

POWERSTAR 1100 DENSIFYING TREATMENT

I. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product Name: PowerStar 1100 Densifying Treatment **Product Number:** 419
Product Use: Concrete Hardener

Manufacturer Address:
 Amano Pioneer Eclipse Corp.
 P.O. Box 909
 1 Eclipse Road
 Sparta, NC 28675 USA


Contact Information:
 Telephone: +1 336 372 8080
 Internet: www.pioneer-eclipse.com
 E-mail: msds@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

This preparation has been classified and labeled according to 1999/45/EC.

EU Classification: Classified as an Irritant

Hazard symbol: 

Irritant

Risk phrases: R36/37/38- Irritating to eyes, respiratory system and skin.

Safety phrases: S2- Keep out of the reach of children.
 S26- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
 S28- After contact with skin, wash immediately with plenty of water.
 S36/37/39- Wear suitable protective clothing, gloves and eye/face protection.
 S45- In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Ingredients	EC No.	Weight %	CAS No.	Symbol	R-phrases *
Silicon Dioxide	231-545-4	10 – 30	7631-86-9	Xi	R36/37/38

* Classification based on Vendor recommendation. See section 16 for the full text of relevant R-phrases

4. FIRST AID MEASURES

EFFECTS AND SYMPTOMS

Inhalation: May cause respiratory tract irritation.
Ingestion: May cause irritation to digestive tract.
Skin contact: May cause skin irritation.
Eye contact: May cause eye irritation.

FIRST AID MEASURES

Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
Ingestion: Do not induce vomiting! Immediately drink plenty of water or milk. Never give anything by mouth to an unconscious person. Seek medical attention immediately.
Skin contact: In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if irritation persists.
Eye contact: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. (If easy to do, remove contact lenses, if worn). Get medical attention if irritation persists.

5. FIRE FIGHTING MEASURES

Extinguishing media: Dry chemical, water spray, foam, carbon dioxide
Hazardous combustion products: None
Unusual fire and explosion hazards: Materials can splatter above 100°C/212°F.
Special fire fighting procedures: None

6. ACCIDENTAL RELEASE MEASURES

Put on appropriate personal protective equipment (see Section 8).

Small spills: Absorb spill on inert material (e.g. sand, earth) and dispose of as waste material in accordance with national and regional provisions.

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Large spills: Keep spectators away. Floors may be slippery; use care to avoid falling. 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 containers for disposal. Keep spills and cleaning runoff out of sewers and open bodies of water.

7. HANDLING AND STORAGE

Handling: Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Use only in well-ventilated areas. Avoid breathing vapours or spray mists. Remove and wash contaminated clothing and footwear before re-use.
Storage: Storage temperature (Max. 60°C/140°F) (Min. 1°C/34°F). Keep from freezing, product may coagulate. Keep container sealed when not in use. Keep out of reach of children.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

Exposure controls: Ensure adequate general ventilation.
Environmental exposure controls: No specific environmental exposure controls required.
PERSONAL PROTECTION
Respiratory protection: No specific personal protection is required.
Hand protection: Rubber gloves recommended
Eye protection: Safety glasses recommended
Skin protection: If major exposure is possible, wear suitable protective clothing such as rubber boots, apron, etc.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : clear colorless liquid	Odor: odorless
Odor threshold: N/E	pH: 6.5
Melting point/Freezing Point: N/E	Initial boiling point/boiling range: 100 °C
Flash point: none	Evaporation Rate: > 1.0
Upper/lower flammability/explosive limits: N/E	Vapor pressure: > 2.2 torr @20 °C
Vapor density: > 1.0	Relative density: 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 centipose @ 20 °C	Explosive Properties: N/E
Oxidizing properties: Not an oxidizer	Other information: VOC < 50 g/L

10. STABILITY AND REACTIVITY

Chemical stability: Stable under normal conditions
Hazardous Reactions: None known
Conditions to avoid: None known
Incompatible materials: None known
Hazardous decomposition products: None known

11. TOXICOLOGICAL INFORMATION

PREPARATION SUMMARY - Toxicity testing has not been completed on the mixture.

LOCAL EFFECTS

Skin contact: May cause skin irritation.
Eye Contact: May cause eye irritation.
Sensitization: None known
Chronic effects: None known

SPECIFIC EFFECTS

Carcinogenicity: None known
Reproductive effects: None known
Teratogenicity: None known
Mutagenicity: None known

COMPONENT SUMMARY *

Silicon dioxide CAS# 7631-86-9

LD₅₀: (oral, rat) >5000 mg/kg

Potential Health Effects

Eye: May cause eye irritation.
Skin: May cause skin irritation.
Ingestion: May cause irritation of the digestive tract.
Inhalation: May cause respiratory tract irritation.
Chronic: Prolonged exposure may cause delayed lung injury.
Carcinogenicity: Listed as a IARC Category 3 – Not classifiable for human.

*Component data recorded from available sources pertaining to individual component CAS number.

POWERSTAR 1100 DENSIFYING TREATMENT**12. ECOLOGICAL INFORMATION**

PREPARATION SUMMARY: Ecological testing has not been completed on the mixture.

COMPONENT SUMMARY *

Silicon dioxide CAS# 7631-86-9
LC50, 96 hr Brachydanio rerio 5000mg/L
EC50, 48 hr Ceriodaphnia dubia 7600 mg/L
Environmental Fate: No bioaccumulation expected.

*Component data recorded from available sources pertaining to individual component CAS number.

13. DISPOSAL CONSIDERATIONS

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

14. TRANSPORT INFORMATION

Not regulated for transport.

15. REGULATORY INFORMATION

EINECS Status: Ingredients are included in the EINECS/ELINCS/NLP inventories.
NATIONAL REGULATIONS: No additional national regulations are known to the supplier.

16. OTHER INFORMATION

Product intended for commercial and industrial use.

Relevant R (Risk) phrases:

R36/38- Irritating to eyes and skin.

Relevant S (Safety) phrases:

S2- Keep out of the reach of children.
S26- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S28- After contact with skin, wash immediately with plenty of water.
S36/37/39- Wear suitable protective clothing, gloves and eye/face protection.
S45- In case of accident or if you feel unwell, seek medical advice immediately (show label where possible.)

Abbreviations:

N/A = Not Applicable
N/E = Not Established
N/L = Not Listed

Issued by:

Chemical/R&D Department
Amano Pioneer Eclipse Corporation

Revision Information:

08/23/2011 – Section 2 & 16 (S-phrase), Section 9 (pH, viscosity, density), Section 16 (added usage statement).
04/01/2011 – revisions conforming to 1907/2006/EC amendment 453/2010