



Safety Data Sheet

Date Revised: 09/08/2017

Supersedes: N/A

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name(s): Five Star Summerset®

Synonyms: Not available

Product Use: Extends the working time and retards the set of hydraulic cement products.

Restrictions on Use: To be used with specific Five Star® rapid setting products.

Manufacturer/Supplier: Five Star Products, Inc.
60 Parrott Drive
Shelton, CT 06484 USA

Phone #: 203-336-7900

Emergency Phone #: **CHEM-TEL 1-800-255-3924**
(Outside the U.S. 1-813-248-0585)

SECTION 2: HAZARD(S) IDENTIFICATION-GHS INFORMATION

Classification: Acute Toxicity – Dermal Category 5
Skin Corrosion - Category 2
Eye Damage/Eye Irritation - Category 2B

Label Elements/Hazard Pictograms:



Signal Word: Warning

Hazard Statements: H313 May be harmful in contact with skin
H315 Causes skin irritation
H320 Causes eye irritation

Precautionary Statements/Prevention: P260 Do not breathe dust, fume, gas, mist, vapors, or spray
P262 Do not get in eyes, on skin, or on clothing
P280 Wear protective gloves, protective clothing, eye protection and face protection

Response: P302, P352 If on skin (or hair): Wash with plenty of soap and water.
P305, P338 Remove contact lenses, if present and easy to do. Continue rinsing.
P314 Get medical advice/attention if you feel unwell.
P330, P331 If swallowed: Rinse mouth. Do NOT induce vomiting.
P332, P313 If skin irritation or rash occurs, P332: Get medical advice/attention, P313.
P351 If in eyes: Rinse cautiously with water for several minutes.



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Storage: Keep container tightly closed and upright when not in use to prevent leaking.

Disposal: Dispose of contents/container in accordance with applicable regional, national, and local laws and regulations.

Hazards Not Otherwise Classified: Not Applicable

Ingredients with Unknown Toxicity: Not Applicable

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS			
Hazardous Ingredient(s)	Common Name/Synonyms	CAS No.	% wt/wt
Carboxylic acid	n/a	TS	45-55
Water	n/a	7732-18-5	45-55

SECTION 4: FIRST AID MEASURES

Inhalation: If inhaled: Remove person to fresh air and keep comfortable for breathing.
If experiencing respiratory symptoms call Poison Center or doctor.

Eye Contact: If in eyes: Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a Poison Center or doctor.

Skin Contact: If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower for at least 15 minutes. Immediately call a Poison Center or doctor if irritation develops. Wash contaminated clothing before reuse.

Ingestion: If swallowed: Rinse mouth. Call POISON CENTER for most current information. If professional medical advice is unavailable, give two glasses of water to drink. Do NOT induce vomiting. Immediately call a Poison Center or doctor. If vomiting occurs naturally, have victim lean forward to reduce the risk of aspiration. Never give anything by mouth to an unconscious person.

General Advice: In case of accident or if you feel unwell, seek medical advice immediately (show the label or SDS where possible). First Aid responders should pay attention to self-protection and use recommended protective clothing (chemical resistant gloves, splash protection).

Note to Physicians: Symptoms may not appear immediately. Treat symptomatically.



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SECTION 5: FIRE-FIGHTING MEASURES

Flammability and Explosion Information:

Isolate from oxidizers, extreme heat and open flame.

Sensitivity to Mechanical Impact:

This material is not sensitive to mechanical impact.

MEANS OF EXTINCTION

Suitable Extinguishing Media:

Small Fire: Dry chemical, CO₂, or water spray.

Large Fire: Dry chemical, CO₂, alcohol-resistant foam or water spray. Move containers from fire area if you can do it without risk. Dike fire-control water for later disposal; do not scatter the material.

Unsuitable Extinguishing Media:

Not Available

Protection of Firefighters:

Closed containers may explode if exposed to extreme heat. Applying to hot surfaces requires special precautions. Water spray may be ineffective on fire but can protect fire-fighters. Use fog nozzles if water is used. Do not enter confined fire-space without full bunker gear (helmet with face shield, bunker coats, gloves and rubber boots).

SECTION 6: ACCIDENTAL RELEASE MEASURES

Emergency Procedures:

Uncontrolled releases should be responded to by trained personnel using pre-planned procedures. Proper protective equipment should be used. In case of a spill, clear the affected area, protect people, and respond with trained personnel. Eliminate all ignition sources.

