

POWERSTAR® 1100 DENSIFYING TREATMENT

1: PRODUCT AND COMPANY IDENTIFICATION

Product Name: PowerStar® 1100 Densifying Treatment
 Product Type: Concrete densifying solution

Product Number: 419

Manufacturer Address:

Amano Pioneer Eclipse Corporation
 P.O. Box 909
 1 Eclipse Road
 Sparta, NC 28675

Contact Information:

Telephone: 1-336-372-8080
 Email: msds@pioneer-eclipse.com
 Internet: www.pioneer-eclipse.com

FOR CHEMICAL EMERGENCY: Spill, Leak, Fire, Exposure or Accident. Call CHEMTREC Day or Night.
 Within USA and Canada 1-800-424-9300. Outside USA and Canada +1 703 527 3887 (collect calls accepted)

2: HAZARDS IDENTIFICATION

OSHA status: Hazardous

Precautions: Warning. Irritant. Avoid contact with skin and eyes. Use in well-ventilated area. Keep out of the reach of children. Keep container closed when not in use.

Potential Health Effects:

Eye Contact: Causes eye irritation.

Skin Contact: Causes skin irritation.

Inhalation: The vapor or fumes from this product may cause respiratory irritation.

Ingestion: May cause headache, dizziness, nausea and vomiting.

Health: 2
 Flammability: 0
 Reactivity: 0

3: COMPOSITION/INFORMATION ON INGREDIENTS

| Hazardous Ingredient | CAS Number | Weight % |
|----------------------|------------|----------|
| Silica, amorphous | 7631-86-9 | 10 - 30 |

4: FIRST AID MEASURES

Eye Contact: Rinse with plenty of water. If irritation persists, seek medical attention.

Skin Contact: Wash with soap and plenty of water. If irritation persists, seek medical attention.

Inhalation: If breathing is difficult, remove to fresh air. If symptoms persist, seek medical attention.

Ingestion: If swallowed, do not induce vomiting. Seek medical attention immediately.

5: FIRE FIGHTING MEASURES

Extinguishing Media: Dry chemical, water spray, carbon dioxide
 First responders should wear full-bunker gear with SCBA, never enter a confined space unless fully protected with proper personal protective equipment.

Special Fire Fighting Procedures:

Hazardous Combustible Products: Oxides of carbon and silicate

Unusual Fire and Explosion Hazards: Materials can splatter above 212 °F / 100 °C

6: ACCIDENTAL RELEASE MEASURES

Personal Precautions: Put on personal protective equipment (see Section 8). Keep spectators away. Floors may be slippery: use care to avoid falling.

Environmental Precautions: Keep spills and cleaning run-off out of sewers and open bodies of water.

Containment and Clean-Up

Small Spills: Absorb spill with inert material (e.g. sand, earth) and dispose of as waste material in accordance with local, state and federal regulations.

Large Spills: Dike and contain spill with inert material (e.g. sand, earth). Transfer liquid to containers for recovery or disposal and solid diking material to separate contains for disposal.

Waste Disposal: Landfill or incinerate the contaminated solids and diking material in accordance with local, state and federal regulations. Non-salvageable liquid should be drummed and disposed of in accordance with local, state and federal regulations.

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7: HANDLING AND STORAGE

Handling: Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Use only in well-ventilated areas. Avoid breathing vapors or mists. Remove and wash contaminated clothing and footwear before re-use.

Storage: Storage temperature (Max. 60°C/140°F - Min. 1°C/34°F)

Other information: Keep from freezing, product may coagulate. Keep container sealed when not in use. Keep out of reach of children.

8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits: None

Engineering Controls: Ensure adequate general ventilation.

Personal Protective Equipment (PPE)

Eye/Face Protection: Safety glasses recommended

Skin Protection: Chemical resistant gloves recommended

Respiratory Protection: Wear an approved respiratory if airborne concentrations exceed recommended exposure limits.

9: PHYSICAL AND CHEMICAL PROPERTIES

| | |
|---|---|
| Appearance: clear, colorless liquid | Odor: No fragrance added |
| Odor Threshold: N/E | pH: 6.5 |
| Freezing Point: 32 °F / 0°C | Boiling Point: 212 °F / 100 °C |
| Flash Point: Not flammable | Evaporation Rate (water=1): > 1 |
| Flammability: N/E | Upper/Lower Flammability limits: N/E |
| Vapor Pressure: less than water | Vapor Density (water=1): > 1 |
| Relative Density: 8.6 lb/gal @ 68°F / 1.03 kg/L @ 20°C | Solubility: 100% soluble in water |
| Partition Coefficient (n-octanol/water): N/E | Auto Ignition temperature: N/E |
| Decomposition Temperature: N/E | Viscosity: < 10 centipoise @ 68 °F (20 °C) |
| VOC: < 50 g/L | |

10: STABILITY AND REACTIVITY

Stability: Stable under normal conditions

Conditions to avoid: None known

Incompatible materials: Avoid strong acids and oxidizing agents

Hazardous decomposition products: If complete, combustion oxides of carbon and silicate are formed.

Hazardous reactions: None known

11: TOXICOLOGICAL INFORMATION

Acute Toxicity: Not determined on product.

| Ingredient | LD50 Oral-Rat (mg/kg) | LD50 Dermal - Rabbit (mg/kg) | LC50 Inhalation-Rat (mg/L) | Carcinogenicity | CA - Prop 65 |
|-------------------|-----------------------|------------------------------|----------------------------|-----------------|--------------|
| silica, amorphous | > 5000 | > 2000 | > 2.2 | not listed | not listed |

LOCAL EFFECTS

Skin contact: May cause irritation

Eye contact: May cause irritation

Sensitization: None expected

Chronic effects: None expected

SPECIFIC EFFECTS

Carcinogenicity: None known

Reproductive effects: None known

Teratogenicity: None known

Mutagenicity: None known

12: ECOLOGICAL INFORMATION

Ecological data not available.

13: DISPOSAL CONSIDERATIONS

Disposal of this material should be in accordance with local, regional, and national regulations.

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14: TRANSPORT INFORMATION

This product is not classified as hazardous for transportation.

15: REGULATORY INFORMATION

U.S. Regulations/Reporting: Not subject to US Reporting (Sara 302/304, 313, CERCLA)

State Right to Know Status:

| Ingredient | CAS Number | MA - RTK | NJ - RTK | PA - RTK | RI - RTK |
|------------------|------------|----------|----------|----------|----------|
| silica amorphous | 7631-86-9 | Present | Present | Present | N/L |

Canada Regulations/Reporting: This product has been classified in accordance with the hazard criteria of the *Controlled Products Regulations (CPR)* and the MSDS contains all of the information required by the *CPR*.

WHMIS Hazard Symbol: 

WHMIS Hazard Class: D2B

Ingredients required for disclosure:

| Ingredient | CAS Number | Weight % | Classification |
|------------------|------------|----------|----------------|
| silica amorphous | 7631-86-9 | > 1% | uncontrolled |

16: OTHER INFORMATION

Product intended for COMMERCIAL AND INDUSTRIAL USE.

Abbreviations Used:

N/E - Not Established

N/A - Not applicable

N/L - Not Listed

Revision History:

8/19/2011- Classification change, changes per vendor MSDS (Section 2, 5, 8, 9, 10, 15)

04/01/2011- MSDS format change to ANSI Z400.1-2004, correction to density

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This MSDS has been provided to you in accordance with the OSHA Hazard Communication Standard (29CFR1910.1200).

****IMPORTANT SAFETY INFORMATION**DO NOT DISCARD**PLEASE ROUTE TO COMPANY SAFETY OFFICER****