SAFETY DATA SHEET

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

1.1. Product identifier		
Name of the substance	Aluminium hydroxide	
Trade name of the substance	HYDRATED ALUMINAS (GROUND AND UNGROUND)	
Identification number	21645-51-2 (CAS number)	
SDS number R	EF - 4	
Revision date	April 2015.	
Version number	01	
Synonyms	Alumina Trihydrate, Aluminum Trihydroxide ATH Series, Bayer Hydrated Alumina, C-30, KB-30, KC-30.	
REACH Registration Number	Aluminum hydroxide: Alúmina Española S.A 01-2119529246-39-0023.	
	This product is not classified according to current European Union regulations. Therefore, a Safety Data Sheet is not required. This Safety Data Sheet is being provided for informational purposes only.	
1.2. Relevant identified uses of	the substance or mixture and uses advised against	
Identified uses	Industrial use, further processing into a number of articles/products, aluminium oxide production	
Uses advised against	None known.	
1.3. Details of the supplier of the safety data sheet		
	Ma'aden Aluminium	
	Ras Al Khair Industrial City	
	PO Box 11342	
	Jubail Industrial City	
	Eastern Province	
	31961	
	Kingdom of Saudi Arabia	

Emergency Information CHEMTREC: +1-703-527-3887 +1-800-424-9300 (24 Hour Emergency Telephone, multiple languages spoken);

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification

This substance or mixture does not meet the criteria for classification as dangerous in accordance with Directives 67/548/EEC or 1999/45/EC and/or Regulation (EC) No 1272/2008 including all applicable amendments. Therefore, there is no legal obligation to provide this Safety Data Sheet. It is being provided for informational purposes only.

This preparation has been classified as not dangerous according to CHIP3. In addition, none of the components have been individually classified as dangerous nor have an occupational exposure limit. Therefore, a Safety Data Sheet is not required by the regulations. However, this Safety Data Sheet is being provided for informational purposes.

Classification according to Directive 67/548/EEC or 1999/45/EC as amended

This substance does not meet the criteria for classification according to Directive 67/548/EEC as amended.

Classification according to Regulation (EC) No 1272/2008 as amended

This substance does not meet the criteria for classification according to Regulation (EC) 1272/2008 as amended.

Physical hazards	Not classified for physical hazards.	
Health hazards	Not classified for health hazards.	
Environmental hazards	Not classified for hazards to the environment.	
Specific hazards	Non-combustible. Can cause mild irritation of eyes, skin and upper respiratory tract.	

Heating the material above 200°C will result in a sudden release of water vapor (steam).

Main symptoms	Mild eye irritation. Mild skin irritation. Upper respiratory tract irritation.	
2.2. Label elements		
Label according to Regulation	(EC) No. 1272/2008 as amended	
Contains:	Aluminium hydroxide	
Hazard pictograms	None.	
Signal word	None.	
Hazard statements	The substance does not meet the criteria for classification.	
Precautionary statements		
Prevention	Not applicable.	
Response	Not applicable.	
Storage	Keep dry.	
Disposal		
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.	
Supplemental label informatio	n None.	
2.3. Other hazards	None known.	
SECTION 3: Composition	/information on ingredients	
3.1. Substances		
Composition comments	Complete composition is provided below and may include some components classified as non-hazardous.	
General information		
Chemical name	% CAS-No. / EC No. REACH Registration No. INDEX No. Notes	
Aluminium hydroxide	99,5 21645-51-2 01-2119529246-39-0023 - 244-492-7 -	
Classification: D	SD: -	
С	LP: -	

