



**SAFETY DATA SHEET**  
**ShaleProp Proppant (16/30, 16/20, 20/40, 30/50, 40/70)**

**1. Identification**

**Product identifier**

**Product name** ShaleProp Proppant (16/30, 16/20, 20/40, 30/50, 40/70)

**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** IMERYS Oilfield Solutions  
 3606 Research Forest Drive Suite 100  
 The Woodlands, TX 77381

**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**

**ShaleProp Proppant (16/30, 16/20, 20/40, 30/50, 40/70)**

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

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

**Composition comments** IMERYS ceramic proppant contains crystalline silica (cristobalite) in the matrix of the structure. However, because critobalite is bound in the proppant structure and because IMERYS 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).

**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/NOISH 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 contrainers 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.

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**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

#### Occupational exposure limits

#### **Ceramic material and wares, chemical**

Long-term exposure limit (8-hour TWA): OSHA 15 mg/m<sup>3</sup> total dust  
 Long-term exposure limit (8-hour TWA): ACGIH 2 mg/m<sup>3</sup> respirable fraction  
 Long-term exposure limit (8-hour TWA): OSHA 5 mg/m<sup>3</sup> 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.

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<b>Vapour density</b>	Not applicable.
<b>Auto-ignition temperature</b>	Not applicable.
<b>Explosive under the influence of a flame</b>	This product is not combustible or explosive.

### 10. Stability and reactivity

<b>Reactivity</b>	No specific reactivity hazards are associated with this product.
<b>Stability</b>	Stable under normal temperature conditions and recommended use.
<b>Possibility of hazardous reactions</b>	None known.
<b>Materials to avoid</b>	None known.
<b>Hazardous decomposition products</b>	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 Imerys is bound into the ceramic matrix and IMERYS has determined that the percentage of particles less than 100 micron (inhalable fraction) is below 0.1%. Therefore as produced, shipped and received, IMERYS 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).

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### 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.

##### **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**

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

### 16. Other information

<b>Revision date</b>	6/1/2015
<b>SDS No.</b>	4661
<b>ACA HMIS Health rating.</b>	1
<b>ACA HMIS Physical hazard rating.</b>	0
<b>ACA HMIS Personal protection rating.</b>	E
<b>ACA HMIS Flammability rating.</b>	0

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