenetriamine	Skin sensitization, guinea pig	Sensitizing								
<b>Germ cell mutagenicity:</b>	Diethylenetriamine, Benzyl alcohol, Titanium dioxide: based on available data, the classification criteria are not met.									
<b>Carcinogenicity:</b>	The International Agency for Research on Cancer (IARC) and the National Toxicology Program (NTP) have classified inhaled silica as a human carcinogen. 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.									
<b>Reproductive toxicity:</b>	Diethylenetriamine, Silicon carbide, Titanium dioxide: not expected to cause toxicity. Benzyl alcohol: based on available data, the classification criteria are not met.									
<b>STOT – single exposure:</b>	Diethylenetriamine: may cause respiratory irritation. Benzyl alcohol: based on available data, the classification criteria are not met.									
<b>STOT – repeated exposure:</b>	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. The silica in this product does not separate from the mixture or in of itself become air-borne, therefore it does not present a hazard in normal use. Benzyl alcohol, Diethylenetriamine: based on available data, the classification criteria are not met.									
<b>Aspiration hazard:</b>	Based on available data, the classification criteria are not met.									
<b>Other information:</b>	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**

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

**12.2. Persistence and degradability**

Diethylenetriamine: not readily biodegradable. Benzyl alcohol: readily biodegradable (OECD 301C, 301A). Unreacted components (Parts A and B), improperly released to the environment, can cause ground and water pollution.

**12.3. Bioaccumulative potential**

Diethylenetriamine, Benzyl alcohol: bioconcentration in aquatic organisms is not expected to be significant. Diethylenetriamine: log Kow = 2.13. Benzyl alcohol: log Kow = 1.1. low potential for bioaccumulation (bioconcentration factor < 100, estimated).

**12.4. Mobility in soil**

Paste. Slightly soluble in water. In determining environmental mobility, consider the product's physical and chemical properties (see Section 9). Diethylenetriamine, Benzyl alcohol: expected to be highly mobile in soil (Benzyl alcohol, Koc, calculated: 15.7).

**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****14.1. UN number or ID number****ADG/ADR/RID/ADN/IMDG/ICAO:** UN3259**TDG:** UN3259**US DOT:** UN3259**14.2. UN proper shipping name****ADG/ADR/RID/ADN/IMDG/ICAO:** AMINES, SOLID, CORROSIVE, N.O.S. (CONTAINS 2,2'-IMINODIETHYLAMINE)**TDG:** AMINES, SOLID, CORROSIVE, N.O.S. (CONTAINS 2,2'-IMINODIETHYLAMINE)**US DOT:** AMINES, SOLID, 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 USERS

**14.7. Maritime transport in bulk according to IMO instruments**

NOT APPLICABLE

**14.8. Other information****US DOT:** ERG NO. 154

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 KG (49 CFR 173.154 (B),(1))

**IMDG:** EMS. F-A, S-B, IMDG SEGREGATION GROUP 18-ALKALIS**ADR:** CLASSIFICATION CODE C8, TUNNEL RESTRICTION CODE (E)**ADG HAZCHEM CODE:** 2X HIN: 88/80**SECTION 15: REGULATORY INFORMATION****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****15.1.1. National regulations****US EPA SARA TITLE III****312 Hazards:**Skin corrosion  
Serious eye damage  
Skin sensitization**Chemicals subject to reporting requirements of Section 313 of EPCRA and of 40 CFR 372:**

None

TSCA: All chemical components are listed or exempted.

Other national regulations: None

**SECTION 16: OTHER INFORMATION**

**Abbreviations and acronyms:** ADG: Australian Dangerous Goods Code  
 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 [www.wikipedia.org](http://www.wikipedia.org).

**Key literature references and sources for data:** Commission des normes, de l'équité, de la santé et de la sécurité du travail (CNESST)  
 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 the classification for mixtures according to GHS:**

Classification	Classification procedure
Skin Corr. 1B, H314	Calculation method
Eye Dam. 1, H318	Calculation method
Skin Sens. 1, H317	Calculation method

**Relevant H-statements:** 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.  
 H319: Causes serious eye irritation.  
 H330: Fatal if inhaled.  
 H332: Harmful if inhaled.  
 H335: May cause respiratory irritation.

**Hazard pictogram names:** Corrosion, exclamation mark

**Further information:** None

**Date of last revision:** 8 March 2024

**Changes to the SDS in this revision:** Complete change to represent new formulation.

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.