

SAFETY DATA SHEET

P-FSC

CHEMICAL CODE: P-FSC

PRODUCT NAME: FREE WATER & SETTLING CONTROL ADDITIVE (POWDER)



NFPA RATING:

HEALTH HAZARD: 0 FLAMMABILITY: 0 REACTIVITY: 0 OTHER:

0=INSIGNIFICANT 1=SLIGHT 2=MODERATE 3=HIGH 4=EXTREME

1. IDENTIFICATION

Petrochem USA Identifier:
Recommended use
Recommended restrictions

P-FSC (Powder)

Free Water & Settling Control Additive

Workers (and your customers or users in the case of resale) should be informed of the potential presence of respirable dust and respirable crystalline silica as well as their potential hazards. Appropriate training in the proper use and handling of this material should be provided as required under applicable regulations.

Manufacturer
Address

Petrochem USA, Inc.

4111-D N.W. 132 Street

Opa Locka, Fl. 33054

305-685-8282

Telephone

Website

www.petrochem.us

E-mail:

info@petrochem.us

In case of emergency

1-800-424-9300 (INTERNATIONAL 1-703-527-3887)

24-HOUR EMERGENCY CONTACT: CHEMTREC - COLLECT CALLS ACCEPTED

2. HAZARDS IDENTIFICATION

Physical hazards

Not classified.

Health hazards

Specific target organ toxicity (repeated exposure) Category 2

Environmental hazards

Not classified.

OSHA defined hazards

Not classified.

Label elements



Signal word

Warning

Hazard statement

H373 - May cause damage to organs through prolonged or repeated exposure

Precautionary statement

P260 - Do not breathe dust, fumes, gas, mist, vapors, spray.

P-314 Get medical advice/attention if you feel unwell

P501 - Dispose of contents/ container to an approved waste disposal plant

Prevention

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves/protective clothing/eye protection/face protection.

Response

If exposed or concerned: Get medical advice/attention.

Storage

Store locked up.

Disposal

Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise classified (HNO): None known.



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3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Chemical name</u>	<u>Common name and synonyms</u>	<u>CAS number</u>	<u>%</u>
Silica – Crystalline, Quartz		14808-60-7	60-100%

4. FIRST AID MEASURES

Inhalation	Move to fresh air. If breathing is difficult, (trained personnel should) give oxygen. If not breathing, give artificial respiration. Obtain medical attention.
Skin contact	Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. Get medical attention immediately if symptoms occur.
Eye contact	Promptly wash eyes with lots of water while lifting eye lids. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.
Ingestion	If swallowed, do not induce vomiting - seek medical advice. Rinse mouth. Do not give anything by mouth to an unconscious person.

Most important symptoms/effects, acute and delayed: The severity of the symptoms described will vary dependent of the concentration and the length of exposure. If adverse symptoms develop, the casualty should be transferred to hospital as soon as possible.

Indication of immediate Medical attention and special treatment needed: Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

General information If exposed or concerned: Get medical advice/attention. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

5. FIRE FIGHTING MEASURES

Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO ₂).
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	During fire, gases hazardous to health may be formed.
Special protective equipment and precautions for firefighters:	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Firefighting equipment/instructions	Use water spray to cool unopened containers.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards	No unusual fire or explosion hazards noted.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment & emergency procedures: Wear suitable protective equipment. See also section 8. Do not breathe dust. If spilled, take caution, as material can cause surfaces to become very slippery.

Methods & materials for containment and cleaning up: Avoid dust formation. Sweep up and shovel into suitable containers for disposal.

Environmental precautions: Avoid discharge into drains, water courses or onto the ground.



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7. HANDLING & STORAGE

Precautions for safe handling: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep formation of airborne dusts to a minimum. Provide appropriate exhaust ventilation at places where dust is formed. Do not breathe dust. Avoid prolonged exposure. Should be handled in closed systems, if possible. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities: Store locked up. Provide appropriate exhaust ventilation at places where dust is formed. Keep containers tightly closed in a dry, cool and well-ventilated place. Incompatible with oxidizing agents. Store in original tightly closed container only.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

Occupational exposure limits

US. OSHA Table Z-3 (29 CFR 1910.1000)

Components	CAS#	Type	Value	Form
Silica - Crystalline, Quartz	14808-60-7	TWA	0.3 mg/m ³	Total dust.
			0.1 mg/m ³	Respirable.
			2.4 mppcf	Respirable.

