Material Safety Data Sheet

Concrete Densifier

Section 1. Product and Company Indentification

Product name: MS Li Densifier

Tradenames: Silicapreparation PPC Concrete Densifier, MS Li Densifier **Product Uses:** hardens and densifies cement, mortar, concrete, stucco, faux stone and related products. **Revision Date:** April 27, 2010

Company : PPC Proven Performance Chemicals, 370 Commerce Blvd., Bogart, GA 30622; Phone 706-355-3217, Fax 706-355-9199

Emergency Phone Number : 706-549-6786

Section 2. Composition and Ingredients

Formula: O2Si CAS-No. EC-No. Index-No. Concentration
Silicon dioxide: 7631-86-9 231-545-4 - >= 14.5 - <= 50 %
Water: 7732-18-5 231-791-2 - >= 50 - <= 86 %
Sodium hydroxide: 1310-73-2 215-185-5 011-002-00-6 >= 0.05 - <= 0.6 %
Mixture of 5-Chloro-2-methyl-4-isothiazolin-3-one and 2-Methyl-2H -isothiazol-3-one (3:1)
55965-84-9 - 613-167-00-5 < 0.003 %

Section 3. Hazards Indentification

Emergency Overview

OSHA Hazards

Carcinogen, Target Organ Effect, Irritant **Due to high pH of product, release into surface water is harmful to aquatic life. Noncombustible. Spills are slippery. Reacts with acids, ammonium salts, reactive metals and some organics**.

Target Organs: Lungs

GHS Label elements, including precautionary statements

Signal Word: Warning

Hazard statement(s):

H319 Causes serious eye irritation

H335 May cause respiratory irritation

Precautionary statement(s)

P261 Avoid breathing dust/fume/gas/mist/vapours/spray

P305 + P351 + P338 **IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

HMIS Classification

Health hazard: 2

Chronic Health Hazard: *

Flammability: 0

Physical hazards: 0

NFPA Rating

Health Hazard: 2

Fire: 0

Reactivity Hazard: 0

Section 4. Potential Health Effects

Inhalation: May be harmful if inhaled. Causes respitory tract irritation

Skin: May be harmful if absorbed through skin. Causes skin irritation.

Eyes: Causes eye irritation

Ingestion: If swallowed, DO NOT induce vomiting. Get medical attention immediately. If victim is fully conscious, give a cupful of water. Never give anything by mouth to an unconscious person.

Section 5. FIRST AID MEASURES

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.
If inhaled
If breathed in, move person into fresh air. If not breathing give artificial respiration Consult a physician.
In case of skin contact
Wash off with soap and plenty of water. Consult a physician.
In case of eye contact
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed
Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Section 6. FIRE-FIGHTING MEASURES

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special protective equipment for fire-fighters
Wear self contained breathing apparatus for fire fighting if necessary.

Section 7. ACCIDENTAL RELEASE MEASURES

Personal precautions:
Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation.

Environmental precautions:
Do not let product enter drains. **Sinks and mixes with water. High pH of this material is harmful to aquatic life, see Section 12. Only water will evaporate from a spill of this material.**

Methods and materials for containment and cleaning up:
Keep unnecessary people away; isolate hazard area and deny entry. Do not touch or walk through spilled material. Stop leak if you can do so without risk. Prevent runoff from entering into storm sewers and ditches which lead to natural waterways. Isolate, dike and store discharged material, if possible. Use sand or earth to contain spilled material.

CERCLA RQ: **There is no CERCLA Reportable Quantity for this material. If a spill goes off site, notification of state and local authorities is recommended.**

Section 8. HANDLING AND STORAGE

Precautions for safe handling
Avoid contact with eyes, skin and clothing. Avoid breathing spray mist. Keep container closed. Promptly clean residue from closures with cloth dampened with water. Promptly clean up spills.
Conditions for safe storage
Keep containers closed. Store in clean plastic containers. Separate from acids, reactive metals, and ammonium salts. Recommended storage temperature 15º-60º C (59º-140º F). Do not store in aluminum, steel, fiberglass, copper, brass, zinc or galvanized containers.

