1. IDENTIFICATION

Product Name:	Hardtflo SF-6
Synonyms:	Polycarboxylate powder
Product Use:	Concrete admixture
Manufacturer/ Supplier:	Hardt Chemical Inc. P. O. Box 311 Springhouse, PA 19477
Emergency phone:	For Chemical Emergency call (215) 283-4655.

2. HAZARD IDENTIFICATION

GHS Classification:

Health	Environmental	Physical
Not classified	Not classified	Not classified

GHS Label:

Symbols: none required

Hazard Statements	***Precautionary Statements***
None required	Do not breathe dust. Do not get in eyes, on skin, or on clothing. Do not eat, drink or use tobacco when using this product. Wash thoroughly after handling.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Substance	CAS #	EINECS #	Wt.%
Water	7732-18-5	231-791-2	25-45
Polycarboxylate polymer	Trade secret	NA (polymer)	20-30
Silica, amorphous	112945-52-5	231-545-4	35-45

See Section 8 for exposure limits

4. FIRST - AID MEASURES

Inhalation: If inhaled, move to fresh air, aid breathing if necessary. Get medical attention.
Skin Contact: Wash with soap and water. Get medical attention if irritation develops.
Eye Contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation occurs.
Ingestion: Do not induce vomiting. Consult Poison Control Center, 1-800-256-9822.
Note to physician: Treat symptomatically.

5. FIRE - FIGHTING MEASURES

Suitable Extinguishing media: Not flammable
Unsuitable Extinguishing media: Not applicable.
Special exposure hazards: Dust exposure above limits (Section 8) may lead to pulmonary edema.
Combustion products: Not applicable.
Protection of firefighters: Not flammable.
NFPA Hazard Classification: Health: 1 Flammability: 0 Reactivity: 0 Special: --

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Use suitable protective equipment (see section 8) to prevent contamination of skin, eyes and personal clothing.
Methods for cleanup: Collect spilled material and reuse if possible. Wash up with water. In case of small spills: collect spilled material in containers and dispose at an appropriate waste disposal facility in accordance with applicable regulations and product characteristics at time of disposal (see also Section 13). Prevent spills from entering storm sewers or drains and contact with soil. Use vacuum or wet method to avoid dust during cleanup.

7. HANDLING AND STORAGE

Handling: When using do not eat, drink or smoke. Avoid repeated or prolonged contact with skin. Wash hands after handling. Remove contaminated clothing and protective equipment before entering eating areas.
Storage: Store only in the original container.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits: OSHA PEL: 20 mppcf or 80 mg/m^3/(%SiO2) (amorphous silica)
ACGIH: 3 mg/m^3 respirable, 10 mg/m3 inhalable (PNOS)
Engineering controls: Local exhaust ventilation is recommended.
Personal protection: General: General hygiene considerations are appropriate when used as recommended. The following precautions are recognized as common good industrial hygiene practice. Emergency conditions may require additional precautions. Follow precautions listed and recommendations for personal protective equipment.
Eye: Wear chemical safety goggles and face shield. Have eye-wash stations available where eye contact can occur.
Skin: Wear gloves impervious to conditions of use. Additional protection may be necessary to prevent skin contact. A safety shower should be located in the work area.
Respiratory: NIOSH approved respiratory protection should be worn if exposure limits are exceeded. Respiratory protection may be needed for non-routine or emergency situations. A NIOSH approved respirator is generally acceptable for concentrations up to 10 times the PEL. Use a NIOSH approved air-supplied respirator for higher concentrations, unknown concentrations and for oxygen deficient atmospheres. Engineering controls are the preferred means for controlling chemical exposures. Respiratory protection must be provided in accordance with 29 CFR 1910.134.
Thermal: Not normally required.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance**:**	White powder
Odor:	None
Odor threshold:	Not available
pH:	4.0 – 7.0
Melting/ Freezing point/ range:	Not available
Initial Boiling point/ range:	Not available
Flash Point:	Not flammable
Evaporation rate:	Not available
Flammability (solid, gas):	Not flammable
Upper/ lower flammability or explosive limits:	Not flammable
Vapor pressure:	Similar to water
Vapor density:	Not available
Relative density:	1.54, bulk density= 0.4
Solubility in water:	Not available

Solubility in fats/ oils:	Insoluble
Partition Coefficient (n-octanol-water):	Not available
Autoignition temperature:	Not flammable
Decomposition temperature:	Not available
Viscosity:	Not available

10. STABILITY AND REACTIVITY

Reactivity:
Chemical Stability: Product is stable at ambient temperature and pressure.
Hazardous Reactions: Will not occur
Conditions to Avoid: Oxidizers
Incompatible Materials: Fluorine, oxygen difluoride, chlorine trifluoride
Hazardous Decomposition Products: None known.

11. TOXICOLOGICAL INFORMATION

Acute toxicity:	Amorphous silica: LD50 (oral, rat) = 3160 mg/kg
Skin corrosion / irritation:	Rabbit: not irritating (silica)
Respiratory or skin sensitization:	Not a sensitizer
Germ cell mutagenicity:	Not indicated
Carcinogenicity:	Silica, amorphous: IARC Group 3: Human inadequate evidence.
Reproductive toxicity:	Not indicated
STOT-single exposure:	Lung, thorax, respiratory system
STOT-repeated exposure:	Not anticipated.
Aspiration hazard:	Possible acute pulmonary edema.
Other Information:	

12. ECOLOGICAL INFORMATION

Toxicity:	Brachydanio rerio 96h EC0 = 10,000 mg/L (Silica) Daphnia magna 24h EC0 =10,000 mg/L (Silica)
Persistence and degradability:	Silica is a stable material; polymer degradation unknown.
Bioaccumulative potential:	Unlikely
Mobility in soil:	Stable in soil.
Other adverse effects:	Silica in its various forms is among the most abundant materials on the earth's surface.

13. DISPOSAL CONSIDERATIONS

Disposal methods: Reuse if possible. Material as supplied is not characterized as hazardous under RCRA. Incinerate or dispose as indicated by local, state and federal regulations.

14. TRANSPORT INFORMATION

Environmental Hazards: not a marine pollutant
USA Not regulated as hazardous by DOT regulations.
Canada Not regulated as hazardous by Canadian Transportation of Dangerous Goods Regulations
Europe Not regulated as hazardous by European Transportation of Dangerous Goods Regulations
IATA: Not regulated.

15. REGULATORY INFORMATION

Not subject to Montreal Protocol, Stockholm Convention, Rotterdam Convention
Region specific regulations
SARA Title III:
Section 302/304. Extremely Hazardous Substances - None.
Section 311/312. (40CFR370) Hazardous Categories: none
Section 313: contains the following SARA 313 Toxic Release Chemicals. None.
EINECS, TSCA, DSL: Components are listed.
CA65: Not Listed
EU Classification: Not Classified

16. OTHER INFORMATION

Disclaimer: The information contained herein is accurate to the best of our knowledge. Hardt Chemicals Inc. makes no warranty of any kind, express or implied, concerning the safe use of this material in your process or in combination with other substances.

Revision History:
Date Prepared: 27 April 09, by Aslan Group, LLC (www.aslanllc.net)
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