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Date : 15 Version : 1

: 15/10/2013

SAFETY DATA SHEET

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SECTION 1: Identification of the substance/mixture and of the company/ undertaking

1.1 Product identifier	
Product name	: 320
ADG	: -
Product code	: 320
Product description	: Not available.
Product type	: Solid.
Other means of identification	: Not available.

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

Refractory Ceramic Shape.

1.3 Details of the supplier of the safety data sheet

Supplier	: EMHART Glass Manufacturing Inc. 405 East Peach Street PO Box 580 Owensville MO 65066 USA Tel: +1 573 437 2132 Fax: +1 573 437 3146
e-mail address of person responsible for this SDS	: webmaster@emhartglass.com

1.4 Emergency telephone number

National advisory body/Poison Centre

Telephone number	: CHEMTREC, U.S. : 1-800-424-9300 International: +1-703-527-3887
Hours of operation	: 24/7

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition

: Mixture

GHS Classification Not classified.

Classification

Not regulated.

See Section 16 for the full text of the R phrases or H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

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SECTION 2: Hazards identification

2.2 Label elements

Signal word	:	No signal word.
Hazard statements	:	No known significant effects or critical hazards.
Precautionary statements		
Prevention	:	Not applicable.
Response	:	Not applicable.
Storage	:	Not applicable.
Disposal	:	Not applicable.
Risk phrases	:	Not classified.
Statement of hazardous/ dangerous nature	:	NON-HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS.

SECTION 3: Composition/information on ingredients

Substance/mixture	: Mixture			
	Classification			<u>ification</u>
Product/ingredient name	Identifiers	%	AU Classification	GHS Classification
Zircon	EC: 239-019-6 CAS: 14940-68-2	>=90	Not classified.	Not classified.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

See Section 16 for the full text of the R-phrases declared above.

See Section 16 for the full text of the H statements declared above.

SECTION 4: First aid measures

4.1 Description of first aid m	neasures
Eye contact	 Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 20 minutes, occasionally lifting the upper and lower eyelids.
Inhalation	: Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.
Skin contact	: In case of contact, immediately flush skin with plenty of water for at least 20 minutes while removing contaminated clothing and shoes.
Ingestion	: Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person.
Protection of first-aiders	: No special protection is required.

4.2 Most important symptoms and effects, both acute and delayed Potential acute health effects

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Eye contact	: No known significant effects or critical hazards.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: No known significant effects or critical hazards.
Ingestion	: No known significant effects or critical hazards.

Over-exposure signs/symptoms

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SECTION 4:	First aid	measures
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Eye contact	: No known significant effects or critical hazards.	
Inhalation	: No known significant effects or critical hazards.	
Skin contact	: No known significant effects or critical hazards.	
Ingestion	: No known significant effects or critical hazards.	

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician	 Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	: No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media	
Suitable extinguishing media	: Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: None known.
5.2 Special hazards arising fi	om the substance or mixture
Hazards from the substance or mixture	: No specific fire or explosion hazard.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: metal oxide/oxides
5.3 Advice for firefighters	
Special protective actions for fire-fighters	: No special precaution is required.
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures				
For non-emergency personnel	: Put on appropriate personal protective equipment.			
For emergency responders	:	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also Section 8 for additional information on hygiene measures.		
6.2 Environmental precautions	:	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).		

6.3 Methods and materials for containment and cleaning up

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SECTION 6: Accidental release measures

Spill	: Prevent entry into sewers, water courses, basements or confined areas. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.
6.4 Reference to other sections	: See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

7.1 Precautions for safe handling

Protective measures	: Put on appropriate personal protective equipment (see Section 8).
Advice on general occupational hygiene	: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. See also Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

7.3 Specific end use(s)	
Recommendations	: Not available.
Industrial sector specific solutions	: Not available.

SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

8.1 Control parameters

Occupational exposure limits

Ingredient name		Exposure limits	
Zircon		Safe Work Australia (Australia, 7/2012). STEL: 10 mg/m³, (as Zr) 15 minutes. TWA: 5 mg/m³, (as Zr) 8 hours.	
Recommended monitoring procedures	atmosphere or biologica of the ventilation or othe protective equipment. F standards. Reference t	ngredients with exposure limits, personal, workplace al monitoring may be required to determine the effectiveness er control measures and/or the necessity to use respiratory Reference should be made to appropriate monitoring o national guidance documents for methods for the ous substances will also be required.	

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SECTION 8: Exposure controls/personal protection

8.2 Exposure controls		
Appropriate engineering controls	: Good general ventilation should be sufficient to control worker exposure to airbor contaminants.	rne
Individual protection meas	<u>IS</u>	
Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period Ensure that eyewash stations and safety showers are close to the workstation location.	od.
Eye/face protection	: Safety eyewear complying with an approved standard should be used when a ris assessment indicates this is necessary to avoid exposure to liquid splashes, mis gases or dusts.	
Skin protection		
Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard sho be worn at all times when handling chemical products if a risk assessment indica this is necessary.	
Body protection	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.	K
Skin	: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.	e
Respiratory protection	: Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the prod and the safe working limits of the selected respirator.	uct
Environmental exposure controls	: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation	۱.

