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 Date
 : 1

 Version
 : 1

: 15/10/2013

SAFETY DATA SHEET

300, 305, 310, 314, 315, 319

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

1.1 Product identifier	
Product name	: 300, 305, 310, 314, 315, 319
ADG	: -
Product code	: 300, 305, 310, 314, 315, 319
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

Aquatic Chronic 3, H412

Classification

Xi; R36/38

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	: Harmful to aquatic life with long lasting effects.
Precautionary statements	
Prevention	: P273 - Avoid release to the environment.
Response	: Not applicable.
Storage	: Not applicable.
Disposal	: P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Risk phrases	: R36/38- Irritating to eyes and skin.
Statement of hazardous/ dangerous nature	: HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS.

SECTION 3: Composition/information on ingredients

			Classification	
Product/ingredient name	Identifiers	%	AU Classification	GHS Classification
Aluminium oxide	EC: 215-691-6 CAS: 1344-28-1	>=35 - <50	Not classified.	Not classified.
Zirconium dioxide	EC: 215-227-2 CAS: 1314-23-4	>=25 - <35	Xi; R36/38	Not classified.
Zircon	EC: 239-019-6 CAS: 14940-68-2	>=15 - <20	Not classified.	Not classified.
Magnesium oxide	EC: 215-171-9 CAS: 1309-48-4	>=0.1 - <1	Not classified.	Aquatic Chronic 1, H410

Other ingredients, determined not to be hazardous according to Safe Work Australia criteria, and not dangerous according to the ADG Code, make up the product concentration to 100%.

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 measures 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. : In case of contact, immediately flush skin with plenty of water for at least 20 minutes **Skin contact** 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



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SECTION 4: First aid measures

Potential acute health e	ffects
Eye contact	: Irritating to eyes.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: Irritating to skin.
Ingestion	: No known significant effects or critical hazards.
Over-exposure signs/sy	mptoms
Eye contact	: Adverse symptoms may include the following: irritation watering redness
Inhalation	: No known significant effects or critical hazards.
Skin contact	: Adverse symptoms may include the following: irritation redness
Ingestion	: No known significant effects or critical hazards.
4.3 Indication of any imm	ediate medical attention and special treatment needed
Notes to physician	: Treat symptomatically. Contact poison treatment specialist immediately if large

Specific treatments	: No specific treatment.
OFOTION E. Firefie	hting magazing

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	fron	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.	

quantities have been ingested or inhaled.



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SECTION 6: Accidental release measures

6.1 Personal precautions, prote	ective equipment and emergency procedures
For non-emergency : personnel	Put on appropriate personal protective equipment (see Section 8).
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
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). Do not ingest. Avoid contact with eyes, skin and clothing. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
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.



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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
Aluminium oxide Zirconium dioxide Zircon		Safe Work Australia (Australia, 7/2012).TWA: 10 mg/m³ 8 hours.Safe Work Australia (Australia, 7/2012).STEL: 10 mg/m³, (as Zr) 15 minutes.TWA: 5 mg/m³, (as Zr) 8 hours.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 of the ventila protective eq standards. F	t contains ingredients with exposure limits, personal, workplace or biological monitoring may be required to determine the effectiveness tion or other control measures and/or the necessity to use respiratory juipment. Reference should be made to appropriate monitoring Reference to national guidance documents for methods for the n of hazardous substances will also be required.
8.2 Exposure controls		
Appropriate engineering controls	: Good generation contaminant	al ventilation should be sufficient to control worker exposure to airborne is.
Individual protection measu	<u>ires</u>	
Hygiene measures	before eating	s, forearms and face thoroughly after handling chemical products, g, drinking, smoking and using the lavatory and at the end of the od. Ensure that eyewash stations and safety showers are close to the location.
Eye/face protection		ear complying with an approved standard should be used when a risk indicates this is necessary to avoid exposure to liquid splashes, mists, sts.
Skin protection		
Hand protection		sistant, impervious gloves complying with an approved standard should Il times when handling chemical products if a risk assessment indicates sary.
Body protection	being perfor	otective equipment for the body should be selected based on the task med and the risks involved and should be approved by a specialist ling this product.
Skin	selected bas	footwear and any additional skin protection measures should be sed on the task being performed and the risks involved and should be a specialist before handling this product.
Respiratory protection	standard if a must be bas	rly fitted, particulate filter respirator complying with an approved risk assessment indicates this is necessary. Respirator selection sed on known or anticipated exposure levels, the hazards of the product working limits of the selected respirator.
Environmental exposure controls		rom ventilation or work process equipment should be checked to comply with the requirements of environmental protection legislation.

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Appearance		
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.
Vapour density	:	Not available.
Relative density	:	2 to 3.1
Solubility(ies)	:	Not soluble.
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: Stabil	CTION 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.			

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SECTION 10: Stabili	ty and reactivity
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: Toxico	ological information
11.1 Information on toxicolo	ogical effects
Acute toxicity	
There is no data available.	
Irritation/Corrosion	
There is no data available.	
Sensitisation	
There is no data available.	
Specific target organ toxic	<u>ity (single exposure)</u>
There is no data available.	
Specific target organ toxic	ity (repeated exposure)
There is no data available.	
Aspiration hazard	
There is no data available.	
Information on the likely routes of exposure	: Dermal contact. Eye contact. Inhalation. Ingestion.
Potential acute health effec	<u>ts</u>
Eye contact	: Irritating to eyes.

- Inhalation: No known significant effects or critical hazards.Skin contact: Irritating to skin.Ingestion: No known significant effects or critical hazards.
- Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	: Adverse symptoms may include the following: irritation watering redness
Inhalation	: No known significant effects or critical hazards.
Skin contact	: Adverse symptoms may include the following: irritation redness
Ingestion	: No known significant effects or critical hazards.

Delayed and immediate effects and also chronic effects from short and long term exposure Short term exposure Potential immediate : No known significant effects or critical hazards. effects Potential delayed effects : No known significant effects or critical hazards. Long term exposure : No known significant effects or critical hazards.

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SECTION 11: Toxicological information

	-
Potential immediate effects	: No known significant effects or critical hazards.
Potential delayed effects	: No known significant effects or critical hazards.
Potential chronic health eff	ects
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.

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. Care should be taken when handling empty containers that have not been cleaned or rinsed out. Empty containers or linear meru retain a come product readiust.
	liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

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14. Transport information

International ti	ransport regulat	ions				
Regulation	UN number	Proper shipping name	Classes	PG*	Label	Additional information
ADG	Not regulated.	-	-	-		-
IMDG	Not regulated.	-	-	-		-
IATA	Not regulated.	-	-	-		-
DC* · Dealing	I					have alcosification may ann

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] Aquatic Chronic 3, H412

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

Classification		Justification		
Aquatic Chronic 3, H412		Calculation method		
Full text of abbreviated H statements	: H410 H412	Very toxic to aquatic life with long lasting effects. Harmful to aquatic life with long lasting effects.		
Full text of classifications [CLP/GHS]		LONG-TERM AQUATIC HAZARD - Category 1 LONG-TERM AQUATIC HAZARD - Category 3		
Full text of abbreviated R phrases	: R36/38- Irritating to eyes	R36/38- Irritating to eyes and skin.		
Full text of classifications [DSD/DPD]	: Xi - Irritant			
Person who prepared the MSDS	: KMK Regulatory Services	s Inc.		
History				
Date of issue	: 15/10/2013			
Version	: 1			
Revised Section(s)	: Not applicable.			

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.