US. ACGIH Threshold Limit Values

Components	CAS#	Type	Value	Form
Silica - Crystalline, Quartz	14808-60-7	TWA	0.025 mg/m ³	Respirable.

US. NIOSH: Pocket Guide to Chemical Hazards

Components	CAS#	Type	Value	Form
Silica - Crystalline, Quartz	14808-60-7	TWA	0.05 mg/m ³	Respirable dust.

Biological limit values

No biological exposure limits noted for the ingredient(s).

Exposure guidelines

Occupational exposure to nuisance dust (total and respirable) and respirable crystalline silica should be monitored and controlled. All chemical Personal Protective Equipment (PPE) should be selected based on an assessment of both the chemical hazard present and the risk of exposure to those hazards. The PPE recommendations below are based on an assessment of the chemical hazards associated with this product. Where this product is used in a mixture with other products or fluids, additional hazards may be created and as such further assessment of risk may be required. The risk of exposure and need of respiratory protection will vary from workplace to workplace and should be assessed by the user in each situation.

Appropriate engineering controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Individual protection measures, such as personal protective equipment

Eye/face protection

Wear dust resistant safety goggles where there is a danger of eye contact.

Skin/Hand protection

Wear appropriate chemical resistant gloves, (Rubber gloves, PVC disposable gloves, Neoprene gloves).

Other

Wear appropriate personal protective clothing to prevent skin contact, Eye wash and emergency shower must be available at the work place.



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Respiratory protection

Respirator must be worn if exposed to dust, Use NIOSH approved respirator with dust and mist protection (3M 8210). If dust concentration exceeds 5 times the exposure limit, wear an approved HEPA respirator.

Thermal hazards

Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

Ensure the application of strict rules of hygiene by the personnel exposed to the risk of contact with the product. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. PHYSICAL & CHEMICAL PROPERTIES

Appearance

Physical state

Solid.

Form

Powder.

Color

Grey/White.

Odor

Slight Odor

pH

6-9

Melting point/freezing point

Not available.

Initial boiling point and boiling range

Not applicable.

Flash point

Not applicable.

Evaporation rate

Not available.

Flammability (solid, gas)

Not applicable.

Upper/lower flammability or explosive limits

Not available.

Flammability limit – lower (%)

Not available.

Flammability limit – upper (%)

Not available.

Explosive limit - lower (%)

Not available.

Explosive limit - upper (%)

Not available.

Vapor pressure

Not available.

Vapor density

Not available.

Relative density

Not available.

Solubility (water)

5%

Partition coefficient (n-octanol/water)

Not available.

Auto-ignition temperature

Not available.

Decomposition temperature

Not available.

Viscosity

Not available.

Explosive properties

Not explosive.

Flammability class

Not available.

Oxidizing properties

Not oxidizing.

Specific gravity

1.298

Absolute Volume

0.0924



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10. STABILITY & REACTIVITY

Reactivity

React with hydrofluoric acid (HF) forming toxic gas (SiF4).

Chemical stability

Stable under normal temperature conditions and recommended use.

Possibility of hazardous reactions

Hazardous polymerization does not occur.

Hazardous Reactions

Non-combustible, substance itself does not burn but may decompose upon heating to produce corrosive and/or toxic fumes.

Conditions to avoid

Heat. Avoid strong sunlight. Avoid dust formation.

Incompatible materials

Incompatible with oxidizing agents.

Hazardous decomposition products

Thermal decomposition can lead to release of irritating gases and vapors.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

- **Inhalation**

May cause damage to organs through prolonged or repeated exposure.

May cause irritation of respiratory tract.

- **Skin contact**

May cause skin irritation and/or dermatitis.

- **Eye contact**

May cause irritation.

- **Ingestion**

Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

COMPONENT	LD50 ORAL	LD50 DERMAL	LC50 INHALATION
Quartz, Crystalline silica	= 500 mg/kg (Rat)	No data available	No data available

COMPONENT	IARC GROUP 1 OR 2	ACGIH – CARCINOGENS	OSHA LISTED CARCINOGENS	NTP
Quartz, Crystalline silica	Group 1; Monograph 100C [in preparation] Group 1; Monograph 68 [1997] Monograph 100C [in preparation] (listed under Crystalline silica inhaled in the form of quartz or cristobalite from occupational sources); Monograph 68 [1997]	A2 – Suspected Human Carcinogen	Listed	Known Human Carcinogen

Sensitization

This product does not contain any components suspected to be sensitizing.

Mutagenic effects

No evidence of mutagenic properties.

