



SAFETY DATA SHEET
ProLite (16/30, 16/20, 20/40, 30/50, 40/70, 100) Proppant

1. Identification

Product identifier

Product name ProLite (16/30, 16/20, 20/40, 30/50, 40/70, 100) Proppant

Chemical name Mullite

CAS number 66402-68-4

Recommended use of the chemical and restrictions on use

Application Proppant used for oil and natural gas hydraulic fracturing

Uses advised against Do not use in dry grinding, dry milling or abrasive blasting applications.

Details of the supplier of the safety data sheet

Supplier US CERAMICS LLC
 55 Adams Street, Suite 200
 Denver, CO 80206

Emergency telephone number

Emergency telephone 1 (800) 424 9300 CHEMTREC

National emergency telephone number 1-855-815-2641

2. Hazard(s) identification

Classification of the substance or mixture

Physical hazards Not Classified

Health hazards Not Classified

Environmental hazards Not Classified

Label elements

Hazard statements NC Not Classified

Precautionary statements Do not breathe dust.
 In case of inadequate ventilation, wear respiratory protection.
 Dispose of contents/containers in accordance with local regulations.

Supplemental label information Review the Safety Data Sheet for additional safety, health, environmental, transportation and classification information as it relates to this specific product and its ingredients.

3. Composition/information on ingredients

Mixtures

ProLite (16/30, 16/20, 20/40, 30/50, 40/70, 100) Proppant

Ceramic material and wares, chemical	90-100%
CAS number: 66402-68-4	
Classification	
Not Classified	

The Full Text for all Hazard Statements are Displayed in Section 16.

Composition comments

US Ceramics' ceramic proppant contains crystalline silica (cristobalite) in the matrix of the structure. However, because critobalite is bound in the proppant structure and because US Ceramics has determined that the percentage of particles less than 100 micron is less than 0.1%, cristobalite is not included as a specific ingredient in Section 3 of this Safety Data Sheet. However, users should also refer to Section 11 (Toxicology) for additional information regarding the carcinogenic classification of crystalline silica (cristobalite).

ProLite (16/30, 16/20, 20/40, 30/50, 40/70, 100) Proppant

4. First-aid measures

Description of first aid measures

Inhalation	Remove to fresh air, seek medical attention if necessary.
Ingestion	If ingested, give plenty of water and provide medical attention. Do not induce vomiting and never give water to an unconscious person.
Skin Contact	Wash with soap and water.
Eye contact	Rinse immediately with plenty of water. Get medical attention if any discomfort continues.

5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media The product is non-combustible.

Special hazards arising from the substance or mixture

Hazardous combustion products None known.

Advice for firefighters

Special protective equipment for firefighters Use protective equipment appropriate for surrounding materials.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions Avoid inhalation of dust. Use proper respiratory and person protective equipment. MSHA/NIOSH or OSHA/NIOSH respirator should be used if required to control personnel exposure to allowable levels. Spilled materials (both wet and dry) may cause slippery conditions. Care should be exercised when walking on spills or floors or concrete pads.

Environmental precautions

Environmental precautions Avoid discharge into drains or watercourses or onto the ground.

Methods and material for containment and cleaning up

Methods for cleaning up Flush spilled material into an effluent treatment plant, or proceed as follows. Vacuum, pump or scoop spilled materials into containers for reclaim or disposal. Do not use dry sweeping methods or compressed air for clean-up of spills/residues. Dispose of contents/container in accordance with local regulations.

Reference to other sections See Section 11 for additional information on health hazards.

7. Handling and storage

Precautions for safe handling

Usage precautions Avoid generation and spreading of dust. Avoid inhalation of dust.

Conditions for safe storage, including any incompatibilities

Storage precautions Store in a cool, dry location is recommended. Spilled materials (both wet and dry) may cause slippery conditions. Care should be exercised when walking on spills or floors or concrete pads.

8. Exposure Controls/personal protection

Control parameters

ProLite (16/30, 16/20, 20/40, 30/50, 40/70, 100) Proppant

Occupational exposure limits

Ceramic material and wares, chemical

Long-term exposure limit (8-hour TWA): OSHA 15 mg/m³ total dust
 Long-term exposure limit (8-hour TWA): ACGIH 2 mg/m³ respirable fraction
 Long-term exposure limit (8-hour TWA): OSHA 5 mg/m³ respirable fraction
 A4

OSHA = Occupational Safety and Health Administration.

ACGIH = American Conference of Governmental Industrial Hygienists.

A4 = Not Classifiable as a Human Carcinogen.