SECTION 4: First aid measures

Not available. **General information**

4.1.	Description	of first aid	measures
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4.1. Description of mist alu meas		
Inhalation	Remove to fresh air. Check for clear airway, breathing, and presence of pulse. If breathing is difficult, provide oxygen. Loosen any tight clothing on neck or chest. Provide cardiopulmonary resuscitation for persons without pulse or respirations. Consult a physician.	
Skin contact	Wash off with warm water and soap. Get medical attention if irritation develops or persists.	
Eye contact	Rinse eyes with plenty of water or saline for at least 15 minutes. Get medical attention.	
Ingestion	If swallowed, dilute by drinking water. Recommend quantities up to 30 mL (~1 oz.) in children and 250 mL (~9 oz.) in adults. Never give anything by mouth to a victim who is unconscious or is having convulsions. Do NOT induce vomiting. Consult a physician.	
4.2. Most important symptoms and effects, both acute and delayed	Mild eye irritation. Mild skin irritation. Upper respiratory tract irritation.	
Medical conditions aggravated by exposure	Asthma, chronic lung disease and skin rashes.	
4.3. Indication of any immediate medical attention and special treatment needed	If breathing is difficult, give oxygen.	
SECTION 5: Firefighting m	easures	
General fire hazards	Non-combustible.	
5.1. Extinguishing media		
Suitable extinguishing media	Use fire fighting methods and materials that are appropriate for surrounding fire.	
Unsuitable extinguishing media	None known.	

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products	No hazardous decomposition products are known.
5.3. Advice for firefighters	
Special protective equipment for firefighters	Firefighters should wear CE approved, positive pressure, self- contained breathing apparatus and full protective clothing when appropriate.
Special fire fighting procedures	No specific fire fighting procedure given. Use standard firefighting procedures and consider the hazards of other involved materials.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures For non-emergency Avoid generating dust. Avoid contact with skin and eyes. Ensure adequate ventilation. Use personnel personal protection recommended in Section 8 of the SDS. For emergency responders Avoid generating dust. Avoid contact with skin and eyes. Ensure adequate ventilation. Use personal protection recommended in Section 8 of the SDS. No special environmental precautions required. 6.2. Environmental precautions 6.3. Methods and material for Return to containers using shovels, buckets or brooms. Clean up in accordance with all applicable regulations. containment and cleaning up 6.4. Reference to other For personal protection, see section 8. For waste disposal, see section 13. sections

SECTION 7: Handling and storage

7.1. Precautions for safe handling	Avoid generating dust. Avoid contact with skin and eyes. Use with adequate ventilation. Use personal protection recommended in Section 8 of the SDS.
7.2. Conditions for safe storage, including any incompatibilities	Keep material dry.
7.3. Specific end use(s)	Not available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

Material	Туре	Value	Form
HYDRATED ALUMINAS (GROUND AND UNGROUND)	TWA	3 mg/m3	Respirable fraction
,		10 mg/m3	Inhalable fraction
Components	Туре	Value	Form
ALUMINIUM HYDROXIDE (CAS 21645-51-2)	TWA	3 mg/m3	Respirable fraction
		10 mg/m3	Inhalable fraction
US ACGIH Threshold Limit V	alues: Time Weighted Average (TW	/A): mg/m3, non-standard uni	its
Material	Туре	Value	Form
HYDRATED ALUMINAS (GROUND AND UNGROUND)	TWA	1 mg/m3	Respirable fraction.
Components	Туре	Value	Form
ALUMINIUM HYDROXIDE (CAS 21645-51-2)	TWA	1 mg/m3	Respirable fraction.
ived No Effect Level (DNEL)	Aluminium hydroxide (21645-51-2)	Inhalation: 3,59 mg/m3	
dicted no effect centrations (PNECs)	Aluminum hydroxide (21645-51-2)	Vater: 74,9-17800 ug/L	
commended monitoring cedures	Follow standard monitoring procedures.		
Exposure controls			
propriate engineering htrols	Use with adequate ventilation to meet the limits listed in Section 8.		
ividual protection measures, s	such as personal protective equipn	nent	
General information	The need for personal protective equiprecommendations from health / safe		a hazard assessment and
Eye/face protection	Wear safety glasses with side shields. Use tight fitting goggles if excessive levels of dust are generated.		

Skin protection	
- Hand protection	Wear appropriate gloves to avoid any skin injury.
- Other	The need for personal protective equipment should be based upon a hazard assessment and recommendations from health / safety professionals.
Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment. Use CE-approved respiratory protection as specified by an Industrial Hygienist or other qualified professional. Suitable respiratory protective device recommended: P2.
Thermal hazards	Not applicable.
Hygiene measures	Handle in accordance with good industrial hygiene and safety practices. Wash hands before breaks and immediately after handling the product. When using, do not eat, drink or smoke.
Environmental exposure controls	Not available.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

5.1. Information on basic physic	ai ana enermeai properties
Appearance	
Physical state	Solid.
Form	Solid, powder, crystalline.
Colour	Off-white.
Odour	Odourless
Odour threshold	Not applicable
рН	8,5 - 10,2 (20% slurry in water)
Melting point/freezing point	300 °C (572 °F) / Not determined
Initial boiling point and boiling range	Not applicable
Flash point	Not applicable
Evaporation rate	Not applicable
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or exp	losive limits
Flammability limit - lower (%)	Not applicable
Flammability limit - upper (%)	Not applicable
Vapour pressure	Not applicable
	< 0 kPa at 25 °C
Vapour density	Not applicable
Relative density	Not determined
Solubility(ies)	Insoluble
Partition coefficient (n-octanol/water)	Not applicable.
Auto-ignition temperature	Not applicable
Decomposition temperature	Not available.
Viscosity	Not applicable
Explosive properties	Not applicable.
Oxidizing properties	Not available.
9.2. Other information N	lone known.
Bulk density	0,15 - 1,3
Density	2,42 g/cm3
Molecular weight	77,99 g/mol
VOC (Weight %)	0 % Not applicable
SECTION 10: Stability and	reactivity

10.1. Reactivity	None known.
10.2. Chemical stability	Stable under normal conditions of use, storage, and transportation.
10.3. Possibility of hazardous reactions	B Hazardous polymerisation does not occur.

