



HUBER ENGINEERED MATERIALS

Safety Data Sheet

Granite Elite®

Revision Date: 20/May/2011

Revision Number: 1.1

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name	Granite Elite®
Company	J.M. Huber Corporation Cumberland Center II 3100 Cumberland Boulevard, Suite 600 Atlanta, GA 30339 USA Tel: 678-247-7300 Fax: 1-678-247-2797
Emergency Telephone	CHEMTREC: 1 800 424 9300 or International +1 703 527 3887
Internet	www.hubermaterials.com
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2. HAZARD IDENTIFICATION

Emergency overview:	This is a non-combustible, odorless, colored powder.
Potential Health Effects	
Sensitization	Does not cause sensitization.
Eye contact:	Dust may cause mechanical irritation to eyes.
Eye irritation	Non-irritating.
Skin irritation	Non-irritating.
Inhalation:	Inhalation of dust may cause respiratory tract irritation.
Ingestion	May cause discomfort if swallowed.
Carcinogenicity:	Titanium dioxide: Possibly carcinogenic to humans (IARC: 2B); However, exposure is expected to be insignificant since the titanium dioxide is encapsulated into the plastic resin matrix.
Environmental Exposure:	Keep product from entering drains and waterways.

Aluminum Trihydrate - CAS: 21645-51-2

Avoid dust formation.
Wet material on walking surfaces is hazardous.

3. COMPOSITION / INFORMATION ON INGREDIENTS

COMPONENT(S) / CAS	EC / REACH	EU CLP Classification	%W/W
Aluminum Trihydrate CAS: 21645-51-2	244-492-7 01-2119529246-39	Not classified	70-90
Pigment CAS:	Proprietary	Not classified	10-20
Titanium Oxide CAS: 13463-67-7	236-675-5	Not classified	1-10

Aluminum Trihydrate - CAS: 21645-51-2

Regulation (EC) 1907/2006: REACH

*Registered with an "OR" (EU REACH "Only Representative")

Pigment - CAS:

Regulation (EC) 1907/2006: REACH

*Pre-Registered under REACH

Titanium Oxide - CAS: 13463-67-7

Regulation (EC) 1907/2006: REACH

*Pre-Registered under REACH

4. FIRST AID MEASURES

Eye contact	Hold eyelids apart and flush eyes with a steady, gentle stream of water for several minutes.
Skin contact	Wash skin with soap and water.
Ingestion	Rinse mouth with water. Do not induce vomiting.
Inhalation	Remove person to fresh air.
General Advice	In case of doubt or when symptoms persist, seek medical attention.

5. FIRE-FIGHTING MEASURES

NFPA:	Health 1	Flammability 0	Reactivity 0	PPE: E
HMIS:	Health 1	Flammability 0	Physical hazard 0	

Extinguishing media Non-combustible.
All extinguishing media can be used. Use suitable media appropriate for the surrounding fire.

Unsafe extinguishing media: None.

Special exposure hazards: None.

Special protective equipment for firefighters Firefighters should wear protective clothing and use equipment that is suitable for the materials involved in the surrounding fire.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions	Avoid contact with skin and eyes. Wear suitable personal protection equipment.
Environmental precautions	Keep product from entering drains and waterways.
Cleanup methods	Pick up mechanically and / or by rinsing with water. Avoid dry sweeping and use a sprinkler system or exhaust ventilation to prevent dust formation.

7. HANDLING AND STORAGE

Handling	Avoid dust formation. Provide appropriate exhaust ventilation in places where dust is formed. In case of insufficient ventilation, wear suitable respiratory equipment.
Storage	Store in a dry area. Keep containers closed and protect from physical damage.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Controls

Engineering Controls:	Use mechanical ventilation (dilution and local exhaust) to control exposure.
Nuisance particles/ Nuisance dust:	ACGIH: 10 mg/m ³ (total dust), 3 mg/m ³ (respirable fraction) OSHA PEL: 15 mg/m ³ (total dust), 5 mg/m ³ (respirable fraction)
Personal Protective Equipment	
Eye Protection	Safety glasses with side shields.
Skin and Body Protection:	Use suitable protective clothing, gloves and footwear, selected with regard for use conditions and exposure.
Hand Protection:	Impervious gloves: chemical resistant. EN 420
Respiratory Protection:	In case of exposure to high levels of airborne dust, wear a respirator EN 149, P2 half masks
Hygiene Measures:	Handle in accordance with good industrial hygiene and safety practice.
Environmental Exposure:	Keep product from entering drains and waterways.

