

Sintered Bauxite/UltraProp®

High Strength Ceramic Proppants (all mesh sizes) SDS — For Industrial Use Only

Revision Date: 12 July 2018

1. Chemical Name and Company Identification

1.1 Product Name	Sintered Bauxite and UltraProp® (all mesh sizes)
Synonym(s)	High Strength Ceramic Proppant
1.2 Application	Proppant in hydraulic fracturing of oil & gas wells
1.3 Manufacturer	Saint-Gobain Proppants 6105 Cynamide Road, Benton, Arkansas, 72015 USA www.proppants.saint-gobain.com
1.4 Phone	24-Hour Emergency (501) 557-1300

2. Hazards Identification

2.1 Classification (according to Regulation (EC) No 1272/2008)	Not classified as hazardous according to the Globally Harmonized System (GHS)								
	Not classified as hazardous according to OSHA GHS regulations within the US								
	Not classified as hazardous according to the CLP regulation								
2.2 Label Elements (according to Regulation (EC) No 1272/2008)	<table><tr><td>Hazard Pictograms</td><td>Not Regulated</td></tr><tr><td>Signal Word</td><td>Not Regulated</td></tr><tr><td>Hazard Statements</td><td>Not Regulated</td></tr><tr><td>Precautionary Statements</td><td>Not Regulated</td></tr></table>	Hazard Pictograms	Not Regulated	Signal Word	Not Regulated	Hazard Statements	Not Regulated	Precautionary Statements	Not Regulated
Hazard Pictograms	Not Regulated								
Signal Word	Not Regulated								
Hazard Statements	Not Regulated								
Precautionary Statements	Not Regulated								
2.3 Other Hazards	Long term inhalation of product dust may be harmful. There are no other hazards not otherwise classified that have been identified.								
	PBT/vPvB Assessment Not Applicable								

3. Component Information

Chemical Name	Common Name	CAS #	% by Weight (typical)
Aluminum Oxide	Corundum (Al ₂ O ₃)	1302-74-5	65 - 85

4. First Aid Measures

4.1 Description of First Aid Measures	After Inhalation	Supply fresh air. Consult doctor in case of complaints. Provide oxygen treatment if affected person has difficulty breathing.
	After Skin Contact	Brush off loose particles from skin. Wash with soap and water. If skin irritation is experienced, consult a doctor.
	After Eye Contact	Remove contact lenses if worn. Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
	After Swallowing	Do not induce vomiting. Call for medical help immediately.
4.2 Most Important Symptoms and Effects		Breathing difficulty, coughing, mechanical irritation to eyes. Long term inhalation of product dust may be harmful.

5. Firefighting Measures

5.1 Extinguishing Media	Suitable Extinguishing Agents	The product is not flammable. Use fire extinguishing methods suitable to surrounding conditions.
	Unsuitable Extinguishing Agents	None
5.2 Special Hazards		None
5.3 Advice for Firefighters	Protective Equipment	Wear self-contained respiratory protective device. Wear fully protective suit.



6. Accidental Release Measures

6.1 Personal Precautions, Protective Equipment and Emergency Procedures	Use personal protective equipment as required. Avoid formation of dust. Avoid breathing dust. For large spills, use respiratory protective device against the effects of fumes/dust/aerosol.
6.2 Environmental Precautions	No special measures required.
6.3 Methods and Material for Containment and Cleaning Up	Pick up mechanically. Dispose of the material collected according to regulations.
6.4 Reference to Other Sections	See Section 7 for information on safe handling. See Section 8 for information on PPE. See Section 13 for disposal information.