Carcinogenicity

In 1997, IARC (the International Agency for Research on Cancer) concluded that crystalline silica inhaled from occupational sources can cause lung cancer in humans. However in making the overall evaluation, IARC noted that "carcinogenicity was not detected in all industrial circumstances studied. Carcinogenicity may be dependent on inherent characteristics of the crystalline silica or on external factors affecting its biological activity or distribution of its polymorphs." (IARC Monographs on the evaluation of the carcinogenic risks of chemicals to humans, Silica, silicates dust and organic fibers, 1997, Vol. 68, IARC, Lyon, France.) In June 2003, SCOEL (the EU Scientific Committee on Occupational Exposure Limits) concluded that the main effect in humans of the inhalation of respirable crystalline silica dust is silicosis.



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"There is sufficient information to conclude that the relative risk of lung cancer is increased in persons with silicosis (and, apparently, not in employees without silicosis exposed to silica dust in quarries and in the ceramic industry). Therefore, preventing the onset of silicosis will also reduce the cancer risk..." (SCOEL SUM Doc 94-final, June 2003) According to the current state of the art, worker protection against silicosis can be consistently assured by respecting the existing regulatory occupational exposure limits. May cause cancer. Occupational exposure to respirable dust and respirable crystalline silica should be monitored and controlled.

Reproductive toxicity	No evidence of toxicity to reproduction.
Developmental toxicity	Not known to cause birth defects or have a deleterious effect on a developing fetus.
Routes of exposure	Inhalation. Eye contact. Skin contact.
Routes of entry	Inhalation. Skin contact. Eye contact.
Specific target organ toxicity (single exposure)	Not classified
Specific target organ toxicity (repeated exposure)	Category 2.
Target organ effects	Respiratory system. Lungs.
Aspiration hazard	No hazard from product as supplied.

12. ECOLOGICAL INFORMATION

Ecotoxicity	No ecotoxicity data noted for the ingredient(s).
Toxicity to algae	This product is not considered toxic to algae.
Toxicity to fish	This product is not considered toxic to fish.
Toxicity to daphnia and other aquatic invertebrates	This product is not considered toxic to invertebrates.
Persistence and degradability	No data is available on the degradability of this product.
Bio accumulative potential	No data available.
Mobility in soil	The product is insoluble and sinks in water.
Other adverse effects	None known.

13. DISPOSAL CONSIDERATIONS

Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.
Local disposal regulations	Dispose in accordance with all applicable regulations.
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Waste from residues / unused products	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.



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14. TRANSPORT INFORMATION

UN NO. (DOT)	Not Regulated
UN NO. (TDG)	Not Regulated
UN/ID NO. (ADR/RID/ADN/ADG)	Not Regulated
UN NO. (IMDG)	Not Regulated
UN NO. (ICAO)	Not Regulated
DOT HAZARD CLASS	Not Regulated
TDG HAZARD CLASS	Not Regulated
ADR/RID/ADN/ADG HAZARD CLASS	Not Regulated
IMDG HAZARD CLASS	Not Regulated
ICAO HAZARD CLASS/DIVISION	Not Regulated
DOT PACKING GROUP	Not Regulated
TDG PACKING GROUP	Not Regulated
ADR/RID/ADN/ADG PACKING GROUP	Not Regulated
IMDG PACKING GROUP	Not Regulated
ICAO PACKING GROUP	Not Regulated

15. REGULATORY INFORMATION

International Inventories

USA (TSCA)	Complies
Canada (DSL)	Complies
Mexico (INSQ)	Does not Comply
European Union (EINECS and ELINCS)	Complies
Philippines (PICCS)	Does not Comply
Japan (ENCS)	Does not Comply
China (IECSC)	Complies
Australia (AICS)	Complies
Korean (KECL)	Complies
New Zealand (NZIoC)	Complies

U.S. Federal and State Regulations

SARA 311/312 Hazard Categories

Delayed (chronic) health hazard.

Component	SARA 302 / TPQs	SARA 313	CERCLA RQ
Quartz, Crystalline silica	N/A	N/A	N/A

State Comments

Proposition 65: This product contains chemical(s) considered by the State of California's Safe Drinking Water and Toxic Enforcement Act of 1986 to cause cancer and/or reproductive toxicity.

Quartz, Crystalline silica

Carcinogen

Canadian Classification

This Safety Data Sheet has been prepared in compliance with the Hazardous Products Regulations.



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

Issue date: 9/29/15

Version # 1.5

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