Control Parameters

Exposure Limit Values:

Aluminum Trihydrate - CAS: 21645-51-2	
OSHA - TWA	10 mg/m ³
ACGIH - TLV-TWA 8-hour	1 mg/m ³ (respirable)

Canada - British Columbia - OEL - 1 mg/m³ TWA (respirable)
TWA
Canada - Manitoba - OEL - TWA 1 mg/m³ TWA (respirable)
Canada - Newfoundland & Labrador - 1 mg/m³ TWA (respirable)
OEL - TWA
Canada - Nova Scotia - OEL - TWA 1 mg/m³ TWA (respirable)
Canada - Prince Edward Island - OEL 1 mg/m³ TWA (respirable)
- TWA
Mexico OEL Data - TWA No se ha establecido

Titanium Oxide - CAS: 13463-67-7

OSHA - TWA 10 mg/m³
ACGIH - TLV-TWA 8-hour 10 mg/m³
Canada - Alberta - OEL - TWA 10 mg/m³ TWA
Canada - British Columbia - OEL - 3 mg/m³ (respirable); 10 mg/m³ (total)
TWA
Canada - British Columbia - OEL - IARC Category 2B - Possible Human Carcinogen
Designated Substances
Canada - British Columbia - OEL - 10 mg/m³
TWAs 3 mg/m³
Canada - Manitoba - OEL - TWA 10 mg/m³ TWA
Canada - Newfoundland & Labrador - 10 mg/m³ TWA
OEL - TWA
Canada - Nova Scotia - OEL - TWA 10 mg/m³ TWA
Canada - Prince Edward Island - OEL 10 mg/m³ TWA
- TWA
Mexico OEL Data - TWA 10 mg/m³

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Colored Powder
Odor	Odorless
Odor Threshold	No information available
pH:	8.5 in 20% water suspension
Freeze Point	Not applicable
Flash point	Non-combustible
Evaporation Rate	Not applicable
Flammability	Not applicable
Vapor Pressure	Not applicable
Vapor Density	Not applicable
Water Solubility	Insoluble
Autoignition Temperature	Not applicable

10. STABILITY AND REACTIVITY

Reactivity	None
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Stability	Stable under normal conditions
Possibility of Hazardous Reactions	Hazardous polymerization will not occur.
Conditions to avoid	None
Materials to avoid (Incompatible Materials)	Strong Acids
Hazardous decomposition products	None

11. TOXICOLOGICAL INFORMATION

Toxicological Data Sources	Data from the scientific literature on components are summarized below.
Acute toxicity	Data from the scientific literature on components are summarized below.
Chronic toxicity	Titanium dioxide: Possibly carcinogenic to humans (IARC: 2B); However, exposure is expected to be insignificant since the titanium dioxide is encapsulated into the plastic resin matrix.
Carcinogenicity:	Titanium dioxide: Possibly carcinogenic to humans (IARC: 2B); However, exposure is expected to be insignificant since the titanium dioxide is encapsulated into the plastic resin matrix.

Titanium Oxide - CAS: 13463-67-7

NTP (National Toxicology Program)

male rat-negative; female rat-negative; male mice-negative; female mice-negative
LD50 Oral 10000 mg/kg (rat)

Potential Health Effects

Sensitization	Does not cause sensitization.
Eye irritation	Non-irritating.
Skin irritation	Non-irritating.
Inhalation	Dust may irritate the respiratory system.
Ingestion	May cause discomfort if swallowed.

12. ECOLOGICAL INFORMATION

Ecotoxicity	No information available. Keep product from entering drains and waterways.
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Aluminum Trihydrate - CAS: 21645-51-2

Germany - Water Classification (VwVwS) - Annex 3 5220 : NWG

Aluminum Trihydrate - CAS: 21645-51-2

Titanium Oxide - CAS: 13463-67-7

Germany - Water Classification (VwVwS) - Annex 1 1345 :NWG

13. DISPOSAL CONSIDERATIONS

DISPOSAL CONSIDERATIONS: Dispose in accordance with local, state and national regulations.

Aluminum Trihydrate - CAS: 21645-51-2

European Waste Catalogue (EWC): 060299

14. TRANSPORT INFORMATION

UN-No	None.
Proper Shipping Name	Refer to Sections 1 and 3 for product name and chemical name(s)
IMO / IMDG	Not a dangerous substance.
ICAO / IATA	Not a dangerous substance.
RID/ADR	Not a dangerous substance.
D.O.T. Hazard Classification	Non-hazardous material.
General Information	The data provided in this section is for information only. Please apply the appropriate regulations to properly classify your shipment for transportation.
Other information	Environmental hazards: None known Special precautions for user: Refer to Sections 2, 7, 8, 9, 10

15. REGULATORY INFORMATION

Component(s) of the product are on the following inventory lists:

COMPONENT(S) / CAS	EC / REACH	Australia (AICS)	Canada	China (IECSC)	Japan	Korea (KECL)	New Zealand (NZIoC)	Philippines (PICCS)	USA (TSCA)	Taiwan (ECN)
Aluminum Trihydrate CAS: 21645-51-2	244-492-7 01-2119529246-39	Present	Present (DSL)	Present	(1)-17 (ENCS)	KE-00980	Present	Present	Present	Nominated
Pigment CAS:	Proprietary									
Titanium Oxide CAS: 13463-67-7	236-675-5	Present	Present (DSL)	Present	(5)-5225 (ENCS) (1)-558 (ENCS)	KE-33900	Present	Present	Present	

Legend
Present: Listed
-: Not Listed
Exempt
Nominated

Aluminum Trihydrate - CAS: 21645-51-2

OSHA Regulatory Status Not regulated

Regulation (EC) 1907/2006: REACH

*Registered with an "OR" (EU REACH "Only Representative")

Canada - WHMIS - Classifications of Substances Uncontrolled product according to WHMIS classification criteria

Pigment - CAS:

Regulation (EC) 1907/2006: REACH

*Pre-Registered under REACH

Titanium Oxide - CAS: 13463-67-7

Regulation (EC) 1907/2006: REACH

*Pre-Registered under REACH

Canada - WHMIS - Classifications of Substances D2A

EPA:

SARA 311 / 312 HAZARD: None

SARA 313: None

CERCLA RQ: None

Clean Air Act: The components of this product are not regulated under any of the following sections of the Clean Air Act: Section 112 Hazardous Air Pollutants, Section 112 Statutory Air Pollutants, Section 112 High-Risk Pollutants, Section 112(r) Accidental Release Prevention Substances or Section 602 Ozone Depleting Substance. As a powder product, it would be regulated under Section 109 Criteria Pollutants particulates.

States Right-to-Know (RTK):

California Proposition 65: This product contains no chemicals at levels known to the State of California to cause cancer or reproductive hazards.

CONEG We certify that heavy metals defined as lead, mercury, cadmium and hexavalent chromium are not intentionally introduced to this product and with respect to lead, mercury, cadmium and hexavalent chromium, the incidental level of these four metals is less than 100 ppm.

CANADA

WHMIS: Aluminum hydroxide (21645-51-2): Uncontrolled product
Titanium dioxide (13463-67-7): D2A - Very Toxic Material Causing Other Toxic Effects

16. OTHER INFORMATION

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Training Advice

Personnel handling the substance(s) named in this Safety Data Sheet should be skilled and trained in areas associated with the key points named herein.

Personnel should have training and access to appropriate PPE for handling this product.

Personnel handling the substance(s) named in this Safety Data Sheet are responsible for ensuring that appropriate precautions are taken and for satisfying themselves that the data are suitable and sufficient for the substance(s) intended purpose.

If additional information is required, please contact the supplier or an expert.

Sources of key data

Literature data and/or investigative reports are available through the manufacturer.

Acronym / Abbreviation

ACRONYMS:
INTERNATIONAL:
ADR: International Carriage of Dangerous Goods by Road
BOD: Biochemical Oxygen Demand
CLP: Classification, Labeling and Packaging
COD: Chemical Oxygen Demand
D.O.T.: U.S. Department of Transportation
ICAO International Civil Aviation Organization
IATA: International Air Transport Association (IATA)
IMO::International Maritime Organization.
IMDG::International Maritime Dangerous Goods
INCI: International Nomenclature of Cosmetic Ingredients
OES: Occupational Exposure Standard
OR: EU REACH Only Representative
PPE: Personal protection equipment
RID: International Carriage by Rail
SCBA: self contained breathing apparatus
TLV-STEL: Threshold Limit Values - Short Term Exposure Limits
TWA: Time Weighted Averages

North America:
CERCLA RQ: US EPA Comprehensive Environmental, Response, and Liability Act Reportable Quantity
CERCLA: US EPA Comprehensive Environmental Response, Compensation, and Liability Act of 1980
CONEG: Conference of North Eastern Governors
NIOSH/MSHA - National Institute for Occupational Safety and Health/Mine Safety and Health Administration
SARA: Superfund Amendments and Reauthorization Act (US EPA)
TDG: Canada Transport of Dangerous Goods
WHMIS: Canada's Workplace Hazardous Materials Information System

Disclaimer: The information contained in this Safety Data Sheet to the best of JM Huber's knowledge and belief as of the date indicated is believed to be accurate and reliable. However, no representation, warranty or guarantee is implied or expressed regarding the accuracy, reliability or completeness of this information or the use of the product. Nothing contained herein should be construed as a recommendation to use this product in conflict with National or local regulations or existing patents covering any material or its use. In case of dispute, the English text governs.

END OF SAFETY DATA SHEET