7. Handling and Storage

7.1 Precautions for Safe Handling	Prevent formation of dust. Avoid breathing of dust. Ensure good ventilation/exhaustion at the workplace. No special measures required for fire/explosion protection.
7.2 Conditions for Safe Storage	Storage area should be dry and well-ventilated
7.3 Specific End Use(s)	No further relevant information available

8. Exposure Control/Personal Protection

8.1 Control Parameters

Ingredient	CAS#	Long-Term Exposure Limit Test	Total Dust	Respirable Dust
Corundum (Al ₂ O ₃)	1302-74-5	EL/EV (Canada)	10mg/m ³	1mg/m ³ as Al
		WEL (Great Britain)	10mg/m ³	4mg/m ³
		OEL (Ireland)	10mg/m ³	4mg/m ³
		PEL (USA)	15mg/m ³	5mg/m ³
		REL (USA)	10mg/m ³ as Al	5mg/m ³ as Al
		TLV (USA)	-	1mg/m ³ as Al

8.2 Exposure Controls

Engineering Measures	Provide adequate ventilation
General Protective and Hygienic Measures	The usual precautionary measures are to be adhered to when handling chemicals. Keep away from foodstuffs, beverages and feed. Avoid contact with the eyes. Avoid breathing dust.
Respiratory Protection	Not required under normal conditions of use. An EU approved dust respirator should be used for operations generating dust.
Protection of Hands	Wear gloves for protection against mechanical hazards according to NIOSH or EN 388
Eye Protection	Follow relevant national guidelines concerning the use of protective eyewear
Body Protection	Not required under normal conditions of use
Limitation and Supervision of Exposure Into the Environment	No special requirements
Risk Management Measures	No special requirements

9. Physical and Chemical Properties

Appearance	Grayish brown to black free-flowing granules
Odor	Odorless
Flash Point	Not applicable
Stability	Stable
pH	Not applicable
Vapor Pressure @ 25 °C	Not determined
Viscosity	Not applicable
Solubility in Water	Insoluble
Explosion Properties	Product does not present an explosion hazard
Oxidizing Properties	Non-oxidizing
Relative Density	3.3
Melting/Freezing/Boiling Point	Not determined

10. Stability and Reactivity

10.1 Reactivity	No further relevant information available
10.2 Chemical Stability	Stable under normal temperatures and pressures
10.3 Possibility of Hazardous Reactions	No dangerous reactions known
10.4 Conditions to Avoid	Prevent formation of dust
10.5 Incompatible Materials	Oxidizers, strong bases, strong acids
10.6 Hazardous Decomposition Products	No dangerous decomposition products known

11. Toxicological Information

Acute Toxicity	Classification criteria not met
LD50/LC50 Values	None
Probable Routes of Exposure	Inhalation, ingestion, eye contact, skin contact
Repeated Dose Toxicity	Repeated or long-term inhalation of product dusts may cause pulmonary disease

Based on available data, the classification criteria are not met for skin corrosion/irritation, serious eye damage/irritation, respiratory or skin sensitization

12. Ecological Information

None

13. Disposal Conditions

Smaller quantities can be disposed of with household waste. Contact waste processors for recycling information. Dispose of according to local, state/provincial and federal requirements.

14. Transportation Information

14.1 UN-Number: DOT, ADR, IMDG, IATA	Not Regulated
14.2 UN Proper Shipping Name: DOT, ADR, IMDG, IATA	Not Regulated
14.3 Transport Hazard Class(es)	Not Regulated
14.4 Packaging Group: DOT, ADR, IMDG, IATA	Not Regulated
14.5 Environmental Hazards - Marine Pollutant	No

15. Regulatory Information

SARA Title III	Section 313	None
	Section 355	None
Toxic Substance Control Act (TSCA)	All ingredients are listed or exempt	
EPA (Environmental Protection Agency)	None of the ingredients are listed	
IARC (International Agency for Research on Cancer)	None of the ingredients are listed	
Canadian Domestic Substances List (DSL)	All ingredients are listed	
Directive 2012/18/ EU: Named Dangerous Substances - ANNEX I	None of the ingredients are listed	
California State Proposition 65	None of the ingredients are listed	



16. Other Information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Abbreviations and acronyms:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bio-accumulable, Toxic

vPvB: very Persistent and very Bioaccumulative



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