Section 1: Identification

Product identifier

Trade Name: HERMETIC 4.8S Accelerator

Article No.: HERMETIC 4.8S Accelerator

Details of the supplier of the Safety Data Sheet Manufacturer:

Elite Crete Systems
1151 Transport Drive
Valparaiso, IN 46383
Toll Free: 888.323.4445
Tel: (219) 465-7671
Fax: (219) 531-0898
www.elitecrete.com

Emergency telephone number:

CHEMTREC US DOMESTIC: (800-424-9300)
CHEMTREC INTERNATIONAL: (703-527-3887)

Section 2: Hazard Identification

Emergency Overview: Danger. Causes severe skin burns and eye damage. Harmful if swallowed. May cause skin sensitization. Causes damage to organs. Toxic to aquatic life with long-lasting effects.

Component Information/Information on Non-Hazardous Components: No data available.

GHS Classification of the Substance or Mixture (29 CFR 1910.1200):

Skin corrosion	Category 1B
Serious eye damage	Category 1
Acute toxicity, oral	Category 4
Acute toxicity, dermal	Category 4
Reproductive toxicity	Category 2

GHS Hazards Pictograms:

Signal Word(s): Danger.

Hazard Statement(s):

H314 - Causes severe skin burns and eye damage
H317 - May cause an allergic skin reaction
H318 – Causes serious eye damage.
H341 - suspected of causing genetic defects
H360 - May damage fertility or the unborn child
H410 – Very toxic to aquatic life with long-lasting effects.

Precautionary Statement(s):

P201 – Obtain special instructions before use
P202 – Do not handle until all safety precautions have been read and understood
P260 - Do not breathe dust/ fume/ gas/ mist/ vapors/ spray.
P264 - Wash skin thoroughly after handling.
P270 – Do not eat, drink or smoke when using this product
P272 - Contaminated work clothing should not be allowed out of the workplace.
P273 – Avoid release to the environment
P280 - Wear protective gloves/ protective clothing/ eye protection/ face protection.
P281 – Use personal protective equipment as required
P301 + P330 + P331 – IF SWALLOWED: rinse mouth. Do NOT induce vomiting
P303 + P361 + P353 – IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
P304 + P340 + P310 – IF INHALED: Remove victim to fresh and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician
P305 + P351 + P338 + P310: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.
P307 + P311 – If exposed: Call a POISON CENTER or doctor/physician
P333 + P313 – If skin irritation or rash occurs: Get medical advice/attention
P391 – Collect spillage

Storage:

P403 + P235 - Store in a well-ventilated place. Keep cool.
P405 - Store locked up.

Disposal:

P501 - Dispose of contents/container to an approved waste disposal plant in accordance with applicable laws and regulations, and product characteristics at time of disposal.

Hazard(s) not otherwise classified (HNOC): None known.

Other Information:

None known.

Section 3: Composition/ Information on Ingredients

Substances

Chemical Name	Identifiers	% (by weight)	Comments
Polymerized tertiary amine	Trade secret	Trade secret	See above.
Zinc compound	Trade secret	Trade secret	

Section 4: First-Aid Measures

Inhalation: Move victims into fresh air. If breathing is labored, administer oxygen. If not breathing, give artificial respiration. Consult a doctor immediately.
Skin contact: Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Take victim immediately to hospital to obtain medical attention. Wash clothing before reuse. Destroy or thoroughly clean contaminated shoes before reuse.

Eye contact: Rinse immediately with plenty of water for 15 minutes and seek advice of an eye specialist/physician. Continue rinsing eyes during transport to hospital or poison control center.
Ingestion: Rinse out mouth, spit out liquid. Do not induce vomiting and seek medical advice/physician/poison control center immediately. Never give anything by mouth to an unconscious person.

Section 5: Fire-Fighting Measures

Suitable Extinguishing Media: Water fog, spray, foam, CO2, dry powder.
Unsuitable Extinguishing Media: High volume water jet.
Unusual Fire and Explosion Hazards: Firefighters should wear NFPA approved self-contained breathing apparatus and full protective clothing. Avoid contact with product. Decontaminate equipment and protective clothing prior to re-use. Toxic and irritating gases/fumes may be given off during burning or thermal decomposition. Keep unnecessary personnel away.
Hazardous Decomposition Products: On combustion, toxic gases, including nitrogen oxides, carbon monoxide, carbon dioxide, metal oxides.
Advice to Fire Fighters: Self-contained breathing apparatus and full protective clothing must be worn in case of fire, including self-contained breathing apparatus and NFPA compliant helmet, hood, boots and gloves. Use cold water spray to cool fire-exposed containers to minimize the risk of rupture. Toxic gases/fumes may be given off during burning or thermal decomposition.

Section 6: Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures

Wear appropriate personal protective equipment. Evacuate surrounding areas and isolate the area. Keep unnecessary and unprotected personnel from entering. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Implement site emergency response plan.

Environmental Precautions: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains, and sewers. Inform authorities if the product has caused environmental pollution (sewers, drains, waterways or soil).

Containment/Clean-up Measures: Cleanup personnel must use appropriate personal protective equipment. Evacuate and keep unnecessary personnel out of spill area. Remove all sources of ignition, including flames, heat, and sparks. Stop leak if without risk. Move containers from spill area. Dike or dam spilled material with non-combustible, absorbent material (e.g., sand, earth, vermiculite or diatomaceous earth) and control further spillage, where possible. Make certain the absorbent material soaks up all liquids.

Section 7: Handling and Storage

Handling: Do not breathe vapors or spray mist. Avoid contact with eyes or skin. Avoid contact with clothing. Use only with adequate ventilation and personal protection. Remove contaminated personal protective equipment (PPE), then wash hands and face thoroughly after handling and before eating and drinking. Keep container closed when not in use. Empty containers retain product residue and can be hazardous. Do not get in eyes, on skin or on clothing. Do not ingest. Keep away from heat, sparks, flames and other sources of ignition. Avoid release to the environment. Store in tightly closed containers to prevent moisture contamination. Do not reseal if contamination with moisture is suspected. Follow all SDS/label precautions even after container is emptied because it may retain product residues.
Storage: Keep away from food products during use and storage. Storage class (TRGS 510): non-combustible, acute toxic Category 3/toxic hazardous materials or hazardous materials causing chronic effects. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled, unapproved or reactive containers. Use appropriate containment to avoid environmental contamination. Personnel education and training in the safe use and handling of this product are required under OSHA Hazard Communication Standard 29 CFR 1910.1200.

Incompatible Materials or Ignition Sources: Stable under recommended storage conditions. Avoid water, air humidity, oxidizing agents, cotton waste or other combustible materials. Keep away from sources of ignition - No smoking. Additional guidance on fire and explosion protection may be found in various consensus standards, including NFPA 30, 69 and 77 and API 2003 as well as OSHA regulation 29CFR1910.106.

Section 8: Exposure Controls/ Personal Protection

Special Note for Exposure Control: Consult local authorities for further acceptable exposure limits.

Exposure Limits/ Guidelines		
Chemical Name	**Result**	**ACGIH/OSHA**
Polymerized tertiary amine/zinc compound mixture	STELs	No data available.
	TWAs	No data available.
	PEL	No data available.

Engineering Measures/Controls: General dilution and local exhaust as necessary to control airborne vapors, mists, dusts, and thermal decomposition products below appropriate airborne concentration standards and guidelines. A safety shower and eye wash fountain should be readily available. To identify additional Personal Protective Equipment (PPE) requirements, it is recommended that a hazard assessment in accordance with the OSHA PPE Standard (29CFR1910.132) be conducted before using this product. Exhaust air may need to be cleaned by scrubbers or filters to reduce environmental contamination. Curing ovens must be ventilated to prevent the build-up of explosive atmospheres and to prevent off-gases from entering the work place.

