

CLS DENSIFIER - 1100 DENSIFYING TREATMENT**1. IDENTIFICATION OF THE MIXTURE (PREPARATION) AND OF THE COMPANY/UNDERTAKING****1.1 PRODUCT IDENTIFIER**

Product Name: CLS Densifier - 1100 Densifying Treatment Product Number: 419

1.2 RELEVANT IDENTIFIED USES OF THE MIXTURE AND USES ADVISED AGAINST

Product intended for commercial and industrial use only.

Intended Use: Concrete hardener

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: msds@pioneer-eclipse.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)

2. HAZARDS IDENTIFICATION**2.1 CLASSIFICATION OF THE MIXTURE (PREPARATION)****2.1.1** This mixture has been classified according to EC 1272/2008.CLP Classification: Skin Irritation - Category 2, Eye Irritation - Category 2
Specific Target Organ Toxicity (Single Exposure) - Category 3 (Inhalation)**2.1.2** This preparation has been classified according to 1999/45/EC.

DPD Classification: Irritant

2.2 LABEL ELEMENTS

Signal Word: Warning

Hazard pictogram(s):



Hazard Statement(s):

H315 Causes skin irritation.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation

Precautionary Statement(s):

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P264 Wash thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves and eye protection/face protection.
P301+330+331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P303+361+353+332+313 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation occurs: Get medical advice/attention.
P304+340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+351+338+337+313 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.
P312 Call a POISON CENTER/doctor if you feel unwell.

CLS DENSIFIER - 1100 DENSIFYING TREATMENT
2.3 OTHER HAZARDS

No other hazards are known to the supplier

3. COMPOSITION/INFORMATION ON INGREDIENTS
3.1/3.2 SUBSTANCES/MIXTURES

Ingredient	EC No.	Weight %	CAS No.	DSD Classification		CLP Classification	
				Symbol	Risk Phrase(s)*	Hazard Class	Hazard Statement(s)*
silicon dioxide	231-545-4	10 - 30	7631-86-9	Xi (irritant)	R36/37/38	Eye Irrit 2 Skin Irrit 2 STOT SE 3	H319 H315 H335

*See section 16 for the full text of R phrases and Hazard Statements

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.

5. FIRE FIGHTING MEASURES
5.1 EXTINGUISHING MEDIA

Dry chemical, water spray, foam, carbon dioxide

5.2 SPECIAL HAZARDS ARISING FROM THE MIXTURE

Hazardous combustion products: None known

5.3 ADVICE FOR FIRE FIGHTERS

Unusual fire and explosion hazards: Materials can splatter above 100°C/212°F.

Special firefighting procedures: None known

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. Neutralize spill area. 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.

CLS DENSIFIER - 1100 DENSIFYING TREATMENT

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

7. HANDLING AND STORAGE**7.1 PRECAUTIONS FOR SAFE HANDLING**

Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Use in well-ventilated areas. Avoid breathing vapours or spray mists.

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.

7.3 SPECIFIC END USE(S): No information available**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.

Hand Protection: Chemical resistant gloves are recommended.

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.

9. PHYSICAL AND CHEMICAL PROPERTIES**9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES**

Appearance: clear, colorless liquid
Odor: odorless
Odor Threshold: N/E
pH: 6.5
Freezing Point: N/E
Initial boiling point/boiling range: N/E
Flash Point: > 93°C
Evaporation Rate: N/E
Upper/lower flammability/explosive limits: N/E
Vapor Pressure: N/E
Vapor Density: N/E
Relative Density: 1.03 kg/L @ 20°C
Solubility: miscible in water
Partition Coefficient (n-octanol/water): N/E
Auto Ignition temperature: N/E
Decomposition Temperature: N/E
Viscosity: < 10 centipoise @ 20°C
Explosive Properties: N/A
Oxidizing properties: N/E

9.2 OTHER INFORMATION

VOC: < 50 g/L

CLS DENSIFIER - 1100 DENSIFYING TREATMENT
10. STABILITY AND REACTIVITY

- 10.1 **REACTIVITY:** None known
- 10.2 **CHEMICAL STABILITY:** Stable under normal conditions.
- 10.3 **POSSIBILITY OF HAZARDOUS REACTIONS:** None known
- 10.4 **CONDITIONS TO AVOID:** None known
- 10.5 **INCOMPATIBLE MATERIALS:** Strong acids, bases and oxidizing agents.
- 10.6 **HAZARDOUS DECOMPOSITION PRODUCTS:** None known

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.

Component	CAS #	LD50 Oral- Rat (mg/kg)	LD50 Dermal - Rabbit (mg/kg)	LC50 Inhalation- Rat (mg/l)
silicon dioxide	7631-86-9	>5000 mg/kg	> 2000 mg/kg	> 0.139 mg/L

SKIN CORROSION/IRRITATION: Classified as Skin Irritant - Category 2.

SERIOUS EYE DAMAGE/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: Classified as Specific Target Organ Toxicity (Single Exposure) - Category 3 (Inhalation)

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.

12. ECOLOGICAL INFORMATION

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

Component	CAS #	LC50 - 96 hr	EC50 - 48 hr	LC50
silicon dioxide	7631-86-9	Brachydanio rerio - 5000mg/L	Ceriodaphnia dubia 7600 mg/L	not available

12.2 **PERSISTANCE AND DEGRADABILITY:** No data available.

Component	CAS #	Biodegradation
silicon dioxide	7631-86-9	Inorganic

12.3 **BIOACCUMULATIVE POTENTIAL:** No data available.

Component	CAS #	Partition coefficient n- octanol/water (Log Kow)	Bioconcentration factor (BCF)
silicon dioxide	7631-86-9	not available	3.162

12.4 **MOBILITY IN SOIL:** No data available.

Component	CAS #	Soil Organic Carbon- Water Partitioning Coefficient (Koc)
silicon dioxide	7631-86-9	not available

CLS DENSIFIER - 1100 DENSIFYING TREATMENT

12.5 RESULTS OF PBT AND vPvB ASSESSMENT: No data available.

12.6 OTHER ADVERSE EFFECTS: No data available.

12.7 ADDITIONAL INFORMATION: No data available.

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*

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

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.

16. OTHER INFORMATION**REVISION INFORMATION:**

May 13, 2015- Revisions required per EC 1272/2008

ABBREVIATIONS:

N/A - Not applicable

N/E - Not Established

N/L - Not Listed

FULL TEXT OF HAZARD STATEMENTS:

No additional hazard statements

FULL TEXT OF PRECAUTIONARY STATEMENTS:

P362 + P364 Take off contaminated clothing and wash it before reuse.

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulation.

FULL TEXT OF RISK PHRASES:

R36/37/38 Irritating to eyes, respiratory system and skin.

ISSUED BY:

Chemical/R&D Department

Amano Pioneer Eclipse Corporation