



Material Safety Data Sheet

MATRIX NUTRITION

SECTION 1 PRODUCT AND COMPANY IDENTIFICATION

Product Name: NovoChlor + **Product Code:** MN-1004
Product Use: Anionic supplement for close-up dairy dry cows
Issue Date: September 28, 2009 **Supersedes Date:** April 2009
Manufacturer's [U.S.A]: Matrix Nutrition LLC **24-Hour Emergency Phone Numbers**
Name/Address: 4120 N. 38th Drive Phoenix: (602) 885-0325
Phoenix, AZ 85019 **CHEMTREC: (800) 424-9300**

SECTION 2 HAZARDS IDENTIFICATION

Potential Health Effects

Likely Routes of Exposure: Dust inhalation, dust contact with eyes, ingestion

Eyes: Contact with eyes will cause eye irritation

Skin: Prolonged or repeated contact with product may cause irritation

Inhalation: (Acute & Chronic) Prolonged exposure to respirable NovoChlor Plus may cause breathing difficulties. Seek fresh air immediately.

Ingestion: Ingestion may cause digestive tract irritation. Do not induce vomiting. See physician immediately.

SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

<u>Component</u>	<u>CAS#</u>	<u>% (BY WEIGHT)</u>
Hydrochloric Acid	7647-01-0	3% - 35%
Glycerin	56-81-5	1.5% - 3.8%
Malic Acid	617-48-1	.5% - 3.8%
Animal Feed Grade Pulp (fine and course)	Proprietary	25% - 58%

SECTION 4 FIRST AID MEASURES

Eyes: Hold eyes open and rinse with water for 15 minutes. Remove contact lenses, if present, after the first 5 minutes, and then continue rinsing eyes. Call a poison control center or doctor for treatment advice.

Ingested: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to unconscious person.

Inhalation: Move person to fresh air. If the person is not breathing call 911, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.

Contact with skin or clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 minutes. Call a poison treatment center or doctor for treatment advice.



Material Safety Data Sheet

MATRIX NUTRITION

SECTION 5 FIRE FIGHTING MEASURES

Flash Point (Deg. F) Method Used: N/A/TCC Flammable Limits: N/A

Extinguishing Media: Water Fog, Foam, Carbon Dioxide, Dry Chemical

Unusual Fire and Explosion Hazards: Smoke may contain carbon dioxide as result of product decomposition.

Special Fire Fighting Procedures: Full face coverage self-contained breathing apparatus.

Evacuate nonessential personnel from areas to prevent human exposure to fire, smoke, fumes or products of combustion. Water runoff from fire fighting may contain product residues, dike to prevent runoff from contaminating water supplies.

SECTION 6 ACCIDENTAL RELEASE NUMBERS

Steps to be taken in case material is released or spilled: Small spills-take up on absorbent material. Large spills-take up on absorbent material. Wear chemical safety glasses or chemical goggles, rubber gloves, rubber boots, long sleeved shirt, long pants to prevent contact with spilled material. Use a dry absorbent to soak up spill. Sweep up and place in an approved chemical container. Seal the container and handle in a safe manner. Clean area with water and detergent. Do not allow wash water to contaminate water supplies. Product is highly toxic to fish. Water disposal Method: Dispose of in accordance with current Federal, state and local regulations.

SECTION 7 HANDLING AND STORAGE

Handling: Use only with adequate ventilation. Avoid prolonged or repeated contact with skin. Wear OSHA Standard goggles or face shield. Consult Safety Equipment Supplier. Wear gloves, apron & footwear impervious to this material. Wash clothing before reuse.

Storage: Isolate from strong oxidants. Do not store above 49 C/120 F. Keep container tightly closed and upright when not in use to prevent leakage.

SECTION 8 EXPOSURE CONTROL/PERSONAL PROTECTION

Respiratory Exposure Controls: A respiratory protection program that meets OSHA 29 CFR 1910.134 and ANSI z86.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant a respirator's use.

Ventilation:

Local Exhaust	: Necessary
Mechanical (General)	: Acceptable
Special	: None
Other	: None

Please refer to ACGIH document, "Industrial Ventilation, A Manual of Recommended Practices", most Recent edition, for details.