Section 9. EXPOSURE CONTROLS/PERSONAL PROTECTION

Contains no substances with occupational exposure limit values.
Personal protective equipment
Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand protection
Handle with gloves.
Eye protection
Face shield and safety glasses
Skin and body protection
Choose body protection according to the amount and concentration of the dangerous substance at the work place.
Hygiene measures
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Section 10. PHYSICAL AND CHEMICAL PROPERTIES

Appearance
Form liquid
Safety data
Appearance: **Liquid.**
Color: **Clear to opalescent white.**
Odor: **Odorless or musty odor.**
pH: **Approximately 10.8**
Density: **1.2 g/cm3 (20ºC); 25º Bé; 10.0 lbs/gal**
Solubility in water: **Miscible.**

Section 11. STABILITY AND REACTIVITY

Chemical stability
Stable under recommended storage conditions.
Conditions to avoid
no data available
Materials to avoid: **Gels and generates heat when mixed with acid. Absorbs carbon dioxide on exposure to air. May react with ammonium salts resulting in evolution of ammonia gas. Flammable hydrogen gas may be produced on contact with aluminum, tin, lead, and zinc.**
Hazardous decomposition products
Hydrogen.

Section 12. TOXICOLOGICAL INFORMATION

Acute toxicity
Skin corrosion/irritation
no data available

Serious eye damage/eye irritation
Eyes: no data available
Respiratory or skin sensitization
no data available
Germ cell mutagenicity
no data available

Carcinogenicity
IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.
Reproductive toxicity
no data available
Specific target organ toxicity - single exposure (GHS)
no data available
Specific target organ toxicity - repeated exposure (GHS)
no data available
Aspiration hazard
no data available
Potential health effects
Inhalation May be harmful if inhaled. Causes respiratory tract irritation.
Ingestion May be harmful if swallowed.
Skin May be harmful if absorbed through skin. Causes skin irritation.
Eyes Causes eye irritation.
Signs and Symptoms of Exposure
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.
Additional Information

Section 13. ECOLOGICAL INFORMATION

Toxicity
no data available
Persistence and degradability
no data available
Bioaccumulative potential
no data available
Mobility in soil
no data available
PBT and vPvB assessment
no data available
Other adverse effects
no data available

Section 14. DISPOSAL CONSIDERATIONS

Product
Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service
to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator
equipped with an afterburner and scrubber.

Contaminated packaging
Dispose of as unused product.

Section 15. TRANSPORT INFORMATION

DOT (US)
Not dangerous goods
IMDG
Not dangerous goods
IATA
Not dangerous goods

Section 16. REGULATORY INFORMATION

OSHA Hazards
Carcinogen, Target Organ Effect, Irritant
DSL Status
This product contains the following components that are not on the Canadian DSL nor NDSL lists.
Silicon dioxide
CAS-No.
7631-86-9
SARA 302 Components
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
SARA 313 Components
SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold
(De Minimis) reporting levels established by SARA Title III, Section 313.
SARA 311/312 Hazards
Acute Health Hazard, Chronic Health Hazard
Massachusetts Right To Know Components
Silicon dioxide
CAS-No.
7631-86-9
Revision Date
1989-12-01
Pennsylvania Right To Know Components
Water
CAS-No.
7732-18-5
Revision Date
Silicon dioxide 7631-86-9 1989-12-01
New Jersey Right To Know Components
Water
CAS-No.
7732-18-5
Revision Date
Silicon dioxide 7631-86-9 1989-12-01
California Prop. 65 Components
This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

Section 17. OTHER INFORMATION

Further information
The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. PPC shall not be held liable for any damage resulting from handling or from contact with the above product.

Proven Performance Chemicals 370 Commerce Boulevard, Bogart, Georgia 30622
Emergency Phone Number: 678-729-9333
Technical Information: 706-355-3217
Fax Number: 706-355-9199