

MATERIAL SAFETY DATA SHEET

Page: 1 of 6

DATE PREPARED: March 20, 2003

Rev. Date: August 18, 2004

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identifier: Oxygen Function Amino-compounds
General Use: Dietary Supplement

COMPANY NAME: Vireo Systems, Inc.
305 Williams Avenue
Madison, TN, USA 37115

PHONE NUMBERS: 615-865-8310

TRADE NAMES/SYNONYMS:

- CON-CRĒT®
- Conjugated Creatine
- Creatine (Powdered Form)
- Amino Acids (Powdered Form)
- Creatine Hydrochloride

2. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Material</u>	<u>CAS Number</u>	<u>wt. %</u>	APPLICABLE EXPOSURE LIMITS	
			<u>PEL-OSHA</u>	<u>TLV-ACGIH</u>
Conjugated Creatine	17050-09-8	99%	Not applicable	Not applicable
Creatinine HCL	19230-81-0	<1%	Not applicable	Not applicable

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

Health Rating: 1 – Slight
Flammability Rating: 0 – None
Reactivity Rating: 1 – Slight
Contact Rating: 1 – Slight
Storage Color Code: Green (General Storage)

MATERIAL SAFETY DATA SHEET

Page: 2 of 6

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POTENTIAL HEALTH EFFECTS

INHALATION: No adverse health effects expected from inhalation. May cause mild irritation to the respiratory tract.

EYE CONTACT: Not expected to be a health hazard. May cause mild irritation, possible reddening.

SKIN CONTACT: Not expected to be a health hazard from skin exposure. May cause mild irritation and redness.

INGESTION: Not expected to be a health hazard via ingestion. Large oral doses may cause irritation to the gastrointestinal tract.

CHRONIC: No data available.

SAFETY PRECAUTIONS

CARCINOGENICITY: *None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, OSHA, or ACGIH as a carcinogen.*

4. FIRST AID MEASURES

INHALATION: Not expected to require first aid measures. Remove to fresh air. Get medical attention for any breathing difficulty.

INGESTION: Not expected to require first aid measures. If large amounts were swallowed, give water to drink and get medical advice.

SKIN CONTACT: Not expected to require first aid measures. Wash exposed area with soap and water. Get medical advice if irritation develops.

EYE CONTACT: Not expected to require first aid measures. Wash thoroughly with running water. Get medical advice if irritation develops.

MATERIAL SAFETY DATA SHEET

Page: 3 of 6

DATE PREPARED: March 20, 2003

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CHRONIC: No information available.

5. FIRE FIGHTING MEASURES

Flash Point:	Not applicable (powder).
Method :	Not applicable.
Flammable Limits in Air, % by Volume	LEL: No data available. UEL: No data available.
Autoignition:	Not considered to be a fire hazard.

GENERAL HAZARD

Dangerous fumes released as combustion products include carbon oxides and nitrogen oxides.

FIRE FIGHTING INSTRUCTIONS

Suitable extinguishing media include: water spray, dry chemical, carbon dioxide (CO₂) and foam.

High volume water jet should be avoided since a water stream directed into the fire may cause frothing with subsequent spread of the fire.

FIRE FIGHTING EQUIPMENT

Wear self-contained breathing apparatus (SCBA) and a protective suit.

6. ACCIDENTAL RELEASE MEASURES

SPILL, LEAK, OR RELEASE

NOTE: Review Sections 3, 4, and 5 of this MSDS before proceeding with clean up. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean up.

INITIAL CONTAINMENT: Not applicable.

ACCIDENTAL RELEASE MEASURES: Ensure adequate ventilation.

SPILL CLEAN UP: Sweep up loose material and shovel into waste container. Dispose of in accordance with applicable federal, state and local regulations.

MATERIAL SAFETY DATA SHEET

Page: 4 of 6

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7. HANDLING AND STORAGE CONDITIONS

PERSONNEL: Handle in accordance with good industrial hygiene practice.

Avoid breathing vapors/dust/mist. Avoid contact with eyes, skin and clothing. Wash contact areas after handling. Ensure adequate ventilation. Follow all label and literature procedures and precautions.

STORAGE: Keep in tightly closed containers.

Use containers made of polyethylene or polypropylene.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE GUIDELINES

See Section 2. No limit values are known.

ENGINEERING CONTROLS

Use local exhaust as needed to control dust levels to below recommended limits and/or prevent health and safety effects as indicated in Section 2 and elsewhere on the MSDS.

PERSONAL PROTECTION

EYE/FACE: Safety glasses.

RESPIRATOR: If inhalation effects occur, or if use is in a poorly ventilated space or area with limited ventilation, use a NIOSH approved respirator in accordance with 29 CFR 1910.134. If use is performed in a confined space, use a NIOSH approved positive-pressure supplied-air respirator in accordance with applicable health and safety regulations.

PROTECTIVE CLOTHING: Use protective gloves.

HYGIENE MEASURES: Wash hands before breaks and at the end of the workday.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: White powder
Odor: Odorless

MATERIAL SAFETY DATA SHEET

Page: 5 of 6

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Physical State:	Solid
pH:	No data available
Vapor Pressure:	No data available
Vapor Density:	No data available.
Melting Point:	255 Degrees C.
Decomposition Temperature:	300 Degrees C.
Bulk Density:	No data available.
Water Solubility:	Slightly Soluble.
Molecular Weight	167.5

10. STABILITY AND REACTIVITY

GENERAL: This product is considered stable if stored and applied as recommended.

INCOMPATIBLE MATERIALS AND CONDITIONS TO AVOID:

Avoid strong acids, strong bases and strong oxidizing agents.

Avoid high temperatures.

HAZARDOUS DECOMPOSITION PRODUCTS: Ammonia.

OTHER HAZARDS: None.

11. TOXICOLOGICAL INFORMATION

EYE: No data available.

SKIN: No data available.

INGESTION: No data available.

INHALATION: No data available.

SUBCHRONIC: No data available.

CHRONIC/CARCINOGENICITY: No data available.

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