



## SAFETY DATA SHEET

Conforms to 1907/2006/EC - (EU) 2015/830

Issued: June 13, 2016

Supersedes: April, 21, 2016

**HARDCORE™**

### SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### 1.1 PRODUCT IDENTIFIER

Product Name: HardCore Hard Floor Densifier

Product Number: 422

#### 1.2 RELEVANT IDENTIFIED USES OF THE MIXTURE AND USES ADVISED AGAINST

Product intended for commercial and industrial use only.

Intended Use: Densifier for concrete. Ready to Use.

Uses Advised Against: Other than per labelled instructions.

#### 1.3 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

##### Manufacturer:

Amano Pioneer Eclipse Corporation

P.O. Box 909

1 Eclipse Road

Sparta, NC 28675

Telephone: 1-336-372-8080

Email: sds@pioneereclipse.com

Internet: www.pioneereclipse.com

#### 1.4 EMERGENCY TELEPHONE NUMBER

**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)

### SECTION 2: HAZARDS IDENTIFICATION

#### 2.1 CLASSIFICATION OF THE MIXTURE

This mixture has been classified according to EC 1272/2008.

Skin Irritation - Category 2

Eye Irritation - Category 2

#### 2.2 LABEL ELEMENTS

Signal Word: Warning

Hazard pictogram(s):



Hazard Statement(s):

H315

Causes skin irritation.

H319

Causes serious eye irritation.

Precautionary Statement(s):

P264

Wash thoroughly after handling.

P280

Wear protective gloves and eye protection/face protection.

P302+P352+

IF ON SKIN (or hair): Wash with plenty of water. If skin irritation occurs: Get medical advice/attention.

P332+P313

P305+P351+P338+

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

P337+P313

P362+P364

Take off contaminated clothing and wash it before reuse.

#### 2.3 OTHER HAZARDS

No other hazards are known to the supplier

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**HARDCORE™ HARD FLOOR DENSIFIER****SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS****3.1/3.2 SUBSTANCES/MIXTURES**

| Ingredient                      | EC No.    | Weight % | CAS No.    | CLP Classification                       |                      |
|---------------------------------|-----------|----------|------------|------------------------------------------|----------------------|
|                                 |           |          |            | Hazard Class                             | Hazard Statement(s)* |
| Lithium silicate                | 235-730-0 | 4 - 7    | 12627-14-4 | Skin Irrit 2<br>Eye Irrit 2<br>STOT SE 3 | H315<br>H319<br>H335 |
| Potassium methylesilanetriolate | 250-807-9 | 1 - <3   | 31795-24-1 | Skin Corr 1A                             | H314                 |

*\*See section 16 for the full text of R phrases and Hazard Statements***SECTION 4: FIRST AID MEASURES****4.1 DESCRIPTION OF FIRST AID MEASURES**

**Eye Contact:** Flush eyes with plenty of water, for at least 15 minutes. If easy to do, remove contact lenses if worn. 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 subject to fresh air. If symptoms persist, seek medical attention.

**Ingestion:** Call a physician or poison control center. Do not induce vomiting. Seek medical advice.

**4.2 MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED**

**Eye Contact:** Can be irritating to eyes.

**Skin Contact:** Can be irritating to eyes.

**Inhalation:** Spray mist may cause irritation to nose, throat and lungs.

**Ingestion:** May cause irritation to mouth, esophagus and stomach.

**4.3 INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED**

Treat symptomatically.

**SECTION 5: FIRE FIGHTING MEASURES****5.1 EXTINGUISHING MEDIA**

In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.

**5.2 SPECIAL HAZARDS ARISING FROM THE MIXTURE**Hazardous combustion products: CO, CO<sub>2</sub>

During a fire, smoke may contain the original material in addition to combustion products of varying composition which may be toxic and/or irritating. Combustion products may include but not limited to the above mentioned substances.

**5.3 ADVICE FOR FIRE FIGHTERS**

As in any fire, wear self contained breathing apparatus and suitable protective clothing including gloves and eye/face protection. Fire-fighters should wear clothing conforming to EN469 for chemical incidents. Materials can splatter above 100°C/212°F.

**SECTION 6: ACCIDENTAL RELEASE MEASURES****6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES**

Refer to Section 8 for appropriate personal protective equipment.

**6.2 ENVIRONMENTAL PRECAUTIONS**

Keep spills and cleaning runoff out of sewers and open bodies of water.

**6.3 METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP**

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

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.



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**6.4 REFERENCE TO OTHER SECTIONS:** Refer to Section 8 of the SDS.

#### SECTION 7: HANDLING AND STORAGE

##### 7.1 PRECAUTIONS FOR SAFE HANDLING

Avoid contact with eyes and skin. Wash thoroughly after handling. Use in well-ventilated areas.

