



#### **GRANITE ELITE**®

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03 Canadian Workplace Hazardous Material Information System (WHMIS) 2015 Mexico NOM-018-STPS-2000; NOM-018-STPS-2015 Globally Harmonized System (GHS)

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

#### 1.1. Product identifier

Product Name:	<b>GRANITE ELITE</b> ®
Aluminum Hydroxide	
CAS Number	21645-51-2
Weight-%	-
Pigment_	
CAS Number	Proprietary
Weight-%	-
Titanium Oxide	
CAS Number	13463-67-7
Weight-%	-

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

Recommended Use Flame retardant. Smoke suppressant.

Uses advised against None known.

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

Company:	J.M. Huber Corporation 3100 Cumberland Boulevard, Suite 600 Atlanta, GA 30339 USA Tel: +1 678 247-7300
Internet	www.hubermaterials.com
E-mail	hubermaterials@huber.com
1.4. Emergency telephone number	CHEMTREC: +1 800 424 9300 or International +1 703 527 3887

# **SECTION 2: Hazards identification**

2.1. Classification of the substance or mixture

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Physical Hazards	Not classified	
Health Hazards	Not classified	
Environmental Hazard	Not classified	
2.2. Label elements		
Symbols/Pictograms	None	
Signal Word	None	
Hazard Statements	None	
Precautionary Statements		
Prevention	Do not handle until all safety precautions have been read and understood. Employ good industrial hygiene practice Do not breathe dust Wear protective gloves/protective clothing/eye protection/face protection	
Response	IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing IF ON SKIN: Wash with plenty of soap and water If swallowed, rinse mouth with water (only if the person is conscious) Drink plenty of water	
Storage	Store away from incompatible materials Keep in a dry place	
Disposal	Dispose of contents/containers in accordance with local regulations	
Hazards not otherwise classified None known.		

(HNOC)

# **SECTION 3: Composition/information on ingredients**

Chemical Name	CAS Number	TSCA: United States	Canada (DSL)	Mexico	REACH registration number	OSHA Regulatory Status	WHMIS	Weight-%
Aluminum Hydroxide	21645-51-2	Y	Y	Y	01-211952924 6-39-0016	Not classified		-
Pigment	Proprietary	Y	Y		Not registered	Not classified		-
Titanium Oxide	13463-67-7	Y	Y	Y	Not registered	Not classified		-

Legend

X / Y: Complies - / N: Not Listed Exempt , ,

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# **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

General Advice	Do not handle until all safety precautions have been read and understood. Employ good industrial hygiene practice. Wear suitable protective clothing, gloves and eye/face protection. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves. When in doubt or if symptoms are observed, get medical advice.
Eye Contact	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Skin Contact	Wash with plenty of soap and water.
Ingestion	Rinse mouth thoroughly with water.
Inhalation	Do not breathe dust. If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
Aspiration hazard	Based on available data, the classification criteria are not met.
4.2. Most important symptoms and effects, both acute and delayed	May cause irritation to mucous membranes and respiratory tract. Contact with dust can cause mechanical irritation or drying of the skin.
4.3. Indication of any immediate medical attention and special treatment needed	Treatment should be symptomatic and supportive. Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination.

# **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

Suitable Extinguishing Media Water spray (fog). Foam. Dry chemical. Carbon dioxide (CO2).

Unsuitable Extinguishing Media None known.

**5.2. Special hazards arising from the substance or mixture** None known.

5.3. Advice for firefighters

Special protective equipment for firefighters Wear a self-contained breathing apparatus and chemical protective clothing.

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#### **Fire-fighting measures**

Water mist may be used to cool closed containers. No special fire protection measures are necessary. Standard procedure for chemical fires.

# **SECTION 6: Accidental release measures**

6.1. Personal precautions, protective equipment and emergency procedures	Keep unauthorized personnel away. Avoid dust formation. Ensure adequate ventilation. Use personal protection recommended in Section 8.
For non-emergency personnel	Keep unauthorized personnel away.
For emergency responders	Keep unauthorized personnel away. Use personal protection recommended in Section 8.
6.2. Environmental precautions	Avoid runoff to waterways and sewers.
6.3. Methods and material for containment and cleaning up	Large Spill: Do not dry sweep dust. Wet dust with water before sweeping or use a vacuum to collect dust Small Spill: Vacuum or sweep material and place in a disposal container
6.4. Reference to other sections	Section 8: Exposure controls and personal protection. See Section 13 for additional waste treatment information.

