



Material Safety Data Sheet



HMIS	
Health Hazard	3
Fire Hazard	0
Reactivity	1

PPE (See Section 15)



Section 1. Chemical Product and Company Identification

Common Name/ Trade Name	Calcium Fusion Test 1	Code	RE2126
		CAS #	5794-28-5
Manufacturer	HazTech Systems, Inc. P.O. Box 929 Mariposa, CA 95338	RTECS	
		TSCA	
Commercial Name	Calcium oxalate		
Synonym	calcium oxalate, monohydrate	CI #	
Chemical Name		In case of emergency contact CHEMTREC (24 hours) at 800-424-9300	
Chemical Family			
Chemical Formula		HazTech Systems, Inc. 800-337-2497	
Supplier	Alfa Aesar, A Johnson Matthey Company Johnson Matthey Catalog Company, Inc. <input type="checkbox"/> 30 Bond Street Ward Hill, MA 01835-8099		

Section 2. Composition and Information on Ingredients

Chemical characterization:
Description: CAS# 5794-28-5
Calcium oxalate, monohydrate 100%

Identification number(s): EINECS Number:209-260-1
EU Number: 607-007-00-3

Section 3. Hazards Identification

Hazard description:  Xn Harmful

Information pertaining to particular dangers for man and environment
R 21/22 Harmful in contact with skin and if swallowed.

Classification system
HMIS ratings (scale 0-4) (Hazardous Materials Identification System)

HEALTH	3	Health (acute effects) = 3
FIRE	0	Flammability = 0
REACTIVITY	1	Reactivity = 1



Section 4. First Aid Measures

After inhalation:
Supply fresh air. If required, provide artificial respiration. Keep comfortable.
Seek immediate medical advice.

After skin contact:
Immediately wash with water and soap and rinse thoroughly.
Seek immediate medical advice.

After eye contact:
Rinse opened eye for several minutes under running water. Then consult a doctor.
After swallowing Seek immediate medical advice.

Section 5. Fire and Explosion Data

Suitable extinguishing agents:
CO₂, extinguishing powder or water spray. Fight larger fires with water spray.

Special hazards caused by the material, its products of combustion or resulting gases:
In case of fire, the following can be released:

Carbon monoxide and carbon dioxide
Metal oxide

Protective equipment:
Wear self-contained respirator.
Wear fully protective impervious suit.

Section 6. Accidental Release Measures

Person-related safety precautions:
Wear protective equipment. Keep unprotected persons away.
Ensure adequate ventilation.

Measures for environmental protection:
Do not allow material to be released to the environment without proper governmental permits.

Measures for cleaning/collecting:
Dispose contaminated material as waste according to item 13.

Additional information:
See Section 7 for information on safe handling
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

**Section 7. Handling and Storage**

Handling: Information for safe handling: Keep container tightly sealed. Store in cool, dry place in tightly closed containers. Ensure good ventilation at the workplace. Information about protection against explosions and fires: No special measures required. Storage: Requirements to be met by storerooms and receptacles: No special requirements. Information about storage in one common storage facility: Store away from water/moisture. Further information about storage conditions: This product is hygroscopic. Keep container tightly sealed. Store in cool, dry conditions in well sealed containers. Protect from humidity and water.

Section 8. Exposure Controls/Personal Protection

Additional information about design of technical systems: Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute. Components with limit values that require monitoring at the workplace: Not required.

Additional information: No data Personal protective equipment. General protective and hygienic measures

The usual precautionary measures for handling chemicals should be followed. Keep away from foodstuffs, beverages and feed.

Remove all soiled and contaminated clothing immediately. Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

Breathing equipment:

Use suitable respirator when high concentrations are present.

Protection of hands: Impervious gloves

Eye protection: Safety glasses

Body protection: Protective work clothing.

Section 9. Physical and Chemical Properties

Form: <input type="checkbox"/>	Powder	Decomposition temperature: <input type="checkbox"/>	Not determined
<input type="checkbox"/>			
Color: <input type="checkbox"/>	White	Danger of explosion: <input type="checkbox"/>	Product does not present an explosion hazard.
<input type="checkbox"/>			
Odor: <input type="checkbox"/>	Not determined.	Explosion limits:	
		Upper: <input type="checkbox"/>	Not determined
Melting point/Melting- range: <input type="checkbox"/>	200°C (392°F) ((-H20))	Vapor pressure: <input type="checkbox"/>	Not determined
Boiling point/Boiling range: <input type="checkbox"/>	Not determined	Density at 20°C (68°F):	2.12 g/cm ³
Sublimation temperature / start: <input type="checkbox"/>	Not determined	Solubility in/miscibility with water:	Insoluble
Flash point: <input type="checkbox"/>	Not applicable		
Ignition temperature:	Not determined		

Section 10. Stability and Reactivity Data

Thermal decomposition / conditions to be avoided:

Decomposition will not occur if used and stored according to specifications.

Materials to be avoided:

Oxidizing agents

Water/moisture

Dangerous reactions No dangerous reactions known

Dangerous products of decomposition:

Carbon monoxide and carbon dioxide

Metal oxide fume



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Section 11. Toxicological Information

Acute toxicity:

Primary irritant effect: on the skin: Irritant to skin and mucous membranes. on the eye: Irritating effect.

Sensitization: No sensitizing effects known.

Subacute to chronic toxicity:

Oxalates are powerful irritants and corrosive to tissue. They have a caustic effect on the mouth, esophagus and stomach.

Readily absorbed, they can cause severe kidney damage.

Additional toxicological information:

Danger through skin absorption.

To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.

No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.

Section 12. Ecological Information

General notes:

Do not allow material to be released to the environment without proper governmental permits.

Section 13. Disposal Considerations

Product Recommendation:

Consult state, local or national regulations to ensure proper disposal.

Disposal must be made according to official regulations.

Section 14. Transport Information

DOT regulations:

Hazard class: 6.1
 Identification number: UN3288
 Packing group: III
 Proper shipping name
 (technical name): Toxic solid, inorganic, n.o.s.
 (calcium oxalate)

Maritime transport IMDG:

IMDG Class: 6.1
 UN Number: 3288
 Packaging group: III
 Proper shipping name: Toxic solid, inorganic,
 n.o.s. (calcium oxalate)

Land transport ADR/RID (cross-border)

ADR/RID class: 6.1 Toxic substances
 Item: 65c
 Danger code (Kemler): 60
 UN-Number: 3288
 Description of goods: Toxic solid, inorganic, n.o.s.
 (calcium oxalate)

Air transport ICAO-TI and IATA-DGR:

ICAO/IATA Class: 6.1
 UN/ID Number: 3288
 Packaging group: III
 Proper shipping name: Toxic solid, inorganic,
 n.o.s. (calcium oxalate)

Section 15. Other Regulatory Information and Pictograms

Product related hazard information:

Hazard symbols: Xn Harmful

Risk phrases: 21/22 Harmful in contact with skin and if swallowed.

Safety phrases: 24/25 Avoid contact with skin and eyes.

National regulations

All components of this product are listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical
 Substance Inventory.

Information about limitation of use:

For use only by technically qualified individuals.



Section 16. Other Information

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgment of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user. Department issuing MSDS: Health, Safety and Environmental Department.

Contact: Darrell R. Sanders

Validated by: R. Turkington

Verified by: R. Turkington

Call 1-800-543-5487

Notice to Reader

All chemicals may pose unknown hazards and should be used with caution. This Material Safety Data Sheet (MSDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this MSDS. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this MSDS is based on technical data judged to be reliable, Spectrum Quality Products, Inc. assumes no responsibility for the completeness or accuracy of the information contained herein.