##### 7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

Storage temperature (Max. 60°C/140°F) (Min. 1°C/34°F). Keep from freezing. Keep container sealed when not in use. Keep out of reach of children. Do not mix with other chemicals unless stated on the product label.

##### 7.3 SPECIFIC END USE(S): No information available

#### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

##### 8.1 CONTROL PARAMETERS

Occupational Exposure Limits: None

##### 8.2 EXPOSURE CONTROLS

**Engineering Controls:** Use only with adequate ventilation. Use local ventilation and other engineering controls to maintain airborne contaminants below established and recommended exposure limits. If this product contains ingredients with exposure limits, monitoring may be required to determine the effectiveness of ventilation and other control measures.

**Environmental exposure controls:** No specific environmental exposure controls known.

**Personal Protective Equipment (PPE)**

**Eye/Face Protection:** Safety eyewear is recommended, to avoid chemical splashes and mists. Safety glasses or goggles (EN166).

**Hand Protection:** Chemical resistant gloves are recommended. (EN374).  
Protective gloves should be selected according to the application and duration of use. Workplace selection should take into consideration handling requirements, physical requirements and exposure to other substances.

**Skin Protection:** If major exposure is possible, wear suitable protection such as rubber boots, apron, etc.

**Respiratory Protection:** Respiratory protection should be worn when there is a potential of inadequate ventilation. If exposure limits are exceeded or symptoms are experienced, use an approved respirator with multi-purpose combination filter. (E.g. - EN 14387- ABEK)

#### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

##### 9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

|                                            |                         |                                             |
|--------------------------------------------|-------------------------|---------------------------------------------|
| Appearance:                                | clear, colorless liquid |                                             |
| Odor:                                      | no added fragrance      |                                             |
| Odor Threshold:                            | no test data available  |                                             |
| pH:                                        | 11.0 (as supplied)      | [Method: ASTM E 70]                         |
| Melting Point/Freezing Point:              | no test data available  |                                             |
| Initial boiling point/boiling range:       | no test data available  |                                             |
| Flash Point:                               | > 93°C                  | [Method: Closed cup, ASTM D 56]             |
| Evaporation Rate:                          | no test data available  |                                             |
| Flammability (solid/gas):                  | liquid/not applicable   |                                             |
| Upper/lower flammability/explosive limits: | no test data available  |                                             |
| Vapor Pressure:                            | no test data available  |                                             |
| Vapor Density:                             | no test data available  |                                             |
| Relative Density:                          | 1.06 kg/L @ 20°C        | [Method: Pycnometer, ASTM D 1475]           |
| Solubility:                                | miscible in water       |                                             |
| Partition Coefficient (n-octanol/water):   | no test data available  |                                             |
| Auto Ignition temperature:                 | no test data available  |                                             |
| Decomposition Temperature:                 | no test data available  |                                             |
| Viscosity:                                 | < 10 centipoise @ 20°C  | [Method: Rotational viscometer, Brookfield] |
| Explosive Properties:                      | none                    |                                             |



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Oxidizing Properties: none

#### 9.2 OTHER INFORMATION

VOC: < 50 g/L

### SECTION 10: STABILITY AND REACTIVITY

- 10.1 REACTIVITY:** None known
- 10.2 CHEMICAL STABILITY:** Stable under normal conditions.
- 10.3 POSSIBILITY OF HAZARDOUS REACTIONS:** None expected
- 10.4 CONDITIONS TO AVOID:** None known
- 10.5 INCOMPATIBLE MATERIALS:** Do not mix with other chemicals unless stated on the product label.
- 10.6 HAZARDOUS DECOMPOSITION PRODUCTS:** None known

### SECTION 11: TOXICOLOGICAL INFORMATION

#### 11.1 INFORMATION ON TOXICOLOGICAL EFFECTS

**ACUTE TOXICITY:** Toxicity testing has not been completed on the mixture.  
Based on available data, the classification criteria are not met.

ATE<sub>mix</sub> (oral): > 2000 mg/kg

ATE<sub>mix</sub> (dermal): > 2000 mg/kg

ATE<sub>mix</sub> (inhalation): > 20 mg/l (4 hr/vapour)

| Component                       | CAS #      | LD50 Oral - Rat (mg/kg) | LD50 Dermal - Rabbit (mg/kg) | LC <sub>50</sub> Inhalation - Rat (mg/l) |
|---------------------------------|------------|-------------------------|------------------------------|------------------------------------------|
| Lithium silicate                | 12627-14-4 | 2,500                   | data not available           | data not available                       |
| Potassium methylesilanetriolate | 31795-24-1 | 2,000                   | data not available           | data not available                       |

