SAFETY DATA SHEET



Section 1. Identif	ication
GHS product identifier	:
Other means of identification	: Not available.
Product type	: Solid.
Identified uses Not available.	
Supplier's details	:
Emergency telephone number (with hours of operation)	: CHEMTREC, U.S. : 1-800-424-9300 International: +1-703-527-3887 (24/7)
Section 2. Hazard	Is identification
OSHA/HCS status	: While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.
Classification of the substance or mixture	: Not classified.
GHS label elements	
Signal word	: No signal word.
Hazard statements	: No known significant effects or critical hazards.
Precautionary statements	
General	 Read label before use. Keep out of reach of children. If medical advice is needed, have product container or label at hand.
Prevention	: Not applicable.
Response	: Not applicable.
Storage	: Not applicable.
Disposal	: Not applicable.
Hazards not otherwise classified	: None known.



Section 3. Composition/information on ingredients

Substance/mixture
Other means of

: Mixture

: Not available.

CAS number/other identifiers

identification

: Not applicable.

Product code

Ingredient name	%	CAS number
	10 - 30 10 - 30	1313-59-3 1305-78-8

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

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.

Section 4. First aid measures

Description of necessary first aid measuresEye contact: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower
eyelids. Check for and remove any contact lenses. Get medical attention if irritation
occurs.Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get
medical attention if symptoms occur.Skin contact: Flush contaminated skin with plenty of water. Get medical attention if symptoms occur.Ingestion: Wash out mouth with water. Remove victim to fresh air and keep at rest in a position
comfortable for breathing. If material has been swallowed and the exposed person is
conscious, give small quantities of water to drink. Do not induce vomiting unless
directed to do so by medical personnel. Get medical attention if symptoms occur.

Most important symptoms/e	effects, acute and delayed
Potential acute health effe	<u>cts</u>
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/sym	<u>otoms</u>
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.
Indication of immediate me	dical attention and special treatment needed, if necessary
Notes to physician	 Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	: No specific treatment.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training.



Section 4. First aid measures

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media	
Suitable extinguishing media	: Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: None known.
Specific hazards arising from the chemical	: No specific fire or explosion hazard.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: metal oxide/oxides
Special protective actions for fire-fighters	: No special measures are 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

Personal precautions, protec	tiv	e equipment and emergency procedures
For non-emergency personnel	:	No action shall be taken involving any personal risk or without suitable training. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.
For emergency responders	:	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Environmental precautions	:	Avoid dispersal of spilled 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).
Methods and materials for co	nt	ainment and cleaning up
Small spill	:	Move containers from spill area. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.
Large spill	:	Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, 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.

Section 7. Handling and storage

Precautions for safe handling Protective measures Advice on general occupational hygiene constructional hygiene Protective measures Advice on general occupational hygiene Protective measures Protective measures

Section 7. Handling and storage

Conditions for safe storage,	: Store in accordance with local regulations. Store in original container protected from	
including any	direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials	;
incompatibilities	(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 unlabeled containers. Use appropriate containment to avoid environmental contamination.	

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name		Exposure limits	
Calcium oxide		ACGIH TLV (United States, 4/2014). TWA: 2 mg/m ³ 8 hours. NIOSH REL (United States, 10/2013). TWA: 2 mg/m ³ 10 hours. OSHA PEL (United States, 2/2013). TWA: 5 mg/m ³ 8 hours.	
Appropriate engineering controls	: Good general ventilatio contaminants.	n should be sufficient to control worker exposure to airborne	
Environmental exposure controls		ion or work process equipment should be checked to ensure quirements of environmental protection legislation.	
Individual protection meas	<u>ures</u>		
Hygiene measures	eating, smoking and us Appropriate techniques	and face thoroughly after handling chemical products, before ing the lavatory and at the end of the working period. should be used to remove potentially contaminated clothing. othing before reusing. Ensure that eyewash stations and safety e workstation location.	
Eye/face protection	assessment indicates t gases or dusts. If conta	ing with an approved standard should be used when a risk his is necessary to avoid exposure to liquid splashes, mists, act is possible, the following protection should be worn, unless es a higher degree of protection: safety glasses with side-	
Skin protection			
Hand protection		pervious gloves complying with an approved standard should be handling chemical products if a risk assessment indicates this is	
Body protection		uipment for the body should be selected based on the task being s involved and should be approved by a specialist before	
Other skin protection		nd any additional skin protection measures should be selected g performed and the risks involved and should be approved by a ng this product.	
Respiratory protection	a risk assessment indic	articulate filter respirator complying with an approved standard if cates this is necessary. Respirator selection must be based on consure levels, the hazards of the product and the safe working spirator.	

Section 9. Physical and chemical properties

Appearance

Physical state	: Solid.	
Color	: Tan pellets or beads, white powder or cake.	
Odor	: Odorless.	
Odor threshold	: Not available.	
рН	: Aqueous slurry 8 to 11	
Melting point	: Not available.	
Boiling point	: Not available.	
Flash point	: Not available.	
Evaporation rate	: Not available.	
Flammability (solid, gas)	: Not available.	
Lower and upper explosive (flammable) limits	: Not available.	
Vapor pressure	: Not available.	
Vapor density	: Not available.	
Relative density	: Not available.	
Solubility	: Not available.	
Partition coefficient: n- octanol/water	: Not available.	
Auto-ignition temperature	: Not available.	
Decomposition temperature	: Not available.	
Viscosity	: Not available.	
Volatility	: Not available.	

Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: No specific data.
Incompatible materials	: Reactive or incompatible with the following materials: oxidizing materials, acids and moisture.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.



Section 11. Toxicological information

	- 3								
Information on toxicological e	<u>ffects</u>								
Acute toxicity									
There is no data available.									
Irritation/Corrosion									
There is no data available.									
Sensitization									
There is no data available.									
Carcinogenicity									
Classification									
Product/ingredient name	OSHA	IARC	NTP			AC	GIH	EPA	NIOSH
Silicon dioxide Aluminium oxide	-	3 -	-			- A4		-	-
Specific target organ toxicity	(single e	exposur	<u>e)</u>						
Name				Category	Route of exposure	-	Targ	et orga	ans
Calcium oxide				Category 3	Not applicable.	F	Respi	ratory tra	ct irritation
Specific target organ toxicity	(repeate	d expos	sure)	<u> </u>	4				
There is no data available.									
Aspiration hazard									
There is no data available.									
Information on the likely routes of exposure	: Not av	ailable.							
Potential acute health effects									
Eye contact	: No kn	own sigr	nificant effects	s or critical hazards	6.				
Inhalation	: No kn	own sigr	nificant effects	s or critical hazards	6.				
Skin contact	: No kn	own sigr	nificant effects	s or critical hazards	S.				
Ingestion	: No kn	own sigr	nificant effects	s or critical hazards	S.				
Symptoms related to the phys	sical, che	mical a	nd toxicolog	ical characteristi	<u>cs</u>				
Eye contact	: No kn	own sigr	nificant effects	s or critical hazards	3.				
Inhalation	: No kn	own sigr	nificant effects	s or critical hazards	3.				
Skin contact	: No kn	own sigr	nificant effects	s or critical hazards	5.				
Ingestion	: No kn	own sigr	nificant effects	s or critical hazards	S.				
Delayed and immediate effect	s and als	so chror	nic effects fro	om short and lon	a term exposure				
Short term exposure					<u> </u>	•			
Potential immediate effects	: No kn	own sigr	nificant effects	s or critical hazards	3.				
Potential delayed effects	: No kn	own sigr	nificant effects	s or critical hazards	6.				
Long term exposure		Ū							
Potential immediate effects	: No kn	own sigr	nificant effects	s or critical hazards	3.				
Potential delayed effects	: No kn	own sigr	nificant effects	s or critical hazards	3.				
	Т	el : +1-88	3-GHS-7769 (447	7-7769) / +1-450-GHS-	7767 (447-7767)				6/9

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Section 11. Toxicological information

Potential chronic health ef	fects
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.

Numerical measures of toxicity

Acute toxicity estimates

There is no data available.

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
Calcium oxide	0	Fish - Oreochromis niloticus - Juvenile (Fledgling, Hatchling, Weanling)	46 days

Persistence and degradability

There is no data available.

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Calcium oxide	-	2.34	low
Mobility in soil Soil/water partition coefficient (K _{oc})	: Not available.		

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

Section 13. Disposal considerations

Disposal methods : The generation of waste should be avoided or minimized 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 spilled material and runoff and contact with soil, waterways, drains and sewers.



Section 14. Transport information

	DOT Classification	IMDG	IATA
UN number	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-
Transport hazard class(es)	-	-	-
Packing group	-	-	-
Environmental hazards	No.	No.	No.
Additional information	-	-	-

AERG : Not applicable.

Special precautions for user : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according : Not available. to Annex II of MARPOL 73/78 and the IBC Code

Section 15. Regulatory information

U.S. Federal regulations	: TSCA 8(a) CDR Exempt/Partial exemption: Not determined United States inventory (TSCA 8b): All components are listed or exempted.
Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs)	: Not listed
Clean Air Act Section 602 Class I Substances	: Not listed
Clean Air Act Section 602 Class II Substances	: Not listed
DEA List I Chemicals (Precursor Chemicals)	: Not listed
DEA List II Chemicals (Essential Chemicals)	: Not listed
<u>SARA 302/304</u>	
Composition/information	n ingredients
No products were found.	

SARA 304 RQ

SARA 311/312

: Not applicable.

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Section 15. Regulatory information

Classification

: Immediate (acute) health hazard

Composition/information on ingredients

Name	%		Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
Disodium oxide Calcium oxide		No. No.	-	No. No.	Yes. Yes.	No. No.

SARA 313

	Product name	CAS number	%
Form R - Reporting requirements	Aluminium oxide	1344-28-1	30 - 60
Supplier notification	Aluminium oxide	1344-28-1	30 - 60

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

State regulations

Massachusetts	: The following components are listed: Silicon dioxide; Aluminium oxide; Calcium oxide
New York	: None of the components are listed.
New Jersey	: The following components are listed: Aluminium oxide; Calcium oxide
Pennsylvania	: The following components are listed: Silicon dioxide; Aluminium oxide; Calcium oxide
California Prop. 65	
No products were found.	

Section 16. Other information

<u>History</u>	
Date of issue mm/dd/yyyy	04/15/2015
Version	1
Revised Section(s)	Not applicable.
Prepared by	KMK Regulatory Services Inc.
Key to abbreviations	ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = Internediate Bulk Container IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) UN = United Nations

Notice to reader

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