

Safety Data Sheet

1. IDENTIFICATION

Product Identifier PETROSET II™

Other means of identification

Synonyms None

Manufacturer/Importer/Supplier/Distributor Information

Manufacturer

Address Fluid Tech LLC

146 Industrial Park Road Sweetwater, TN 37874 USA

 Telephone
 (423) 271-6505

 Facsimile
 (800) 994-8561

 Website
 www.fluidtechllc

Website <u>www.fluidtechllc.com</u>
Email address <u>info@fluidtechllc.com</u>

Emergency Phone (865) 809-9995

Recommended Use PETROSET II™ is an organophilic solidifier which will

solidify most non-aqueous liquids, such as oils and other hydrocarbons. Under certain applications, may be used as a rheology modifier to increase viscosity for improved suspension of solids and emulsion stability.

Recommended Restrictions Industrial applications.

2. HAZARD(S) IDENTIFICATION

Physical hazards Not classified.

Health hazards Breathing crystalline silica can cause lung disease,

including silicosis and lung cancer.

Environmental hazards Toxic to aquatic life.

OSHA defined hazards Carcinogenicity – Category 1A - H350

Specific Target Organ Toxicity (Repeated Exposure) -

Category 1 - H372

Acute Aquatic Toxicity - Category 2 - H401.

Label elements

Pictograms



Signal words Danger

Hazard statement H350 May cause cancer.

H372 Causes damage to organs through prolonged or

repeated exposure.

H401 Toxic to aquatic life.

Prevention P201 Obtain special instructions before use

P202 Do not handle until all safety precautions have been

read and understood P260 - Do not breathe

dust/fume/gas/mist/vapors/spray

PETROSET II™ SDS Revision 04 1 of 11 FTL-080-0008 Revision Issue Date: March 10, 2022



P264 Wash face, hands and any exposed skin thoroughly after handling P270 - Do not eat, drink or smoke when

using this product

P273 Avoid release to the environment

P280 Wear protective gloves/protective clothing/eye

protection/face protection

Response P308 + P313 If exposed or concerned: Get medical

advice/attention

P314 Get medical attention/advice if you feel unwell

Storage P405 Store locked up

Disposal P501 Dispose of contents/container in accordance with

local/regional/national/international regulations

Hazard(s) not otherwise None known

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances

Substances	CAS Number	Percent (w/w)	GHS Classification - US
Crystalline silica, quartz	14808-60-7	1 - 5%	Carc. 1A (H350) STOT RE 1 (H372)
Bis(hydrogenated tallow alkyl) methylamines	61788-63-4	0.1 - 1%	Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Aquatic Acute 1 (H400)

4. FIRST-AID MEASURES

Inhalation If inhaled, remove to fresh air. If not breathing give artificial

respiration, preferably mouth-to-mouth. If breathing is difficult

give oxygen. Get medical attention.

Skin contact Wash off with soap and water. Get medical attention if irritation

develops and persists.

Eye contact In case of contact, immediately flush eyes with plenty of water

for at least 15 minutes and get medical attention if irritation

persists.

Ingestion Do NOT induce vomiting. Give nothing by mouth. Obtain

immediate medical attention.

Most important

symptoms/effects, acute

and delayed

Breathing crystalline silica can cause lung disease, including silicosis and lung cancer. Crystalline silica has also been

associated with scleroderma and kidney disease.

Indication of immediate medical attention and special treatment needed

Treat symptomatically.

General information

Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves. IF exposed or concerned: Get medical advice/attention. No hazards which require special first aid measures.



4. FIRE-FIGHTING MEASURES

Suitable extinguishing media Water fog, carbon dioxide, foam, dry chemical.

Unsuitable extinguishing

media

None known.

Specific hazards arising

from the chemical

Decomposition in fire may produce harmful gases.

Special protective equipment and precautions

for firefighters

Full protective clothing and approved self-contained breathing apparatus required for firefighting personnel.

6. **ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emergency

Use only competent persons for cleanup. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Do not breathe dust/fume/gas/mist/vapors/spray. Use appropriate protective equipment.

Environmental precautions

Prevent from entering sewers, waterways, or low areas.