**SKIN CORROSION/IRRITATION:** Causes skin irritation.  
Classified as Skin Irritant - Category 2.

**SERIOUS EYE DAMAGE/IRRITATION:** Causes serious eye irritation.  
Classified as Eye Irritant - Category 2.

**RESPIRATORY OR SKIN SENSITIZATION:** Based on available data, the classification criteria are not met.

**GERM CELL MUTAGENICITY:** Based on available data, the classification criteria are not met.

**CARCINOGENICITY:** Based on available data, the classification criteria are not met.

**REPRODUCTIVE TOXICITY:** Based on available data, the classification criteria are not met.

**STOT-SINGLE EXPOSURE:** Based on available data, the classification criteria are not met.

**STOT-REPEATED EXPSURE:** Based on available data, the classification criteria are not met.

**ASPIRATION HAZARD:** Based on available data, the classification criteria are not met.

#### 11.2 POTENTIAL ADVERSE HEALTH EFFECTS

Effects and symptoms related to this mixture, if any, are listed in Section 4.2.

### SECTION 12: ECOLOGICAL INFORMATION

#### 12.1 TOXICITY: Ecological testing has not been completed on the mixture.

| Component                       | CAS #      | LC50 - vertebrate        | EC50 - invertebrate    | LC50 - algae           |
|---------------------------------|------------|--------------------------|------------------------|------------------------|
| Lithium silicate                | 12627-14-4 | (4 days) 260 - 1108 mg/L | (48 hr) 220 - 800 mg/L | (72 hr) 207 - 345 mg/L |
| Potassium methylesilanetriolate | 31795-24-1 | (4 days) 500 mg/L        | (4 hr) 500 mg/L        | (72 hr) 3.6 - 120 mg/L |

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**HARDCORE™ HARD FLOOR DENSIFIER****12.2 PERSISTENCE AND DEGRADABILITY:** Testing has not been completed on the mixture.

| Component                       | CAS #      | Biodegradation     |
|---------------------------------|------------|--------------------|
| Lithium silicate                | 12627-14-4 | Inorganic          |
| Potassium methylesilanetriolate | 31795-24-1 | data not available |

**12.3 BIOACCUMULATIVE POTENTIAL:** Testing has not been completed on the mixture.

| Component                       | CAS #      | Partition coefficient n-octanol/water (Log Kow) | Bioconcentration factor (BCF) |
|---------------------------------|------------|-------------------------------------------------|-------------------------------|
| Lithium silicate                | 12627-14-4 | data not available                              | data not available            |
| Potassium methylesilanetriolate | 31795-24-1 | -2.36                                           | data not available            |

**12.4 MOBILITY IN SOIL:** Testing has not been completed on the mixture.

| Component                       | CAS #      | Soil Organic Carbon-Water Partitioning Coefficient (Koc) |
|---------------------------------|------------|----------------------------------------------------------|
| Lithium silicate                | 12627-14-4 | data not available                                       |
| Potassium methylesilanetriolate | 31795-24-1 | data not available                                       |

**12.5 RESULTS OF PBT AND vPvB ASSESSMENT:** Not applicable.**12.6 OTHER ADVERSE EFFECTS:** No data available.**12.7 ADDITIONAL INFORMATION:** Mixture is not classified with Aquatic hazards.**SECTION 13: DISPOSAL CONSIDERATIONS****13.1 WASTE TREATMENT METHODS**

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

EU Waste Catalogue: 16 03 05\*

**SECTION 14: TRANSPORT INFORMATION**

Product is not classified as hazardous for transport regulations.

**14.1 UN NUMBER:** None**14.2 UN PROPER SHIPPING NAME:** None**14.3 TRANSPORT HAZARD CLASSES:** None**14.4 PACKING GROUP:** None**14.5 ENVIRONMENTAL HAZARDS:** None**14.6 SPECIAL PRECAUTIONS:** None**14.7 TRANSPORT IN BULK ACCORDING TO ANNEX II OF MAPROL73/78 AND THE IBC CODE:** N/A**SECTION 15: REGULATORY INFORMATION****15.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE MIXTURE**

EINECS STATUS: Ingredients are included in the EINECS/ELINCS/NLP inventories.

NATIONAL REGULATIONS: No additional national regulations are known to the supplier.

**15.2 CHEMICAL SAFETY ASSESSMENT:** No information available.**SECTION 16: OTHER INFORMATION****REVISION INFORMATION:**

June 13, 2016 - Minor edits Section 10, 11, 16



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#### ABBREVIATIONS:

N/A - Not applicable  
N/E - Not Established  
N/L - Not Listed

#### FULL TEXT OF HAZARD STATEMENTS:

H314 Causes severe skin burns and eye damage.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H335 May cause respiratory irritation.

#### FULL TEXT OF PRECAUTIONARY STATEMENTS:

P321 Specific treatment (see ... on this label).

#### ISSUED BY:

Chemical/R&D Department  
Amano Pioneer Eclipse Corporation