

Material Safety Data Sheet

Densifier RBP with Rebar Protection

Section 1. Product and Company Identification

Product name: MS Li Densifier RBP

Trade names: Silica preparation PPC Concrete Densifier, MS Li Densifier, Densifier RBP **Product Uses:** hardens and densifies cement, mortar, concrete, stucco, faux stone and related products while reducing oxidization of metal rebar in concrete. **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 - \geq 14.5 - \leq 50 %

Water: 7732-18-5 231-791-2 - \geq 50 - \leq 86 %

Sodium hydroxide: 1310-73-2 215-185-5 011-002-00-6 \geq 0.05 - \leq 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 Identification

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/vapors/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 respiratory 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 15°-60° C (59°-140° 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 (20°C); 25° 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

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 16. 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

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