# **SECTION 7: Handling and storage**

7.1. Precautions for safe handling	Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Minimize dust generation and accumulation. Do not breathe dust. Ensure adequate ventilation. Wear appropriate personal protective clothing to prevent skin contact. Handle in accordance with good industrial hygiene and safety practice.
	personal protective clothing to prevent skin contact. Handle in accordance with

**7.2. Conditions for safe storage,** Keep container tightly closed and dry. Store away from incompatible materials. **including any incompatibilities** 

### **SECTION 8: Exposure controls/personal protection**

8.1. Control parameters

**Occupational exposure limits** 

Aluminum Hydroxide

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	OSHA	TWA: 15 mg/m <sup>3</sup> Total Dust 5 mg/m <sup>3</sup> Respirable Dust
	ACGIH	TLV/TWA 8-hr: 1 mg/m <sup>3</sup> (respirable fraction)
	NIOSH	TWA: 5 mg/m <sup>3</sup> (respirable dust); 10 mg/m <sup>3</sup> TWA (total dust)
	Canada - BC TWA	TWA: 1 mg/m <sup>3</sup> (respirable)
	Canada - Manitoba - OEL - TWA	TWA: 1 mg/m <sup>3</sup> (respirable)
	Canada - Newfoundland & Labrador - OEL - TWA	TWA: 1 mg/m <sup>3</sup> (respirable)
	Canada - Nova Scotia - OEL - TWA	TWA: 1 mg/m <sup>3</sup> (respirable)
	Canada - Prince Edward Island - OEL - TWA	TWA: 1 mg/m <sup>3</sup> (respirable)
	Mexico	No se ha establecido
<u>Tit</u>	<u>anium Oxide</u>	
	OSHA	10 mg/m <sup>3</sup>
	ACGIH	10 mg/m <sup>3</sup>
	Canada	10 mg/m³ TWA
	Canada - BC TWA	3 mg/m <sup>3</sup> (respirable); 10 mg/m <sup>3</sup> (total)
	Canada - Manitoba - OEL - TWA	10 mg/m³ TWA
	Canada - Newfoundland & Labrador - OEL - TWA	10 mg/m³ TWA
	Canada - Nova Scotia - OEL - TWA	10 mg/m³ TWA
	Canada - Prince Edward Island - OEL - TWA	10 mg/m³ TWA
	Mexico	10 mg/m <sup>3</sup>

Biological Limit Values: No information available

8.2. Exposure controls

**Engineering Measures** Provide a good standard of controlled ventilation (5 to 10 air changes per hour). Use exhaust ventilation to keep airborne concentrations below exposure limits. In case of insufficient ventilation, wear suitable respiratory equipment.

#### Personal protective equipment

Eye/Face Protection	Wear safety glasses with side shields (or goggles).	
Skin and Body Protection Wear suitable protective clothing.		
Hand protection	For operations where prolonged or repeated skin contact may occur, impervious gloves should be worn.	
<b>Respiratory Protection</b>	In case of inadequate ventilation wear respiratory protection.	
Thermal hazards	None known. Wear suitable protective clothing.	
Hygiene Measures	Follow general hygiene considerations recognized as common good workplace practices. The worker should wash daily at the end of each work shift, and prior to eating, drinking, smoking, etc.	
Environmental Exposure Controls	Dispose of in accordance with local regulations.	

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# **SECTION 9: Physical and chemical properties**

9.1. Information on basic physical and chemical properties

Solid Powder
White
Odorless
No information available
8.5 (20 % solution)
Not applicable
Not applicable
Non-combustible.
Not applicable.
Not applicable
Not applicable
Not applicable
Not available
Not applicable
Insoluble
Not applicable
Not applicable
392 °F (200 °C)
Not applicable.

# **SECTION 10: Stability and reactivity**

10.1. Reactivity	Stable under normal conditions
10.2. Chemical stability	Stable under normal conditions
10.3. Possibility of hazardous reactions	No specific hazard known
10.4. Conditions to avoid	Incompatible materials Dust formation
10.5. Incompatible materials	None known
10.6. Hazardous decomposition products	None known

# **SECTION 11: Toxicological information**

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General Information	Users are advised to consider national Occupational Exposure Limits or other equivalent values.	
Information on Likely Routes of Exposure		
Inhalation	Do not breathe dust Inhalation of dust in high concentration may cause irritation of respiratory system	
Skin	Contact with dust can cause mechanical irritation or drying of the skin	
Eyes	Dust contact with the eyes can lead to mechanical irritation	
Ingestion	Ingestion is not a likely route of exposure	
Aspiration hazard	Not an expected route of exposure.	

### 11.1. Information on toxicological effects

Aluminum Hydroxide Oral LD50 Inhalation LC50 IARC <u>Titanium Oxide</u> Oral LD50	<ul> <li>&gt; 2000 mg/kg Rat</li> <li>Rat &gt; 2.3 mg/l (Al2O3) Aerosol Maximum attainable concentration</li> <li>Not Listed</li> <li>10000 mg/kg (rat)</li> </ul>
Acute Toxicity	Not classified
Chronic Effects	Not classified.
<b>Respiratory Sensitization</b>	Not expected to be a sensitizer.
Serious eye damage/eye irritation	May cause temporary eye irritation
Skin Corrosion/Irritation	Prolonged or repeated contact may dry skin and cause irritation
Skin Sensitization	Not expected to be a skin sensitizer.
Germ cell mutagenicity	Not mutagenic.
Reproductive Toxicity	No known effect.
Specific target organ toxicity - Single exposure	Not classified.
Specific target organ toxicity - Repeated exposure	Not classified.

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# **SECTION 12: Ecological information**

12.1. Ecotoxicity

Not considered to be harmful to aquatic life.

### Aluminum Hydroxide

WGK Classification (VwVwS) 5220 WKG: nwg

12.2. Persistence and degradability	No data available.
12.3. Bioaccumulative potential	No data available.
Partition coefficient	Not applicable
Bioconcentration factor (BCF)	No data available.
12.4. Mobility in soil	No data available.
12.5. Results of PBT and vPvB assessment	No data available.
12.6. Other adverse effects	No information available

# **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

Disposal Methods	Disposal should be in accordance with applicable regional, national and local laws and regulations.
Contaminated Packaging	Product residue may remain in empty containers. Empty containers should be taken to an approved waste handling site for recycling or disposal.
Waste codes	Waste codes should be assigned by the user based on the application for which the product was used
Aluminum Hydroxide European Waste Catalog	060299

WGK Classification (VwVwS) 5220 WKG: nwg

# **SECTION 14: Transport information**

HUBER

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TDG -Canada DOT ADR RID ADN IATA IMDG/IMO ICAO	Not regulated Not regulated Not regulated Not regulated Not regulated Not regulated Not regulated Not regulated Not regulated
ICAO	Not regulated
	0

14.1. UN number	None
14.2. UN proper shipping name	None
14.3. Transport hazard class(es)	None
14.4. Packing group	None
14.5. Environmental hazards	No
14.6. Special precautions for user	Not applicable

**14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not applicable

# **SECTION 15: Regulatory information**

#### **Global Inventories**

Chemical Name	CAS Number	EC No	REACH registrati on number	Australia (AICS)	Canada (DSL)	China (IECSC)	Japan	S. Korea (KECL)	Mexico		Philippine s (PICCS)	Taiwan	TSCA: United States
Aluminum Hydroxide	21645-51- 2		01-211952 9246-39-0 016		Y	Y	Y	KE-00980	Y	Y	Y	Y	Y
Pigment	Proprietar y	Proprietar y	Not registered		Y								Y
Titanium Oxide	13463-67- 7	236-675-5	Not registered	Ŷ	Ŷ	Ŷ	(5)-5225 (ENCS) (1)-558 (ENCS)	KE-33900	Y	Ŷ	Y		Ŷ

Legend

X / Y: Complies - / N: Not Listed Exempt

#### **US Federal Regulations**

<u>EPA</u>

CERCLA <u>Aluminum Hydroxide</u> CERCLA

Not listed

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SARA 311/312 Hazardous Not listed Categorization SARAH 302 RQ, Ibs Not listed

#### U.S. State Right-to-Know Regulations

Chemical Name	CAS Number	California Proposition 65	 Massachusetts	Minnesota	New Jersey	Pennsylvania
Aluminum Hydroxide	21645-51-2	No	No	No	No	No
Pigment	Proprietary					
Titanium Oxide	13463-67-7		Y	Y	Y	Y

### CANADA

#### WHMIS:

This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations (HPR) and the SDS contains all the information required by the HPR

	SECTION 16: Other information			
Prepared by	Huber Engineered Materials (HEM) Global Regulatory Affairs regulatory.affairs@huber.com			
Issue Date: Print Date:	15/Nov/2018 28/Nov/2018			
Revision Number:	1.3			
Reason for Version	OSHA (Occupational Safety and Health Administration of the US Department of Labor).			
Training Advice	Do not handle until all safety precautions have been read and understood.			
Abbreviations and acronyms	<ul> <li>International Agency for Research on Cancer (IARC) International Air Transport Association (IATA) International Maritime Dangerous Goods (IMDG) International Uniform Chemical Information Database (IUCLID) Workplace Hazardous Materials Information System (WHMIS) status and classification EPA SARA Title III Section 312 (40 CFR 370) Hazard Classification DOT (Department of Transportation) OSHA (Occupational Safety and Health Administration of the US Department of Labor) TWA - Time-Weighted Average Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) The Classification, Labeling and Packaging of Substances and Mixtures (CLP) Regulation (EC 1272/2008) PPE - Personal Protection Equipment NIOSH - National Institute for Occupational Safety and Health TDG (Transport of Dangerous Goods) Canada CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act) Reportable Quantity (RQ) (RQ/% in mixture) STEL - Short Term Exposure Limit TLV® - Threshold Limit Value Derived No Effect Level (DNEL) SVHC: Substances of Very High Concern for Authorization: Land transport (ADR/RID)</li> </ul>			

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Biochemical oxygen demand (BOD) Chemical oxygen demand (COD) ICAO (air) (IMDG) International Maritime Dangerous Goods Positive Pressure Self-Contained Breathing Apparatus (SCBA) Predicted No Effect Concentration (PNEC) Globally Harmonized System (GHS)

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

End of Safety Data Sheet