

innovative turf solutions

Safety Data Sheet

Rev. Date: 06/10/2015

1. PRODUCT AND COMPANY IDENTIFICATION

FLOC 06, 06+, 38

Waste Treatment Application Formulation
Product mixture
Product Code: FLOC Clay based flocculant

Innovative Turf Solutions, LLC
3318 Glenmont Lane
Cincinnati, OH 45248
Website: www.innovativeturfsolutions.com

1-513-317-8311 Telephone
1-513-317-8311 Product Information number
1-513-672-9633 Fax number
1-513-317-8311 Emergency number

2. HAZARDS IDENTIFICATION

Physical Hazards: Not Classified

Health Hazards: Acute Toxicity, Oral Category 5
Carcinogenicity, Category 1A
Eye Damage/Irritation Category 2B
Skin Corrosion/Irritation Category 2
Specific Target Organ Toxicity-Repeated Exposure Category 1

Signal Word: DANGER

Hazard Statement: H303 May be harmful if swallowed
H320 Causes eye irritation
H315 Causes skin irritation
H350 May cause cancer by inhalation

H372 Causes damage to organs through prolonged or repeated exposure if inhaled

GHS Symbol:



Precautionary Statements

General: P102 Keep out of reach of children

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
P264 Wash face, hands and any exposed skin thoroughly after handling
P270 Do not eat, drink or smoke when using this product
P280 Wear protective gloves/protective clothing/eye protection/face protection

Response: P302+P352 IF ON SKIN: Wash with plenty of soap and water
P305+P338+P351 IF IN EYES: Rinse cautiously with water for several minutes.
Remove contact lenses, if present and easy to do so.
Continue rinsing
P308+P332+P337+P313 If eye irritation, skin irritation, rash or if exposed or
Concerned: Get medical advise/attention
P312 Call a POISON CENTER or doctor/physician if you feel unwell
P314 Get medical advice/attention if you feel unwell
P321 Specific treatment (see Section 4)
P362 Take off contaminated clothing and wash before reuse

Storage: P405 Store locked up

Disposal: P501 Dispose of contents/container with compliance to federal, state and local regulations. Contact Innovative Turf Solutions, LLC for proper disposal options

3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms: Water Treatment Application Formulation

Formula: Product Mixture

Component	CAS Number	Concentration %
Bentonite	1302-78-9	60-100
Additive Package – Trade Secret		0-60
Crystalline Silica Quartz	14808-60-7	1-5
Crystalline Silica Cristobalite	14464-46-1	0.1-1
Crystalline Silica Tridymite	15468-32-3	0.1-1

4. FIRST AID MEASURES

Eyes

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention if irritation persists.

Inhalation

If breathing difficulty exists, remove individual away into fresh air. Seek medical attention if respiratory irritation develops or if breathing becomes difficult.

Skin

Wash area repeatedly with soap and water. Get medical attention if irritation persists.

Ingestion

Under normal conditions, first aid procedures are not required

Special Treatment

Treat symptomatically

Most important symptoms/effects, acute and delayed

Repeated occurrence of breathing crystalline silica can cause lung disease, including silicosis and lung cancer. Crystalline silica has also been associated with scleroderma and kidney disease.

5. FIREFIGHTING MEASURES

Suitable extinguishing media

All standard firefighting media

Specific hazards from combustion

Not applicable

Special protective equipment for fire-fighters

Not applicable

6. ACCIDENTAL RELEASE MEASURES**Personal precautions and Protective equipment**

Personal Protection, see section 8. Avoid creating and breathing dust. Use appropriate protective equipment.

Emergency procedures

For personal emergency procedures see section 4. For fire emergency procedures see section 5. Contain any spilled product and reuse if possible.

Environmental precautions

None known

Methods and materials for containment and cleaning up

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

7. HANDLING AND STORAGE**Precautions for safe handling**

This product contains quartz, cristobalite, and/or tridymite which may become airborne without a visible cloud. Avoid breathing dust. Avoid creating dusting conditions. Use only with adequate ventilation to keep exposure below recommended exposure limits. Wear a NIOSH certified, or equivalent respirator when using this product. Material is slippery when wet.