Methods and material for containment and cleaning up

Collect using dustless method and hold for appropriate disposal. Consider possible toxic or fire hazards associated with contaminating substances and use appropriate methods

for collection, storage and disposal.

Cover powder spill with plastic sheet or tarp to minimize

spreading.

7. HANDLING AND STORAGE

Precautions for safe handling

Do not breathe dust/fume/gas/mist/vapors/spray. Ensure adequate ventilation. Use appropriate protective equipment. This product contains quartz, cristobalite, and/or tridymite which may become airborne without a visible cloud. Avoid breathing dust. Avoid creating dusty conditions. Use only with adequate ventilation to keep exposure below recommended exposure limits. Wear a NIOSH certified, European Standard En 149, or equivalent respirator when using this product. Material is slippery when wet. Avoid contact with eyes, skin, or clothing.

Conditions for safe storage, including any incompatibilities

Product has a shelf life of 24 months. Store in a cool, dry

location.



8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure limits

Substances	CAS Number	OSHA PEL-TWA	ACGIH TLV-TWA
Crystalline silica, quartz	14808-60-7	TWA: 50 µg/m³	TWA: 0.025 mg/m ³
Bis(hydrogenated tallow alkyl) methylamines	61788-63-4	Not applicable	Not applicable

Personal Protective If engineering controls and work practices cannot prevent

Equipment excessive exposures, the selection and proper use of personal

protective equipment should be determined by an industrial hygienist or other qualified professional based on the specific

application of this product.

Respiratory Protection If engineering controls and work practices cannot keep

exposure below occupational exposure limits or if exposure is unknown, wear a NIOSH certified, European Standard EN 149, AS/NZS 1715:2009, or equivalent respirator when using this product. Selection of and instruction on using all personal protective equipment, including respirators, should be performed by an Industrial Hygienist or other qualified

professional. Dust/mist respirator. (N95, P2/P3)

Hand Protection Use gloves which are suitable for the chemicals present in this

product as well as other environmental factors in the

workplace.

Skin Protection Wear clothing appropriate for the work environment. Dusty

clothing should be laundered before reuse. Use precautionary measures to avoid creating dust when removing or laundering

clothing.

Eye Protection Safety glasses with side-shields. If splashes are likely to

occur, wear: Goggles, Face-shield.

Other Precautions None known.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State: Powder Color: Tan

Odor: Mild Odor Threshold: No information available

Property Remarks/ Method Values

На No data available Freezing Point / Range No data available **Melting Point / Range** No data available **Boiling Point / Range** No data available **Flash Point** No data available Flammability (solid, gas) No data available Upper flammability limit No data available Lower flammability limit No data available **Evaporation rate** No data available **Vapor Pressure** No data available



Vapor Density No data available

Specific Gravity 1.6

Water Solubility Insoluble

Solubility in other solvents

No data available

Partition coefficient: n
No data available

octanol/water_

Autoignition TemperatureNo data availableDecompositionNo data available

Temperature

Viscosity No data available

Explosive PropertiesNo information available **Oxidizing Properties**No information available

10. STABILITY AND REACTIVITY

Reactivity Not expected to be reactive.

Chemical stability Stable.

Possibility of hazardous

reactions

Will not occur.

Conditions to avoid None anticipated.

Incompatible materials Strong oxidizers. Strong acids. Strong alkalis.

Hazards and decomposition Amorphous silica may transform at elevated temperatures to

products tridymite (870 C) or cristobalite (1470 C).

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Principle Route of Exposure Eye or skin contact, inhalation. Ingestion

Symptoms related to the physical, chemical and toxicological characteristics Acute Toxicity

Inhalation Inhaled crystalline silica in the form of quartz or cristobalite

from occupational sources is carcinogenic to humans (IARC, Group 1). There is sufficient evidence in

experimental animals for the carcinogenicity of tridymite

(IARC. Group 2A).

Breathing silica dust may cause irritation of the nose, throat, and respiratory passages. Breathing silica dust may not cause noticeable injury or illness even though permanent lung damage may be occurring. Inhalation of dust may also

have serious chronic health effects (See "Chronic

Effects/Carcinogenicity" subsection below).

Eye Contact May cause mechanical irritation to eye

Skin Contact May cause mild skin irritation.

Ingestion None known.



Chronic Effects Carcinogenicity

Silicosis: Excessive inhalation of respirable crystalline silica dust may cause a progressive, disabling, and sometimesfatal lung disease called silicosis. Symptoms include cough, shortness of breath, wheezing, non-specific chest illness, and reduced pulmonary function. This disease is exacerbated by smoking. Individuals with silicosis are predisposed to develop tuberculosis.

Cancer Status: The International Agency for Research on Cancer (IARC) has determined that crystalline silica inhaled in the form of quartz or cristobalite from occupational sources can cause lung cancer in humans (Group 1 - carcinogenic to humans) and has determined that there is sufficient evidence in experimental animals for the carcinogenicity of tridymite (Group 2A - possible carcinogen to humans). Refer to IARC Monograph 68, Silica, Some Silicates and Organic Fibres (June 1997) in conjunction with the use of these minerals. The National Toxicology Program classifies respirable crystalline silica as "Known to be a human carcinogen". Refer to the 9th Report on Carcinogens (2000). The American Conference of Governmental Industrial Hygienists (ACGIH) classifies crystalline silica, quartz, as a suspected human carcinogen (A2).

Toxicity data

Substances	CAS Number	LD50 Oral	LD50 Dermal	LC50 Inhalation
Crystalline silica, quartz	14808-60-7	15000 mg/kg (human)	No data available	No data available
Bis(hydrogenate d tallow alkyl) methylamines	61788-63-4	2000 mg/kg (Rat) 5000 mg/kg (Rat)	2000 mg/kg (Rabbit) (similar substance)	180 mg/L (Rat) 1h (similar substance)

Substances	CAS Number	Skin corrosion/irritation
Crystalline silica, quartz	14808-60-7	Non-irritating to the skin
Bis(hydrogenated tallow alkyl) methylamines	61788-63-4	Causes moderate skin irritation. (Rabbit)

Substances	CAS Number	Serious eye damage/irritation	
Crystalline silica, quartz	14808-60-7	Non-irritating to the eye	
Bis(hydrogenated tallow alkyl) methylamines	61788-63-4	Causes moderate eye irritation (Rabbit)	

Substances	CAS Number	Skin Sensitization
Crystalline silica, quartz	14808-60-7	No information available.
Bis(hydrogenated tallow	61788-63-4	Did not cause sensitization on laboratory
alkyl) methylamines	01700-03-4	animals (guinea pig)



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Substances	CAS Number	Respiratory Sensitization	
Crystalline silica, quartz	14808-60-7	No information available	
Bis(hydrogenated tallow	61788-63-4	No information available	
alkyl) methylamines			
Substances	CAS Number	Mutagenic Effects	
Crystalline silica, quartz	14808-60-7	Not regarded as mutagenic.	
Bis(hydrogenated tallow		In vitro tests did not show mutagenic effects. In	
alkyl) methylamines	61788-63-4	vivo tests did not show mutagenic effects.	
any) mearyianinee		vivo tooto did flot offow matageme encote.	
Substances	CAS Number	Carcinogenic Effects	
		Contains crystalline silica which may cause	
		silicosis, a delayed and progressive lung	
Caratallina cilica guertz	14000 60 7	disease. The IARC and NTP have determined	
Crystalline silica, quartz	14808-60-7	there is sufficient evidence in humans of the	
		carcinogenicity of crystalline silica with repeated	
		respiratory exposure.	
Bis(hydrogenated tallow	61788-63-4	No information available	
alkyl) methylamines	01100 00 1	The miletinguest available	
[a	10000	T=	
Substances	CAS Number	Reproductive toxicity	
Crystalline silica, quartz	14808-60-7	No information available	
Bis(hydrogenated tallow	04700 00 4	Animal testing did not show any effects on	
alkyl) methylamines	61788-63-4	fertility. Did not show teratogenic effects in	
		animal experiments. (similar substances)	
Substances	CAS Number	STOT - single exposure	
		No significant toxicity observed in animal studies	
Crystalline silica, quartz	14808-60-7	at concentration requiring classification.	
Bis(hydrogenated tallow	64700 62 4	·	
alkyl) methylamines	61788-63-4	No information available	
Substances	CAS Number	STOT - repeated exposure	
Crystalline silica, quartz	14808-60-7	Causes damage to organs through prolonged or repeated exposure if inhaled: (Lungs)	
Bis(hydrogenated tallow		No significant toxicity observed in animal studies	
alkyl) methylamines	61788-63-4	at concentration requiring classification. (similar	
antyly montylaminos		substances)	
Cubatanasa	CAC Number	A aminotion beyond	
Substances Crystalling silica, quartz	CAS Number	Aspiration hazard	
Crystalline silica, quartz	14808-60-7	Not applicable	
Bis(hydrogenated tallow	61788-63-4	Not applicable	
alkyl) methylamines			



