



SAFETY DATA SHEET

422: READY TO USE

Conforms to 1910.1200
Issued: Sept. 29, 2022
Supersedes: May 25, 2016

HARDCORE™ DENSIFYING TREATMENT

1: PRODUCT AND COMPANY IDENTIFICATION

Product Name: HardCore Densifying Treatment **Product Number:** 422
Recommended Use: Densifier for concrete
Ready to Use
Product intended for commercial and industrial use only.
Uses Advised Against: Other than per labelled instructions

Manufacturer Address:

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

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

Classification: Skin Irritation - Category 2
Eye Irritation - Category 2

Signal Word: WARNING

Pictogram:



Hazard Statements:

Causes skin irritation.
Causes serious eye irritation.

Precautionary Statements:

Wash thoroughly after handling.
Wear protective gloves and eye protection.
IF ON SKIN (or hair): Wash with plenty of water.
If skin irritation occurs: Get medical advice/attention.
Take off contaminated clothing and wash it before use.
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.

Other Hazards: None known

Supplemental Information: None

3: COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Ingredients	CAS Number	Weight % *
Lithium silicate	12627-14-4	4 - 7
Potassium methylsilanetriolate	31795-24-1	1 - 4

* Exact concentration of the ingredients has been withheld as a trade secret.

4: FIRST AID MEASURES

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.



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Inhalation: If breathing is difficult, remove subject to fresh air. If symptoms persist, seek medical attention.
Ingestion: Do not induce vomiting. Rinse mouth out with water. Seek medical advice.

MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

Eye Contact: Causes eye irritation.
Skin Contact: Causes skin irritation.
Inhalation: Spray mist may cause irritation to nose, throat and lungs.
Ingestion: May cause irritation to digestive tract.

INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

Treat symptomatically.

5: FIRE-FIGHTING MEASURES

Suitable Extinguishing media: Water spray, CO₂ dry chemical, alcohol-type or universal type foams
Specific Hazards: Alkaline liquid. Do not spray a solid stream of water or foam directly in hot liquid.
Protective Equipment and Precautions: Fire fighters should wear appropriate protective equipment and NIOSH approved breathing apparatus.

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.
Environment 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 containers 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.

7: HANDLING AND STORAGE

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

8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits: No occupational exposure limits assigned.
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.
Personal Protective Equipment (PPE)
Eye/Face Protection: Safety eyewear is recommended, to avoid chemical splashes and mists.
Skin Protection: Chemical resistant gloves are recommended.
Respiratory Protection: No personal protective equipment required with normal use. General room ventilation should be adequate.
Hygiene Measures: Handle in accordance with good industrial hygiene and safety practice.



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9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance: clear, colorless liquid
Odor: no added fragrance
Odor Threshold: no data available
pH: 11.0
Freezing Point: no data available
Boiling Point: no data available
Flash Point: >200°F / >93°C
Evaporation Rate: less than water
Flammability (solid/gas): not applicable to liquids
Flammability limits: no data available
Vapor Pressure: no data available
Vapor Density: no data available
Relative Density: 8.86 lb/gal @ 68°F / 1.06 kg/l @ 20°C
Solubility: miscible in water
Partition Coefficient: no data available
Auto Ignition temperature: no data available
Decomposition Temperature: no data available
Viscosity: < 10 centipoise @ 68°F (20°C)
VOC: < 50 g/L

10: STABILITY AND REACTIVITY

Reactivity: Not reactive under normal conditions.
Stability: Stable under normal conditions.
Hazardous reactions: None expected.
Conditions to avoid: None known.
Incompatible materials: Do not mix with other chemicals unless stated on the product label.
Hazardous decomposition products: None known.

11: TOXICOLOGICAL INFORMATION

Acute Toxicity: Not determined on product.

LOCAL EFFECTS

Skin contact: Can cause skin irritation.
Eye contact: Can cause eye irritation.
Sensitization: None expected
Chronic effects: None expected

SPECIFIC EFFECTS

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

COMPONENT INFORMATION

Component	LD50 Oral-Rat (mg/kg)	LD50 Dermal - Rabbit (mg/kg)	LC50 Inhalation-Rat (mg/l)
Lithium silicate	no data available	no data available	no data available
Potassium methylsilanetriolate	> 2000	no data available	no data available

Carcinogenicity: Components are not known to be classified as carcinogens. (IARC, NTP, OSHA).

12: ECOLOGICAL INFORMATION

Ecotoxicity: Ecological testing has not been completed on the mixture.
Persistence and Degradability: Data not available.
Bioaccumulative Potential: Data not available.
Mobility in Soil: Data not available.
Other Adverse Effects: Data not available.



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13: DISPOSAL CONSIDERATIONS

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

14: TRANSPORT INFORMATION

This product is not classified as hazardous for transportation.

15: REGULATORY INFORMATION

U.S. REGULATIONS/REPORTING: Components not subject to reporting (SARA 302/304, 313, CERCLA)
STATE RIGHT-TO-KNOW (RTK): Components are not subject to State RTK listing (MA, NJ, PA, RI)
CALIFORNIA PROPOSITION 65: Components are not present on CA Prop 65 listing.
CANADA REGULATIONS/REPORTING: This product has been classified in accordance with the hazard criteria of the Hazardous Product Regulation (*HPR*) and the SDS contains the information required by the *HPR*.

16: OTHER INFORMATION

Abbreviations Used:

CAS	Chemical Abstract Service
IARC	International Agency for Research on Cancer
LC50	Lethal Concentration to 50% of a test population
LD50	Lethal Dose to 50% of a test population
NTP	National Toxicology Program
OSHA	Occupational Safety and Health Administration

Revision Information:

Sept. 29, 2022 - Revisions § 1, 5, 14 & 16

National Fire Protection Association (NFPA) Rating:

	
Health:	2
Flammability:	0
Reactivity:	0

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This SDS 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****