Conditions for safe storage

Use good housekeeping in storage and work areas to prevent accumulation of dust. Close container when not in use. Do not reuse empty container.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

OSHA Final: (TWA), (PEL):

No data available

American Conference of Governmental Industrial Hygienists (ACGIH) Threshold Limit Value (TWA): Crystalline Silica:

Quartz 14808-60-7 - 0.05 mg/m³

Cristobalite 14464-46-1 – 0.05 mg/m³

Tridymite 15468-32-3 – 0.05 mg/m³

Respiratory protection

Not normally needed. If significant exposures are possible then the following respirator is recommended: Dust/mist respirator. (N95, P2/P3)

Hand protection

Normal work gloves.

Eye protection

Wear safety glasses or goggles to protect against exposure.

Skin and body 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.

Hygiene measures

Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Various

Physical state: Solid

Odor: Odorless

Specific gravity (H₂O=1): 2.65

Melting point/freezing point: No data available

Initial boiling point and boiling range: No data available

Flash point (C.O.C): No data available

Upper/lower flammability or explosive limits: No data available

Vapor pressure: No data available

Solubility in water: Insoluble

Percent volatile by volume: No data available

pH: 4.0-8.0

Evaporation rate: Not determined

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: Hydrofluoric acid

Hazardous decomposition products: Amorphous silica may transform at elevated temperatures to tridymite (870°C) or cristobalite (1470°C)

11. TOXICOLOGICAL INFORMATION

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

Acute inhalation toxicity:

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 1). 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.

Eye Contact: May cause mechanical irritation to eyes.

Skin Contact: May cause mechanical skin irritation.

Ingestion: None known

Chronic Effects/Carcinogenicity:

Silicosis: Excessive inhalation of respirable crystalline silica dust may cause a progressive, disabling, and sometimes-fatal 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 2A – possible carcinogenic 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). There is some evidence that breathing respirable crystalline silica or the disease silicosis is associated with an increased incidence of significant disease endpoints such as scleroderma (an immune system disorder manifested by scarring of the lungs, skin, and other internal organs) and kidney disease.

Toxicology data for the components: No data available

Skin corrosion/irritation: May cause irritation, allergic skin reaction.

Eye damage/irritation: May cause mechanical irritation of the eyes is possible

Skin sensitization: Not regarded as a sensitizer

Respiratory sensitization: Not regarded as a sensitizer

Mutagenic Effects: Not regarded as a mutagenic

Reproductive toxicity: No data available

STOT single: No data available

STOT repeated exposure: Damage to lungs by repeated or prolonged exposure if inhaled

12. ECOLOGICAL INFORMATION

Biodegradability: No data available

Bioaccumulation: No data available

Toxicity to fish: No data available

Toxicity to invertebrates: No data available

Toxicity to algae: No data available

Toxicity to bacteria: No data available

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods: Dispose of in a licensed landfill according to federal, state and local regulations.

Contaminated Packaging: Follow all applicable national or local regulations.

14. TRANSPORT INFORMATION

UN number:	Not regulated
UN proper shipping name:	Not regulated
Transport hazard class:	Not regulated
Packing group:	Not regulated
Environmental hazards:	Not regulated
U.S. DOT Road/Rail/Waterways:	Not regulated
Transport Canada Road/Rail/Waterways:	Not regulated
International Maritime Dangerous Goods:	Not regulated

15. REGULATORY INFORMATION

The regulatory information is not intended to be comprehensive. Other regulations may apply to this material.

Federal Regulatory Status

Notification Status

EINECS All components listed

DSL All components listed

TSCA All components listed

SARA Section (313)

Not applicable

SARA Hazard Categories (311/312)

Chronic Health Hazard

Canadian WHMIS: Not applicable

State Regulatory Status

California Safe Drinking Water and Toxic Enforcement Act (Proposition 65)

The California Proposition 65 regulations apply to this product.

NFPA Hazard Classification

Health: 1
Flammability: 0
Reactivity: 0

HMIS Classification

Health: 1
Flammability: 0
Physical Hazards: 0
Personal Protection: B



HEALTH	1
FLAMMABILITY	0
PHYSICAL HAZARD	0
PERSONAL PROTECTION	B

16. OTHER INFORMATION

The information accumulated herein is believed to be accurate. Innovative Turf Solutions, LLC assumes no liability whatsoever for the accuracy or completeness of the information provided herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist.