SAFETY DATA SHEET

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Section 1

Identification

"Cutting edge science for the classroom"

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CHEMTREC 24 Hour Emergency Phone Number (800) 424-9300

For laboratory and industrial use only. Not for drug, food or household use.

Product EXOTHERMIC MIXTURE						
Synonyms Mixture of Iron powder, Sodium chloride, Calcium chloride, and Vermiculite	s Mixture of Iron powder, Sodium chloride, Calcium chloride, and Vermiculite					
Section 2 Hazards identification						
Signal word: WARNING Pictograms: GHS07 Target organs: Respiratory tract	Precautionary statement: P264: Wash hands thoroughly after handling. P270: Do not eat, drink or smoke when using this product. P280: Wear protective gloves/protective clothing/eye protection/face protection. P301+P330+P312: IF SWALLOWED: Rinse mouth. Call a POISON CENTER or doctor if you feel unwell. P305+P351+P338: IF IN EYES: Rinse cautiously with water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313: If eye irritation persists: Get medical attention. P501: Dispose of contents/container to a licensed chemical disposal agency in accordance with local/regional/national regulations.					

Hazards not otherwise classified:

Health hazards not otherwise classified (HHNOC) - Not Known Physical hazards not otherwise classified (PHNOC) - Not Known

Section 3	Section 3 Composition / information on ingredients				
Chemical Name		CAS #	%	EINECS	
Iron metal, 100 mes Calcium chloride, di Sodium chloride Vermiculite		7439-89-6 10035-04-8 7647-14-5 1318-00-9	79.8% >15.9% >3.9% 0.3%	231-096-4 233-140-8 (anhydrous) 231-598-3 None	
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Section 4 First aid measures

INGESTION: HARMFUL IF SWALLOWED. Call physician or Poison Control Center immediately. Induce vomiting only if advised by appropriate medical personnel. Never give anything by mouth to an unconscious person.

INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

EYE CONTACT: CAUSES SERIOUS EYE IRRITATION. Check for and remove contact lenses. Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention.

SKIN ABSORPTION: Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention.

Section 5 Fire fighting measures

Suitable Extinguishing Media: Use any media suitable for extinguishing supporting fire.

Protective Actions for Fire-fighters: In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective gear. Use water spray to keep fire-exposed containers cool.

Specific Hazards: During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Heat is generated when product mixes with water. A fire hazard in the form of a fine dust dispersed in air or by chemical reaction with strong oxidizers can be an explosion hazard, especially when heated.

Section 6 Accidental release measures

Personal Precautions: Evacuate personnel to safe area. Use proper personal protective equipment as indicated in Section 8. Provide adequate ventilation.

Environmental Precautions: Avoid runoff into storm sewers and ditches which lead to waterways.

Containment and Cleanup: Sweep or vacuum up and place in a suitable container for proper disposal. Wash spill area with soap and water.

Section 7 Handling and storage

Precautions for Safe Handling: Read label on container before using. Do not wear contact lenses when working with chemicals. Keep out of reach of children. Avoid contact with eyes, skin and clothing. Do not inhale dusts. Use with adequate ventilation. Avoid ingestion. Wash thoroughly after handling. Remove and wash clothing before reuse.

Conditions for Safe Storage: Hygroscopic material. Store in a cool, dry, well-ventilated area away from incompatible substances. Keep away from ignition sources.

Section 8	Exposure controls / personal protection				
Exposure Limits:	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)	
	Particulates not otherwise classified	None established	TWA: 15 mg/m ³ total dust	None established	

Engineering controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower and fire extinguishing material. Personnel should wear safety glasses, goggles, or faceshield, lab coat or apron, appropriate protective gloves. Use adequate ventilation to keep airborne concentrations low.