12. ECOLOGICAL INFORMATION

Toxicity

Ecotoxicity Harmful to aquatic life.

Substance Ecotoxicity Data

Substances	CAS Number	Toxicity to Algae	Toxicity to Fish	Toxicity to Micro organisms	Toxicity to Invertebrates
Crystalline silica, quartz	14808-60-7	EC50 (72 h) =440 mg/L (Selenastrum capricornutum) (similar substance)	LL0 (96 h) =10000 mg/L (Danio rerio) (similar substance)	No information available	LL50 (24 h) >10000 mg/L (Daphnia magna)(similar substance)
Bis(hydrogenat ed tallow alkyl) methylamines	61788-63-4	ErC50 (72h) 0.12 mg/L (Selenastrum capricornutum) EC50 (72h) 0.05 mg/L (Pseudokirchneriella subcapitata)	LC50 (96h) > 1000 mg/L (Brachydanio rerio)	No information available	EC50 (48h) 50 mg/L (Daphnia magna) EC50 (48h) 35.2 mg/L (Daphnia magna) EC50 (48h) 10 mg/L (Daphnia magna)

Persistence and degradabilityCrystaline silica, quartz: The methods for determining biodegradability are not applicable to inorganic substances.

No information available

Bis(hydrogenated tallow alkyl) methylamines: Readily

biodegradable (100% @ 28d)

Bioaccumulative potential

Mobility in soil

Other adverse effects

No information available

No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal methods Disposal should be made in accordance with federal, state,

and local regulations.

Contaminated Packaging Follow all applicable national or local regulations.

14. TRANSPORT INFORMATION

DOT Not restricted.

TDG Not restricted.

IATA/ICAO Not restricted.

IMDG/IMO Not restricted.

Transport in bulk according to Annex 2.2 of MARPOL 73/78 and the IBC Code

Not applicable.



15. REGULATORY INFORMATION

US Regulations

US TSCA Inventory All components listed on inventory or are exempt.

TSCA Significant New Use Rules - S5A2

Substances	CAS Number	TSCA Significant New Use Rules - S5A2			
Crystalline silica, quartz	14808-60-7	Not applicable			
Bis(hydrogenated tallow alkyl) methylamines	61788-63-4	Not applicable			

EPA SARA Title III Extremely Hazardous Substances

Substances	CAS Number	EPA SARA Title III Extremely Hazardous Substances
Crystalline silica, quartz	14808-60-7	Not applicable
Bis(hydrogenated tallow alkyl) methylamines	61788-63-4	Not applicable

EPA SARA (311,312) Hazard Class Chronic Health Hazard

EPA SARA (313) Chemicals

Substances	CAS Number	Toxic Release Inventory (TRI) - Group I	Toxic Release Inventory (TRI) - Group II
Crystalline silica, quartz	14808-60-7	Not applicable	Not applicable
Bis(hydrogenated tallow alkyl) methylamines	61788-63-4	Not applicable	Not applicable

EPA CERCLA/Superfund Reportable Spill Quantity

Substances	CAS Number	CERCLA RQ
Crystalline silica, quartz	14808-60-7	Not applicable
Bis(hydrogenated tallow alkyl) methylamines	61788-63-4	Not applicable

EPA RCRA Hazardous Waste Classification If product becomes a waste, it does NOT meet the criteria of a hazardous waste as defined by the US EPA.