10.4. Conditions to avoid	Heating the material above 200°C will result in a sudden release of water vapor (steam). Precautions must be taken to dissipate the vapor and any pressure that may be generated. A sudden increase in pressure could cause damage or explosion in enclosed equipment.		
10.5. Incompatible materials	None known.		
10.6. Hazardous decomposition products	No hazardous decomposition prod	ucts are known.	
SECTION 11: Toxicologica	al information		
General information	Not available.		
Health effects associated with i	ingredients		
Aluminium hydroxide: Low he	ealth risk by inhalation. Generally con	sidered to be biologically inert.	
	compounds formed during process Is are expected to be formed during p	-	
Information on likely routes of e		locessing.	
Ingestion	Can cause mild irritation.		
Inhalation	Can cause mild irritation of the upp	er respiratory tract	
Skin contact	Can cause mild irritation.		
Eye contact	Can cause mild irritation.		
Symptoms	Mild eye irritation. Mild skin irritatio	n. Upper respiratory tract irritation.	
11.1. Information on toxicologic	cal effects		
Acute toxicity	Not classified. Based on available	data, the classification criteria are not met.	
Product	Species	Test results	
HYDRATED ALUMINAS (GROUN	ND AND UNGROUND)		
Acute			
Oral			
LD50	Rat	> 5000 mg/kg	
Other			
LD50	Rat	1100 mg/kg	
Components	Species	1100 mg/kg Test results	
Components Aluminium hydroxide (CAS 21645	Species		
Components Aluminium hydroxide (CAS 21645 Acute	Species		
Components Aluminium hydroxide (CAS 21645 Acute Other	Species 5-51-2)	Test results	
Components Aluminium hydroxide (CAS 21645 Acute Other LD50	Species 5-51-2) Rat		
Components Aluminium hydroxide (CAS 21645 Acute Other LD50 Skin corrosion/irritation	Species 5-51-2) Rat Not classified. Non-corrosive.	Test results	
Components Aluminium hydroxide (CAS 21645 Acute Other LD50	Species 5-51-2) Rat	Test results	
Components Aluminium hydroxide (CAS 21645 Acute Other LD50 Skin corrosion/irritation Serious eye damage/eye	Species 5-51-2) Rat Not classified. Non-corrosive. Not classified. May cause minor irr	Test results	
Components Aluminium hydroxide (CAS 21645 Acute Other LD50 Skin corrosion/irritation Serious eye damage/eye irritation	Species 5-51-2) Rat Not classified. Non-corrosive. Not classified. May cause minor irr	Test results 1100 mg/kg itation on eye contact. data, the classification criteria are not met.	
Components Aluminium hydroxide (CAS 21645 Acute Other LD50 Skin corrosion/irritation Serious eye damage/eye irritation Respiratory sensitisation	Species 5-51-2) Rat Not classified. Non-corrosive. Not classified. May cause minor irr Not classified. Based on available	Test results 1100 mg/kg itation on eye contact. data, the classification criteria are not met. Skin contact.	
Components Aluminium hydroxide (CAS 21645 Acute Other LD50 Skin corrosion/irritation Serious eye damage/eye irritation Respiratory sensitisation Routes of exposure	Species 5-51-2) Rat Not classified. Non-corrosive. Not classified. May cause minor irr Not classified. Based on available Eye contact. Inhalation. Ingestion.	Test results 1100 mg/kg itation on eye contact. data, the classification criteria are not met. Skin contact. itation on skin contact.	
Components Aluminium hydroxide (CAS 21645 Acute Other LD50 Skin corrosion/irritation Serious eye damage/eye irritation Respiratory sensitisation Routes of exposure Skin sensitisation	Species 5-51-2) Rat Not classified. Non-corrosive. Not classified. May cause minor irr Not classified. Based on available Eye contact. Inhalation. Ingestion. Not classified. May cause minor irr	Test results 1100 mg/kg itation on eye contact. data, the classification criteria are not met. Skin contact. itation on skin contact. ent listed as a mutagen.	
Components Aluminium hydroxide (CAS 21645 Acute Other LD50 Skin corrosion/irritation Serious eye damage/eye irritation Respiratory sensitisation Routes of exposure Skin sensitisation Germ cell mutagenicity	Species 5-51-2) Rat Not classified. Non-corrosive. Not classified. May cause minor irr Not classified. Based on available Eye contact. Inhalation. Ingestion. Not classified. May cause minor irr Not classified. Contains no ingredie	Test results 1100 mg/kg itation on eye contact. data, the classification criteria are not met. Skin contact. itation on skin contact. ent listed as a mutagen.	
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Components Aluminium hydroxide (CAS 21645 Acute Other LD50 Skin corrosion/irritation Serious eye damage/eye irritation Respiratory sensitisation Routes of exposure Skin sensitisation Germ cell mutagenicity Carcinogenicity ACGIH Carcinogens Aluminium hydroxide (CA	Species 5-51-2) Rat Not classified. Non-corrosive. Not classified. May cause minor irr Not classified. Based on available Eye contact. Inhalation. Ingestion. Not classified. May cause minor irr Not classified. May cause minor irr Not classified. Contains no ingredie Not classified. Contains no ingredie Not classified. Contains no ingredie	Test results 1100 mg/kg itation on eye contact. data, the classification criteria are not met. Skin contact. itation on skin contact. ent listed as a mutagen. ent listed as a carcinogen Not classifiable as a human carcinogen.	
Components Aluminium hydroxide (CAS 21645 Acute Other LD50 Skin corrosion/irritation Serious eye damage/eye irritation Respiratory sensitisation Routes of exposure Skin sensitisation Germ cell mutagenicity Carcinogenicity ACGIH Carcinogens Aluminium hydroxide (CA Reproductive toxicity -	Species 5-51-2) Rat Not classified. Non-corrosive. Not classified. May cause minor irr Not classified. Based on available Eye contact. Inhalation. Ingestion. Not classified. May cause minor irr Not classified. Contains no ingredie Not classified. Based on available	Test results 1100 mg/kg itation on eye contact. data, the classification criteria are not met. Skin contact. itation on skin contact. ent listed as a mutagen. ent listed as a carcinogen Not classifiable as a human carcinogen. ent listed as toxic to reproduction.	
Components Aluminium hydroxide (CAS 21645 Acute Other LD50 Skin corrosion/irritation Serious eye damage/eye irritation Respiratory sensitisation Routes of exposure Skin sensitisation Germ cell mutagenicity Carcinogenicity ACGIH Carcinogens Aluminium hydroxide (CA Reproductive toxicity Specific target organ toxicity - single exposure Specific target organ toxicity -	Species 5-51-2) Rat Not classified. Non-corrosive. Not classified. May cause minor irr Not classified. Based on available Eye contact. Inhalation. Ingestion. Not classified. May cause minor irr Not classified. Contains no ingredie Not classified. Based on available	Test results 1100 mg/kg itation on eye contact. data, the classification criteria are not met. Skin contact. itation on skin contact. itation on skin contact. ent listed as a mutagen. ent listed as a carcinogen Not classifiable as a human carcinogen. ent listed as toxic to reproduction. data, the classification criteria are not met. data, the classification criteria are not met.	
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Components Aluminium hydroxide (CAS 21645 Acute Other LD50 Skin corrosion/irritation Serious eye damage/eye irritation Respiratory sensitisation Routes of exposure Skin sensitisation Germ cell mutagenicity Carcinogenicity ACGIH Carcinogens Aluminium hydroxide (CA Reproductive toxicity Specific target organ toxicity - single exposure Specific target organ toxicity - repeated exposure Symptoms	Species 5-51-2) Rat Not classified. Non-corrosive. Not classified. May cause minor irr Not classified. Based on available Eye contact. Inhalation. Ingestion. Not classified. May cause minor irr Not classified. Contains no ingredie Not classified. Contains no ingredie Not classified. Contains no ingredie Not classified. Contains no ingredie Not classified. Based on available Not classified. Based on available Not classified. Based on available Mild skin irritation Mild eye irritatior	Test results 1100 mg/kg itation on eye contact. data, the classification criteria are not met. Skin contact. itation on skin contact. ent listed as a mutagen. ent listed as a carcinogen Not classifiable as a human carcinogen. ent listed as toxic to reproduction. data, the classification criteria are not met. data, the classification criteria are not met. data, the classification criteria are not met.	