Personal Precautions:

The proper personal protective equipment for incidental releases (such as: 1 Liter of the product released in a well-ventilated area), use impermeable gloves, they should be Level B: triple-gloves (rubber gloves and nitrile gloves over latex gloves), chemical resistant suit and boots, hard-hat, and Self-Contained Breathing Apparatus specific for the material handled, goggles, face shield, and appropriate body protection. In the event of a large release, use impermeable gloves, specific for the material handled, chemically resistant suit and boots, and hard hat. Self-Contained Breathing Apparatus or respirator may be required where-engineering controls are not adequate or conditions for potential exposure exist. When respirators are required, select NIOSH/MSHA approved based on actual or potential airborne concentrations in accordance with latest OSHA and/or ANSI recommendations.

Environmental Precautions:

Stop spill at source. Prevent entry into waterway, sewers, basements, or confined areas.

Methods for Containment:

Stop leak if you can do it without risk. Absorb spilled liquid with polypads or other suitable absorbent material. If necessary, neutralize with suitable buffering material. Clean up with non-combustible absorbent. Shovel up and place all spill residue in suitable containers.

Methods for Cleanup:

Absorb or cover with dry earth, sand, or other non-combustible material and transfer to containers.



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Other Information: See Section 13 for disposal considerations.

SECTION 7: HANDLING AND STORAGE

Handling: Use only with adequate ventilation. Wear OSHA standard goggles or face shield. Consult safety equipment supplier. Wear goggles, gloves, face shield, apron and footwear impervious to material. Wash clothes prior to reuse.

Storage: Store locked up. Store away from incompatible materials. Isolate from strong oxidants. Do not store above 49°C/120°F. See Section 10 for information on incompatible materials. Keep out of reach of children.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Component	CAS No.	ACGIH	OSHA
Carboxylic acid	TS	No TLV established	No PEL established
Water	7732-18-5	No TLV established	No PEL established

PEL: Permissible Exposure Limit TLV: Threshold Limit Value

Engineering Controls: Not normally required.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Eye/Face Protection: Wear chemical safety goggles and full face shield. Ensure that eyewash stations and safety showers are close to the workstation location. Use equipment for eye protection that meets the standards referenced for OSHA regulations in 29 CFR 1910.133 for Personal Protective Equipment.

Hand Protection: Wear protective gloves. Rubber or polyethylene material is recommended. Consult manufacturer specifications for further information.

Skin and Body Protection: Wear protective clothing. Clothing with full length sleeves and pants should be worn.

General Hygiene Considerations: Handle according to established industrial hygiene and safety practices. Provide readily accessible eye wash stations and safety showers. Wash at end of shift and before eating, smoking, or using the toilet. Remove contaminated clothing and launder or discard.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Liquid, blue
Color:	Blue
Odor:	None



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Odor Threshold:	Not Available
Physical State:	Liquid
pH:	2.0
Melting Point / Freezing Point:	Not Available
Initial Boiling Point:	Not Available
Boiling Point:	Not Available
Flash Point:	Not Available
Evaporation Rate:	Not Applicable
Flammability (solid, gas):	Not Applicable
Lower Flammability Limit:	Not Applicable
Upper Flammability Limit:	Not Applicable
Vapor Pressure:	17.5 mm Hg @ 20°C (68°F)
Vapor Density:	0.670
Relative Density:	1.27
Solubility:	Complete
Partition Coefficient: n-Octanol/Water:	Not Available
Auto-ignition Temperature:	Not Available
Decomposition Temperature:	Not Available
Viscosity:	Not Available
Percent Volatile, wt. %:	0%
VOC Content, wt. %:	0%
Density:	1.27 g/cc
Coefficient of Water/Oil Distribution:	Not Available

SECTION 10: STABILITY AND REACTIVITY

Chemical Stability:	Stable under normal conditions.
Possibility of Hazardous Reactions:	CO ₂ from heating.
Conditions to Avoid:	Isolate from extreme heat or open flame.
Incompatible Materials:	Isolate from oxidizers.



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SECTION 11: TOXICOLOGICAL INFORMATION

Acute Toxicity:

Ingredient Name	Result	Species	Dose	Exposure
Citric Acid	LD50 Oral	Rat	3 g/kg	-

Primary Irritant Effect

On the Skin:

Defatting, dermatitis

Primary Irritant Effect

On the Eye:

Redness, tearing, blurred vision. Liquid can cause eye irritation.