Environmental Exposure Controls: Avoid release to the environment. Construct a dike to prevent spreading of spills. Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Hygiene Measures: Wash hands, forearms and face thoroughly after handling chemical products, before eating and drinking, smoking or using the lavatory and at the end of the working period. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Personal Protective Equipment

Respiratory: Good general ventilation (e.g., 10 air changes per hour) should be used. In case of inadequate ventilation, wear respiratory protection. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. Use positive pressure supplied air respirator when airborne concentrations are not known, when airborne levels are 10 times the appropriate TLV, and when spraying is performed or product is applied by aerosol in a confined space or area with limited ventilation. If respirators are used, a program should be instituted to assure compliance with OSHA Standard 63 FR 1152, January 8, 1998. Contact health and safety professional or manufacturer for specific information.

Eye/Face: Use chemical resistant goggles. Chemical safety goggles in combination with a full face shield (8-inch minimum) must be used if a splash hazard exists. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).

Hands: Use permeation resistant gloves such as neoprene or nitrile. Nitrile glove thickness 0.4 mm minimum. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Skin/Body: Wear rubber or plastic apron and permeation resistant clothing, chemical-resistant gloves, and long-sleeved shirts, and pants. Gloves must be inspected prior to use. Remove and wash contaminated clothing before re-use.

General Industrial Hygiene Considerations: Keep away from food and drink. Wash hands and face after use. Educate and train workers in the safe use and handling of this product. Emergency showers and eye wash stations should be available. Follow all label instructions.

Key to Abbreviations:

ACGIH = American Conference of Governmental Industrial Hygiene
NIOSH = National Institute of Occupational Safety and Health
OSHA = Occupational Safety and Health Administration
MSHA = Mine Safety and Health Administration
TWA = Time-Weighted Averages are based on 8h/day 40hr/week exposures
STEL = Short Term Exposure Limits are based on 15 minute exposures

Section 9: Physical and Chemical Properties

Information on Physical and Chemical Properties

Physical Form	Liquid.	**Appearance/Description**	Clear.
Color	Light yellow	**Odor**	Minimal or no odor.
Boiling Point	Not available	**Vapor Density**	No data available.
Specific Gravity	1.14 ± 0.1	**UEL**	No data available
Water Solubility	No data available	**LEL**	No data available
Flash Point	94°C (201°F) TCC	**NVW**	100%

Section 10: Stability and Reactivity

Reactivity

No data available.

Chemical Stability: Stable under recommended storage conditions.
Possibility of Hazardous Reactions: No data available
Conditions to Avoid: No data available
Incompatible Materials: Strong bases, strong oxidizing agents.
Hazardous Decomposition Products: No data available.

Section 11: Toxicological Information

ACUTE TOXICITY

LD50 Oral Rat 1,144 mg/kg (OCED Test Guideline 401)
LD50 Inhalation No data available
LD50 Dermal Rabbit 400-640 mg/kg
Skin- Rabbit: No data available.
Eyes- Rabbit: No data available
Respiratory or skin sensitization – Maximization Test (GPMT) guinea Pig: No data available
Germ cell mutagenicity – In vitro tests showed mutagenic effects: No data available

CARCINOGENICITY

This product is or it contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification:
IARC, NTP, and OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen.
REPRODUCTIVE TOXICITY: Presumed human reproductive toxicant.
SPECIFIC TARGET ORGAN TOXICITY – SINGLE EXPOSURE: No data available
SPECIFIC TARGET ORGAN TOXICITY – REPEATED EXPOSURE: No data available **ASPIRATION HAZARD:** No data available.
ADDITIONAL INFORMATION: No data available
TO THE BEST OF OUR KNOWLEDGE THE CHEMICAL, PHYSICAL, AND TOXICOLOGICAL PROPERTIES OF THIS PRODUCT HAVE NOT BEEN THOROUGHLY INVESTIGATED.

Section 12: Ecological Information

Toxicity

Toxicity to daphnia and other aquatic invertebrates:	No data available
Persistence and degradability:	No data available
Bioaccumulative potential:	No data available.
Other adverse effects:	No data available

Section 13: Disposal Considerations

Waste Treatment Methods: Dispose in accordance with Federal, State, and Local laws and regulations. The generation of waste should be avoided or minimized wherever possible. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Empty containers should be taken to an approved waste handling site for recycling or disposal. Incineration or landfill should only be considered when recycling is not feasible. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Empty Container Precautions: Dispose of as unused product. Do not heat or cut container with electric or gas torch. Recondition or dispose of empty container in accordance with governmental laws and regulations. Do not reuse empty container without proper cleaning. Label precautions also apply to this container when empty.