SECTION 12: Ecological information

12.1. Toxicity	This material is not expected to be harmful to aquatic life.
12.2. Persistence and degradability	The product contains inorganic compounds which are not biodegradable.
12.3. Bioaccumulative potential	The product is not bioaccumulating.
Partition coefficient n-octanol/water (log Kow)	Not applicable.
Bioconcentration factor (BCF)	Not available.
12.4. Mobility in soil	Not considered mobile.
Mobility in general	Not applicable.
12.5. Results of PBT	Not applicable.
and vPvB	Not applicable.
assessment	Not applicable.
12.6. Other adverse effects	None known.
12.7. Additional information	None known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal methods/information	Reuse or recycle material whenever possible. If reuse or recycling is not possible, disposal must be made according to local or governmental regulations.
EU waste code	 Waste codes should be assigned by the user based on the application for which the product was used. The Waste code should be assigned in discussion between the user, the producer and the waste disposal company. The following Waste Codes are only suggestions: 100322 - other particulates and dust (including ball-mill dust) other than those mentioned in 10 03 21 160304 - inorganic wastes other than those mentioned in 160303
Residual waste	Dispose of in accordance with local regulations.
Contaminated packaging	Dispose of in accordance with local regulations.

SECTION 14: Transport information

General Shipping Information

UN number	-
Proper shipping name	Not regulated
Hazard class	-
Packing group	-
warel Obligging Nation	

General Shipping Notes

• When "Not regulated", enter the proper freight classification, SDS Number and Product Name onto the shipping paperwork. **IMSBC**

Basic shipping requirements:

UN number	-
Proper shipping name	Alumina Hydrate
Hazard class	-
Packing group	-

IMSBC Notes

• Classification applies to international vessel transport of Alumina Hydrate as bulk cargo (may not apply to domestic only shipments-check local regulations). The Bulk Cargo Shipping Name (BCSN) is provided above.

· Per the IMSBC code, Alumina Hydrate for bulk transport

by vessel is classed as a MHB in Group A and B. Hazards indicated by the

IMSBC code: This cargo may liquefy if shipped at moisture content in excess of

its Transportable Moisture Limit (TML). Alumina Hydrate dust is very abrasive

and penetrating. Irritating to eyes, skin and mucous membranes.

This cargo is non-combustible or has low fire risks.

• Alumina Hydrate is NOT classified as Harmful to the Marine Environment (HME).

Disclaimer

This section provides basic classification information and, where relevant, information with respect to specific modal regulations, environmental hazards and special precautions. Otherwise, it is presumed that the information is not available/not relevant

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

EU regulations

Not applicable.

- Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I Not listed
- Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex II Not listed.
- Regulation (EC) No. 850/2004 on persistent organic pollutants, Annex I

Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 1 Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 2 Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 3 Not listed.

- Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex V Not listed.
- Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry

Not listed.

Regulation (EC) No. 1907/2006, REACH Article 59(1) Candidate List as currently published by ECHA Not listed.

Authorisations

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended Not listed.

Restrictions on use

Regulation (EC) No. 1907/2006 Annex XVII Substances subject to restriction on marketing and use

Not regulated.

Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work

Not listed.

Directive 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or are breastfeeding

Not listed.

Other EU regulations

Directive 96/82/EC (Seveso II) on the control of major-accident hazards involving dangerous substances

Not listed.

Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work Not listed.

Directive 94/33/EC on the protection of young people at work

Not listed.

Other regulations

National regulations

This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006. The product does not need to be labelled in accordance with EC directives or respective national laws. Not available.

International Inventories		
Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes

Country(s) or region	Inventory name	On inventory (yes/no)*
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes
	nents of this product comply with the inventory requirements administered by the g components of the product are not listed or exempt from listing on the inventory a	
15.2. Chemical safety assessment	No Chemical Safety Assessment has been carried out.	
SECTION 16: Other inform	ation	
SDS Status	April 2015	
Revision date	April 2015.	
Disclaimer	The information in the sheet was written based on the best knowledge available.	and experience currently
Other information		
(ACGIH).	sure Values 2014, Compiled by the American Conference of Governmer emical Hazards, U.S. Department of Health and Human Services, Septer	
 TOXNET, U.S. National Libr expub, Expert Publishing, LI 	ary of Medicine _C., www.expub.com,	
Ariel, 3E Company, www.3E	company.com	
	ce of Governmental Industrial Hygienists	
AICS Australian Inventor CAS Chemical Abstract	y of Chemical Substances	
CERCLA Comprehensive En	vironmental Response, Compensation, and Liability Act	
CFR Code of Federal Re CPR Cardio-pulmonary		
DOT Department of Trar	nsportation	
DSL Domestic Substant EC Effective Concentra		
ED Effective Dose		
	y of Existing Commercial Chemical Substances Id New Chemical Substances	
EWC European Waste (Catalogue	
EPA Environmental Pro IARC International Agend	tective Agency cy for Research on Cancer	
LC Lethal Concentratio		
LD Lethal Dose	ce Concentration (Germany) "maximale Arbeitsplatz-Konzentration"	
	stances List (Canada)	
NIOSH National Institute fo	r Occupational Safety and Health	
NTP National Toxicology OEL Occupational Expos		
OSHA Occupational Safet	y and Health Administration	
PIN Product Identification PMCC Pensky Marten Clo		
RCRA Resource Conserva	ation and Recovery Act	
	nents and Reauthorization Act tion sur les Matières Dangereuses Utilisées au Travail	
STEL Short Term Exposu	re Limit	
TCLP Toxic Chemicals Lea		
TDG Transportation of Da TLV Threshold Limit Val		
TSCA Toxic Substances C	Control Act	
TWA Time Weighted Ave WHMIS Workplace Hazarde	rage ous Materials Information System	
m metre, cm centimetre, mm	millimetre, in inch,	
g gram, kg kilogram, lb pound ppm parts per million, ft feet	, μg microgram,	
*** End of SDS ***	* UUBAI - U.A.E. *	
	PARS - FLC	

HYDRATED ALUMINAS (GROUND AND UNGROUND)

Components: Aluminium hydroxide - 99.5%

None.

Precautionary statements

Prevention: Not applicable. Response: Not applicable. Storage: Keep dry. Disposal: P501 - Dispose of contents/container in accordance with local/regional/national/international regulations.

Supplemental Information

Non-combustible. Heating the material above 200°C will result in a sudden release of water vapor (steam). Can cause mild irritation of the eyes, skin and upper respiratory tract. Avoid contact with skin and eyes. Avoid dust formation. Keep material dry.

FIRE FIGHTING MEASURES: Use fire fighting methods and materials that are appropriate for surrounding fire.

IN CASE OF SPILL: Return to containers using shovels, buckets or brooms.