Respiratory protection: None should be needed in normal laboratory handling at room temperatures. If dusty conditions prevail, work in fume hood or wear a NIOSH/MSHAapproved respirator.

approved respirator.							
Section 9 Physical and chemical properties							
Odor: No odor. Odor threshold: Dat pH: Data not availab	le. pint: Data not available not available	Evaporation rate (=1): Not appli Flammability (solid/gas): Data no Explosion limits: Lower / Upper: Vapor pressure (mm Hg): Data not Vapor density (Air = 1): Data not a Relative density (Specific gravity): Dat Solubility(ies): Insoluble in water.	: available. Data not available t available vailable	Auto-ignitio Decomposit Viscosity: [Molecular fo		: Data not available re: Data not available. ile. e	
Section 10	Stability and reactivity						
Chemical stability: Stable Hazardous polymerization: Will not occur. Conditions to avoid: Excessive temperatures, heat, sparks, open flame and other sources of ignition. Keep away from acids. Oxidizes readily in moist air. Protect from moisture. Incompatible materials: Strong oxidizers, acids. Reacts violently with chlorine, chlorine difluoride, fluorine, hydrogen peroxide, nitrogen oxide, phosphorous and sulfuric acid. Contact with water or moisture may generate heat. Hazardous decomposition products: None known.							
Section 11	Toxicological information	ı					
Skin corrosion/irrita Serious eye damage Respiratory or skin Germ cell mutageni Carcinogenity: Data NTP: No component IARC: No component Ca Prop 65: This pro Reproductive toxici STOT-single expost STOT-repeated expo Aspiration hazard: Potential health effe Inhalation: Dust may Ingestion: Low toxici Skin: Contact with sł Eyes: Contact with sł Eygs and symptom not available. Exerci	ation: Data not available e/irritation: Data not available sensitization: Data not available icity: Data not available of this product present at level t of this product	able s greater than or equal to 0.1% is iden els greater than or equal to 0.1% is ider els greater than or equal to 0.1% is ide nicals known to the State of California espiratory tract (nose and throat). e amounts may result in gastrointestin defatting on prolonged contact. n and/or corneal injury. f our knowledge the chemical, physical ninimize potential hazards.	ified as a known or an itified as probable, pos ntified as a carcinoger to cause cancer or rep al irritation or ulceration	ssible or confirm n or potential ca oroductive toxic	ned human carc arcinogen by OS ity.	SHA.	
Section 12	Ecological information						
Section 12 Ecological information Toxicity to fish: Lepomis macrochirus (bluegill) LC50: 8,350-10,650 mg/L [Calcium chloride] Toxicity to daphnia and other aquatic invertebrates: Daphnia magna (water flea), LC50: 759-3,005 mg/L [Calcium chloride] Toxicity to algae: No data available Persistence and degradability: No data available Mobility in soil: No data available PBT and vPvB assessment: No data available Other adverse effects: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.							
Section 13 Disposal considerations							
These disposal guidelines are intended for the disposal of catalog-size quantities only. Federal regulations may apply to empty container. State and/or local regulations may be different. Dispose of in accordance with all local, state and federal regulations or contract with a licensed chemical disposal agency. Section 14 Transport information							
UN/NA number: Hazard class: Not Exceptions: Not	Not applicableShipot applicablePacapplicable202	pping name: Not Regulatedking group: Not applicableD ERG Guide # Not applicable	Reportable Qua	ntity: No	Ma	arine pollutant: No	
Section 15	Regulatory information						
		the anhydrous form is on the Inventory list.					
Compone Iron metal Calcium chloride Sodium chloride		TSCA CERLCA (RQ) Listed Not listed Listed Not listed Listed Not listed	RCRA code Not listed Not listed Not listed	DSL Listed Listed Listed	NDSL Not listed Not listed Not listed	CA Prop 65 This product does not contain any chemicals known to the State of California to cause cancer or reproductive toxicity.	
Section 16	Other information						
		anty of any kind. Employers should use this					

dent determinations of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. NTP: National Toxicology Program, IARC: International Agency for Research on Cancer, OSHA: Occupational Safety and Health Administration, STOT: Specific Target Organ Toxicity, SE: Single Exposure, RE: Repeated Exposure, ERG: Emergency Response Guidebook. Form 06/2015