Section 14: Transport Information

	14.1 UN Number	14.2 UN Proper Shipping Name	14.3 Transport Hazard Class(es)	14.4 Packing Group	14.5 Environmental Hazards
DOT	1760	Corrosive liquid, tertiary amine, n.o.s.	8	III	-
IMO/IMDG	1760	Corrosive liquid, tertiary amine, n.o.s.	8	III	None known
IATA/ICAO	1760	Corrosive liquid, tertiary amine, n.o.s.	8	III	Marine Pollutant: No EmS: F-A, S-B

Special Precautions for User:

Special Provisions:

DOT (IB3, T7, TP1, TP28; Packaging exceptions: 154; packaging non-bulk: 203; packaging bulk: 241)

IATA (Passenger and cargo aircraft: Allowed; Cargo aircraft only: Allowed)

IMDG (This material is not intended to be transported in bulk.

This product is not intended for Transport in bulk.

Section 15: Regulatory Information

State Right to Know				
Component	**RI**	**MA**	**NJ**	**PA**
Tertiary amine/zinc compound	Zinc compound	-	Zinc compound	-

Inventory				
Component	**CAS**	**Canada DSL**	**Canada NDSL**	**TSCA**
Tertiary amine/zinc compound	Mixture	**Listed**	**-**	**Listed**

HMIS Rating: 3 * 1 0

NFPA Rating: 3 1 0

This product is in compliance with the inventory listing of the following countries:

Australia (AICS) listed/registered

Japan (MITI) listed/registered

Korea (KECI) listed/registered

Philippines (PICCS)	listed/registered
China	listed/registered
New Zealand	listed/registered
Europe	listed/registered
Taiwan	listed/registered

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

US Federal Regulations

U.S. – CERCLA/SARA – Hazardous Substances and their Reportable Quantities: Zinc compound listed.
U.S. – SARA – Section 311/312 Hazard Categories: Not listed
U.S. – CERCLA/SARA – Section 302 Extremely Hazardous Substances TPQs: Not listed
U.S. – CERCLA/SARA – Section 313 – Emissions Reporting: Zinc compound (60-69%)
U.S. – CERCLA/SARA – Section 313 – PBT Chemical Listing: None
U.S. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 302 Extremely Hazardous Substance (40 CFR 355, Appendix A) Components: None
U.S. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 302 Extremely Hazardous Substance (40 CFR 372.65) Supplier Notification Required Components: None
U.S. Resource Conservation and Recovery Act (RCRA) Composite List of Hazardous Wastes and Appendix VIII Hazardous Constituents (40 CFR 261): Under RCRA it is the responsibility of the person who generates a solid waste, as defined in 40 CFR 261.2, to determine if that waste is a hazardous waste.

State Regulations

United States – California

U.S. – California – Proposition 65 – Carcinogens List: This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.).
U.S. – California – Proposition 65 – Developmental Toxicity: None
U.S. – California – Proposition 65 – Maximum Allowable Dose Levels (MADL): None
U.S. – California – Proposition 65 – No Significant Risk Levels (NSRL): None
U.S. – California – Proposition 65 – Reproductive Toxicity – Female: None
U.S. – California – Proposition 65 – Reproductive Toxicity – Male: None

Based on information provided by Pflaumer suppliers, this product is considered "DRC Conflict Free" as defined by the SEC Conflict Minerals Final Rule (Release No. 34-67716, File No. S7-40-10, Date 08-22-212).

Section 16: Other Information

Last Revision Date: DA
Preparation Date: 02/02/17
Disclaimer/ Statement of Liability:
This information is furnished without warranty, express or implied. This information is believed to be accurate to the best knowledge of Pflaumer Brothers, Inc. The information in this MSDS relates only to the specific material designated herein. Pflaumer Brothers, Inc. assumes no legal responsibility for use of or reliance upon the information in this SDS.

Key to Abbreviations
NDA = No data Available