Swallowing:

Can cause abdominal irritation, nausea, vomiting, and diarrhea.

Additional Toxicological Information:

This product has no carcinogens listed by IARC, NTP, NIOSH, OSHA, or ACGIH as of this date, greater or equal to 0.1%

SECTION 12: ECOLOGICAL INFORMATION

Toxicity:

All work practices must be aimed at eliminating environmental contamination.

Aquatic Toxicity:

Toxicity to daphnia and other aquatic invertebrates static test: Daphnia magna (Water flea) – 1,535 mg/l – 24 h.

Fish Specified Substance: Citric Acid: LC 50 Carp (*Leuciscus idus melanotus*), 48 h: 440 mg/l Mortality.

Aquatic Invertebrates Specified Substance: Citric Acid: LC 50 (Green or European shore crab (*Carcinus maenas*), 48 h: 160 mg/l Mortality.

Persistence and Degradability:

The product is completely biodegradable.

Bio-accumulative Potential:

Has not been determined

Mobility in Soil:

No further relevant information available

Ecotoxicological Effects

Remark:

Has not been determined.

Additional Ecological Information:

No further relevant information available

General Notes:

No further relevant information available

PBT Assessment:

Not Available

vPvB Assessment:

Not Available

Other Adverse Effects:

No further relevant information available



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SECTION 13: DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Recommendation:

The generation of waste should be avoided or minimized wherever possible. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers and liners may retain some product residues. Vapor from some product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Processing, use or contamination may change the waste disposal requirements. Do not dispose of on land, in surface waters, or in storm drains. Waste should be recycled or disposed of in accordance with regulations. Large amounts should be collected for reuse or consigned to licensed hazardous waste haulers for disposal.

ALL DISPOSAL MUST BE IN ACCORDANCE WITH ALL FEDERAL, STATE, PROVINCIAL, AND LOCAL

REGULATIONS. IF IN DOUBT, CONTACT PROPER AGENCIES.

Uncleaned Packaging

Empty containers may contain residue and may be dangerous. Do not attempt to refill or clean without proper instructions. Empty drums should be drained and stored safely for reconditioning or recycling.

Recommendation:

Disposal must be made according to official regulations.

SECTION 14: TRANSPORT INFORMATION

US DEPARTMENT of TRANSPORTION (DOT) Proper

Shipping Name: Not Regulated

Class: Not Applicable

UN #: Not Applicable

Packing Group: Not Applicable

CANADA Transportation of Dangerous Goods (TDG) Proper

Shipping Name: Not Regulated

Class: Not Applicable

UN #: Not Applicable

Packing Group: Not Applicable



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Air Transport (ICAO-IATA/DGR)

Proper Shipping Name: Not Regulated

Class: Not Applicable

UN #: Not Applicable

Packing Group: Not Applicable

Sea Transport (IMDG-Code/GGVSee):

UN #: Not Applicable

Proper Shipping Name: Not Applicable

Class: Not Applicable

Packing Group: Not Applicable

Marine Pollutant: Not Applicable

Special Provision(s): Not Applicable

SECTION 15: REGULATORY INFORMATION

CHEMICAL INVENTORIES

US (TSCA): The components of this product are in compliance with the chemical notification requirements of TSCA.

CANADA (DSL): The components of this product are in compliance with the chemical notification requirements of NSN Regulations under CEPA, 1999. All substances contained in this product are listed on the Canadian Domestic Substances List (DSL) or are not required to be listed.

FEDERAL REGULATIONS

CANADA

WHMIS Classification: D2B: Irritating to skin and eyes.

UNITED STATES: This SDS has been prepared to meet the US OSHA Hazard Communication Standard, 29 CFR 1910.1200

SARA Title III: No components are listed.

STATE REGULATIONS

Massachusetts	US Massachusetts Commonwealth's Right-to-Know Law (Appendix A to 105 Code of Massachusetts Regulations Section 670.000)
New Jersey	US New Jersey Worker and Community Right-to-Know Act (New Jersey Statute Annotated Section 34:5A-5)
Pennsylvania	US Pennsylvania Worker and Community Right-to-Know Law (34 Pa. Code Chap. 301-323)



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**California
California Prop 65:**

This product does not contain chemicals known to the State of California to be Carcinogenic.

SECTION 16: OTHER INFORMATION

HMIS Rating:

Health	Flammability	Physical Hazard	Personal Protection
2	0	0	B

Disclaimer:

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