Exposure controls

Appropriate engineering controls	Use exhaust ventilation, if required, to maintain dust concentration below regulatory limits.
Eye/face protection	Wear approved side shield safety glasses.
Hand protection	Use general purpose gloves as necessary to protect against drying of skin in case of prolonged usage. Follow good hygiene practices to include washing hands with soap and water.
Hygiene measures	Wash hands thoroughly after handling.
Respiratory protection	If respirator use is required, use of a MSHA/NIOSH, OSHA/NIOSH approved respirator is recommended in compliance with applicable respiratory protection legislation.

9. Physical and Chemical Properties

Information on basic physical and chemical properties

Appearance	Granular to coarse powder.
Color	Off-white, grey to tan.
Odor	Odorless
Melting point	1600 to 1800 C
Initial boiling point and range	Not applicable.
Flash point	Not applicable.
Evaporation rate	Not applicable.
Other flammability	This material is not combustible.
Vapour pressure	Not applicable.
Vapour density	Not applicable.
Auto-ignition temperature	Not applicable.
Explosive under the influence of a flame	This product is not combustible or explosive.

10. Stability and reactivity

Reactivity	No specific reactivity hazards are associated with this product.
Stability	Stable under normal temperature conditions and recommended use.
Possibility of hazardous reactions	None known.

ProLite (16/30, 16/20, 20/40, 30/50, 40/70, 100) Proppant

Materials to avoid None known.

Hazardous decomposition products None known.

11. Toxicological information

Information on toxicological effects

Toxicological effects This product is not toxic (oral, dermal, or inhalation).

Skin sensitisation

Skin sensitisation This product is not known to cause skin sensitization.

Carcinogenicity

Carcinogenicity This product contains crystalline silica (cristobalite) in the ceramic matrix. In the IARC Monograph on the Evaluation of Carcinogenic Risk to Humans, Volume 68 published in 1997, IARC concluded that "Crystalline silica inhaled in the form of quartz or cristobalite from occupational sources is carcinogenic to humans (Group 1). In addition, the National Toxicology Program has also classified respirable crystalline silica as "Known to be a human carcinogen" in their Report on Carcinogens, Thirteenth Edition. However, crystalline silica (cristobalite) contained in the ceramic proppant produced by US Ceramics is bound into the ceramic matrix and US Ceramics has determined that the percentage of particles less than 100 micron (inhalable fraction) is below 0.1%. Therefore as produced, shipped and received, US Ceramics does not classify the product as a carcinogen based on the form.

12. Ecological Information

Ecotoxicity The product is not expected to be hazardous to the environment.

13. Disposal considerations

Waste treatment methods

Disposal methods Disposal of waste material in accordance with all local, State, and federal requirements.

Waste class If the product becomes a waste material, under RCRA (40 CFR 261), as manufactured and shipped, it would be classified as a non-hazardous waste.

14. Transport information

General The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, DoT).

Transport hazard class(es)

Not regulated.

15. Regulatory information

US Federal Regulations

SARA Section 302 Extremely Hazardous Substances Tier II Threshold Planning Quantities

This product does not contain ingredients subject to the reporting requirement.

CERCLA/Superfund, Hazardous Substances/Reportable Quantities (EPA)

No RQ Assigned

SARA Extremely Hazardous Substances EPCRA Reportable Quantities

This product does not contain ingredients subject to the reporting requirement.

ProLite (16/30, 16/20, 20/40, 30/50, 40/70, 100) Proppant

SARA 313 Emission Reporting

None of the ingredients in Section 3 are included in the SARA 313 Chemical List.

CAA Accidental Release Prevention

This product does not contain ingredients subject to the reporting requirement.

SARA (311/312) Hazard Categories

This product is subject to the reporting requirements of SARA 312 at a threshold quantity of 10,000 pounds. Acute / Delayed.

OSHA Highly Hazardous Chemicals

This product does not contain ingredients subject to the reporting requirement.

US State Regulations

California Proposition 65 Carcinogens and Reproductive Toxins

This product contains trace levels of one or more naturally-occurring materials known to the State of California to cause cancer, birth defects, or other reproductive harm.

Massachusetts "Right To Know" List

Present.

Rhode Island "Right To Know" List

Present.

Minnesota "Right To Know" List

Present.

New Jersey "Right To Know" List

Present.

Pennsylvania "Right To Know" List

Present.

Inventories

Canada - DSL/NDSL

DSL

US - TSCA

Present.

US - TSCA 12(b) Export Notification

This product does not contain substances subject to export notification under TSCA 12(b).

16. Other information

Revision date	4/15/2019
Supersedes date	11/3/2015
SDS No.	4667
ACA HMIS Health rating.	1
ACA HMIS Physical hazard rating.	0
ACA HMIS Personal protection rating.	E

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ACA HMIS Flammability rating. 0

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