California Proposition 65

Substances	CAS Number	California Proposition 65
Crystalline silica, quartz	14808-60-7	carcinogen
Bis(hydrogenated tallow alkyl) methylamines	61788-63-4	Not applicable

U.S. State Right-to-Know Regulations

Substances	CAS Number	MA Right-to-Know Law	NJ Right-to- Know Law	PA Right-to- Know Law
Crystalline silica, quartz	14808-60-7	Carcinogen Extraordinarily hazardous	1660	Present
Bis(hydrogenated tallow alkyl) methylamines	61788-63-4	Not applicable	Not applicable	Not applicable

NFPA Ratings: Health 1, Flammability 0, Reactivity 0
HMIS Ratings: Health 1*, Flammability 0, Reactivity 0

Canadian Regulations

Canadian Domestic Substances List (DSL) All components listed on inventory or are

exempt.



16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

Issue date August 3, 2020 Revision date March 10,2022

Version # 04

Further information For additional information on the use of this product, contact

Fluid Tech LLC.

Disclaimer The information in the sheet was written based on the best

knowledge and experience currently available.

MANUFACTURER DISCLAIMER: The information given within this SDS is correct to the best of our knowledge, information and belief at the date of its revision and publication. However, the manufacturer makes no representation, warranty or guarantee as to its accuracy, reliability or completeness, nor assumes any liability for its use. It is the user's responsibility to confirm in advance that the information is current, applicable and suitable to their circumstances for each particular use. No representative of ours has authority to waive this provision. Please call for document accuracy if the revision date has exceeded 3 years.

Revision Information SDS sections updated:

Rev 1 12 Ecological Information, 13 Disposal Considerations. **Rev 2** 14 Transport Information and 15 Regulatory Information.

Rev 3 Contact information.

Rev 4 Addition of abbreviations and acronym information.

Key or legend to abbreviations and acronyms used in the safety data sheet

ADR The European Agreement concerning the International Carriage of Dangerous Goods by Road AS/NZS 1715 - New Zeland Standard on Selection, use and maintenance of respiratory protective equipment bw – body weight

C Celsius

CAS Chemical Abstracts Service

CLP REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL on Classification, Labelling and Packaging of substances and

mixtures

EC European Commission

EC10 Effective Concentration 10% EC50 – Effective Concentration 50% EEC –

European Economic Community

EN 149 European standard on filtering halfmasks to protect against particles

ErC50 Effective Concentration growth rate 50%

EN 374 European standard on Protective gloves against chemicals and micro-organisms

FFP - Filtering Facepieces

H Hour

IATA/ICAOInternational Air Transport Association / International Civil Aviation Organization

IBC Code International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk LC50 – Lethal Concentration 50%

IMDG/IMO International Maritime Dangerous Goods / International Maritime Organization

LD50 Lethal Dose 50% LL0 – Lethal Loading 0% LL50 – Lethal Loading 50%

MAK Maximum Workplace Concentration



MARPOL International Convention for the Prevention of Pollution from Ships mg/kg -

milligram/kilogram

mg/L Milligram/liter

mg/m³ Milligram/cubic meter mm - millimeter

mmHg Millimeter mercury

NIOSH National Institute for Occupational Safety and Health NOEC - No Observed Effect

Concentration

NDS Najwyisze dopuszczalne stkienie na stanowisku pracy

NDS OEL-TWA [Poland najwyisze dopuszczalne stkienie na stanowisku pracy]

NTP National Toxicology Program OEL – Occupational Exposure Limit

PBT Persistent Bioaccumulative and Toxic PC – Chemical Product category

PEL Permissible Exposure Limit ppm – parts per million

PROC Process category

REACH REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF

THE COUNCIL concerning the Registration, Evaluation, Authorization and

Restriction of Chemicals R/H-phrases - Risk/Hazard-phrases

RID The European Agreement concerning the International Carriage of Dangerous

Goods by Rail

STEL Short Term Exposure Limit SU – Sector of Use category SZW Netherlands Ministry of Social Affairs and Employment

TWA Time-Weighted Average

UK United Kingdom UN United Nations

VLA-EC Short-time excursion limits [Spain valores límite ambientales para la exposición de

corta duración]

VLA-ED Time-weighted average values for a whole work shift [Spain valores límite

ambientales para la exposición diaria]

VOC Volatile Organic Carbon

vPvB Very Persistent and very Bioaccumulative

w/w Weight/weight