Material Safety Data Sheet

MATRIX NUTRITION

Personal Protections: Wear OSHA Standard goggles or face shield. Consult Safety Equipment Supplier. Wear gloves, apron & footwear impervious to this material. Wash clothing before use.
Work & Hygienic Practices: Provide readily accessible eye wash stations & safety showers. Wash at end of each work shift & before eating, smoking or using the toilet. Promptly remove clothing that becomes contaminated. Destroy contaminated leather articles. Launder or discard contaminated clothing.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Dark brown matrix	Odor: Mild to pungent smell	
Physical State: Flakey	pH: <1 @ 5% aqueous solution	
Solubility (in water): Miscible	Particle Size: Granular	
Flammability (solid): Combustible	Melting Point: N/A	
Bulk Density: N/A	Molecular Formula: N/A	Molecular weight: N/A

SECTION 10 STABILITY AND REACTIVITY

Stability: Stable

Decomposition Products: This product when heated will decompose and emit toxic hydrogen chloride fumes. Thermal oxidative decomposition produces toxic chlorine fumes and explosive hydrogen gas.

Materials with which substance is incompatible: This product reacts with strong oxidizing agents, reducing agents, metals, bases, aldehydes, epoxides, explosives, acetylides, borides, carbides, silicides, cyanides, sulfides and phosphates. Do not mix this product with sodium hypochlorite, sodium bisulfate, chlorine sanitizers or chlorinated cleaners – a deadly gas can be formed. Reacts with common metals to liberate hydrogen gas, which can form explosive mixtures in the air.

Hazardous Polymerization: Product will not polymerize. Reaction with some incompatible materials such as acetylides and epoxides can cause polymerization.

Conditions to avoid: Avoid exposure or contact to extreme temperatures, sparks, other sources of ignition and incompatible chemicals.

SECTION 11 TOXICOLOGICAL INFORMATION

Reported Human Effects: No human data are available for this product.

Reported Animal Effects: Animal Feed Supplement

SECTION 12 ECOLOGICAL INFORMATION

Mammalian Information: No mammalian information is available on this product.

Aquatic Animal Information: No aquatic environmental information is available on this product.



Material Safety Data Sheet

Mobility: Mobility of this material has not been determined.

Degradability: This product is completely biodegradable.

Accumulation: Bioaccumulation of this product has not been determined.

SECTION 13 DISPOSAL CONSIDERATIONS

Preparing wastes for disposal: Waste disposal must be in accordance with appropriate Federal, State, and local regulations. This product, if unaltered by use, may be disposed of by treatment at a permitted facility or as advised by your local hazardous waste regulatory authority.

EPA waste number: D002 (Characteristic, Corrosivity), applicable to wastes consisting of this solution

SECTION 14 TRANSPORT INFORMATION

Shipment in the United States of America (DOT): N/A (Animal Feed)

Shipment by water (IMO): N/A (Animal Feed)

Shipment by air (ICAO & IATA): N/A (Animal Feed)

SECTION 15 REGULATORY INFORMATION

TSCA: N/A

CERCLA (RQ): N/A

SARA Title III: N/A

California Proposition 65: N/A

New Jersey: N/A

Canada – WHMIS: N/A

Inventories: N/A

SECTION 16 OTHER INFORMATION

Health (NFPA): 2 HMIS® Rating Health: 2 Flammability: 1 Reactivity: 2

This information is intended solely for the use of individuals trained in the NFPA & HMIS hazard rating system.

Employee Training: Employees should be made aware of all hazards of this material (as stated in this MSDS) before handling it.

NOTICE

BE SAFE , READ OUR PRODUCT SAFETY INFORMATION BEFORE USING, AND PASS IT ON. Product liability law requires it. The information provided in this Material Safety Data Sheet has been obtained from sources believed to be reliable. The manufacturer provides no warranties, either expressed or implied and assumes no responsibility for the accuracy or completeness of the data contained herein. This information is offered for your information, consideration and investigation. You should satisfy yourself that you have all current data relevant to your particular use.