SECTION 9: Physical and chemical properties

9.1 Information on basic physic	al and chemical properties
<u>Appearance</u>	
Physical state	: Solid. [Stone.]
Colour	: Off-white.
Odour	: Odourless.
Odour threshold	: Not available.
рН	: Not available.
Melting point/freezing point	: Not available.
Initial boiling point and boiling range	: >2000°C
Flash point	: Not available.
Evaporation rate	: Not available.
Flammability (solid, gas)	: Not available.
Burning time	: Not applicable.
Burning rate	: Not available.
Upper/lower flammability or explosive limits	: Not applicable.
Vapour pressure	: Not available.



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SECTION 9: Physical and chemical properties

Vapour density	1	Not available.
Relative density	:	3.8
Solubility(ies)	:	Not soluble in water.
Solubility in water	:	Not available.
Partition coefficient: n-octanol/ water	:	Not available.
Auto-ignition temperature	:	Not available.
Decomposition temperature	:	Not available.
Viscosity	:	Not available.
Explosive properties	:	Not available.
Oxidising properties	:	Not available.

9.2 Other information

No additional information.

SECTION 10: Stability and reactivity				
10.1 Reactivity	: No specific test data related to reactivity available for this product or its ingredients.			
10.2 Chemical stability	: The product is stable.			
10.3 Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.			
10.4 Conditions to avoid	: No specific data.			
10.5 Incompatible materials	: Inert material.			
10.6 Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.			

SECTION 11: Toxicological information

11.1 Information on toxicological effects
Acute toxicity
There is no data available.
Irritation/Corrosion
There is no data available.
<u>Sensitisation</u>
There is no data available.
Specific target organ toxicity (single exposure)
There is no data available.
Specific target organ toxicity (repeated exposure)
There is no data available.
Aspiration hazard
There is no data available

I here is no data available.

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SECTION 11: Toxicological information

Information on the likely routes of exposure	:	Dermal contact. Eye contact. Inhalation. Ingestion.
Potential acute health effects		
Eye contact	:	No known significant effects or critical hazards.
Inhalation	:	No known significant effects or critical hazards.
Skin contact	:	No known significant effects or critical hazards.
Ingestion	:	No known significant effects or critical hazards.
Symptoms related to the phy	sic	al, chemical and toxicological characteristics
Eye contact	:	No known significant effects or critical hazards.
Inhalation	1	No known significant effects or critical hazards.
••••		

Innalation	: No known significant effects or critical nazards.
Skin contact	: No known significant effects or critical hazards.
Ingestion	: No known significant effects or critical hazards.

Delayed and immediate effects and also chronic effects from short and long term exposure

<u>Short term exposure</u>				
Potential immediate effects	: No known significant effects or critical hazards.			
Potential delayed effects	: No known significant effects or critical hazards.			
Long term exposure				
Potential immediate effects	: No known significant effects or critical hazards.			
Potential delayed effects	: No known significant effects or critical hazards.			
Potential chronic health effects				
General	: No known significant effects or critical hazards.			
Carcinogenicity	: No known significant effects or critical hazards.			
Mutagenicity	: No known significant effects or critical hazards.			
Teratogenicity	: No known significant effects or critical hazards.			
Developmental effects	: No known significant effects or critical hazards.			
Fertility effects	: No known significant effects or critical hazards.			

Other information

: Not available.

SECTION 12: Ecological information

12.1 Toxicity

There is no data available.

12.2 Persistence and degradability

There is no data available.

12.3 Bioaccumulative potential

There is no data available.



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SECTION 12: Ecological information

12.4 Mobility in soil	
Soil/water partition coefficient (K _{oc})	: Not available.
Mobility	: Not available.

12.5 Other adverse effects : No known significant effects or critical hazards.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Methods of disposal

: The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

14. Transport information

International transport regulations

Regulation	UN number	Proper shipping name	Classes	PG*	Label	Additional information
ADG	Not regulated.	-	-	-		-
IMDG	Not regulated.	-	-	-		-
ΙΑΤΑ	Not regulated.	-	-	-		-

PG* : Packing group

Exemption to the above classification may apply.

15. Regulatory information

15.1 Regulatory information

Standard Uniform Schedule of Medicine and Poisons

Not regulated.

Control of Scheduled Carcinogenic Substances

No listed substance

Australia inventory (AICS) : All components are listed or exempted.

SECTION 16: Other information

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS] Not classified.

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification			
Not classified.				



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SECTION 16: Other information

: Not applicable.
: Not applicable.
: Not applicable.
: Not applicable.
: KMK Regulatory Services Inc.
: 15/10/2013
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: Not applicable.

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