



SAFETY DATA SHEET

Propynite®

1. Identification**Product identifier**

Product name Propynite®
Chemical name Ceramic (Silicate)
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**

Propynite®

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

The full text for all hazard statements is 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).

Propynite®

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

Propynite®

Occupational exposure limits

Ceramic material and wares, chemical

Long-term exposure limit (8-hour TWA): ACGIH 2 mg/m³ respirable fraction

Long-term exposure limit (8-hour TWA): OSHA 15 mg/m³ total dust

Long-term exposure limit (8-hour TWA): OSHA 5 mg/m³ respirable fraction

A4

ACGIH = American Conference of Governmental Industrial Hygienists.

OSHA = Occupational Safety and Health Administration.

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.
Vapor pressure	Not applicable.
Vapor 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.

Propynite®

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 sensitization

Skin sensitization 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).

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.

Propynite®

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	10/24/2017
SDS No.	5100
ACA HMIS Health rating.	1
ACA HMIS Flammability rating.	0
ACA HMIS Physical hazard rating.	0
ACA HMIS Personal protection rating.	E

Propynite®

ProLite®, ShaleProp™, ImerGrind™, and ImerBeads™ are registered trade marks of Imerys Oilfield Minerals Inc. This information and recommendations are believed to be accurate as of the date hereof. IMERYS makes no warranty, express or implied, or guarantee regarding the accuracy, reliability or completeness and disclaims all liability from reliance thereon. It is the user's responsibility to satisfy themselves as to the suitability and completeness of this information for their own particular use. Imerys is a business name of Imerys Oilfield Minerals, Inc. Registered in the USA. Registered office: 100 Mansell Court East, Suite 300, Roswell, Georgia 30076.