



Material Safety Data Sheet

Section I. Chemical Product and Company Information

PRODUCT NAME:	Urea Calcium Chloride 143% UPN
TRADE NAME:	RUMA PRO
SYNONYM:	Ammonium Calcium Liquid
CHEMICAL NAME:	Not applicable. A blend
CHEMICAL FAMILY:	Ammonium salt
CHEMICAL FORMULA:	Not available
MATERIAL USES:	Animal NPN supplement

MANUFACTURER
UNIPRO
5626 W. 19th Street, Suite B
Greely, CO 80634

Company's Emerg. Ph #
1-800-558-3341
Date: MSDS prepared: June 1, 2000
MSDS Serial Number: UII-101

Section II. Hazardous Ingredients

No regulated components

Section III. Hazards Identification

POTENTIAL ACUTE HEALTH EFFECTS	This product may irritate eyes and skin upon prolonged or repeated contact. Ingestion of this substance may produce irritation of the gastrointestinal tract, characterized by burning and diarrhea.
POTENTIAL CHRONIC HEALTH EFFECTS	There is no known effect from chronic exposure to this product.

Section IV. first aid Measures

EYE CONTACT	May cause skin irritation. Check for and remove any contact lenses. IMMEDIATELY flush eyes with running water for at least 15 minutes keeping eyelids open. Obtain medical attention if irritation persists.
MINOR SKIN CONTACT	May cause skin irritation. Wash contaminated skin with soap and water. Wash contaminated clothing before reusing.
INTENSIVE SKIN CONTACT	No additional remarks.
MINOR INHALATION	Repeated or prolonged inhalation of mists may lead to respiratory irritation. Loosen tight clothing around the individual's neck and waist. Allow the person to rest in a well ventilated area. Obtain medical attention if irritation persists.
SEVERE INHALATION	No additional remarks.
SLIGHT INGESTION	Have conscience person drink several glasses of water or milk. INDUCE VOMITING. Lower the head so that the vomiting will not reenter the mouth and throat. NEVER give an unconscious person anything to ingest. Obtain medical attention.
INTENSIVE INGESTION	No additional information

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Section V. Fire and Explosion Data

THE PRODUCT IS	Non-flammable.
AUTO - IGNITION TEMPERATURE	Not applicable.
FLASH POINT	Not applicable.
FLAMMABILITY LIMITS	Not applicable.
PRODUCTS OF COMBUSTION	Material will not burn.
FIRE HAZARD IN THE PRESENCE OF VARIOUS SUBSTANCES	Not applicable.
EXPLOSION HAZARD IN THE PRESENCE OF VARIOUS SUBSTANCES	This product is non-explosive.
FIRE FIGHTING MEDIA AND INSTRUCTIONS	Non-flammable. Use extinguishing media suitable for surrounding materials.
SPECIAL REMARKS ON FIRE HAZARDS	Non combustible.
SPECIAL REMARKS ON EXPLOSION HAZARDS	No additional remark.

Section VI. Accidental Release Measures

SMALL SPILL	Absorb with an inert material and place in an appropriate waste container. Ensure disposal complies with local regulations
LARGE SPILL	Stop leak if possible to do so without risk. Dike and contain spilled material. Ensure that the spilled material does not enter sewers, wells or watercourses. Product will promote algae growth and degrade water quality and taste. Notify downstream water users. Pump up spilled material and place in suitable containers for reuse or disposal. Call for information on disposal alternatives. Insure disposal is in conformance with local regulations.

Section VII. Handling and Storage

PRECAUTIONS	After handling, always wash hands thoroughly with soap and water. Avoid contact with skin and eyes. Keep away from food, drink and animal feeds. Avoid contact with incompatible substances. Keep out of the reach of children.
STORAGE	Stores well at any temperature.

Section VIII. Exposure Controls/Personal Protection

PRECAUTIONS	Use process enclosures, local exhaust ventilation, or other engineering controls to keep air borne levels below recommended exposure limits. If user operations generate mists, use ventilation to keep exposure limited.
PERSONAL PROTECTION	The selection of personal protective equipment varies, depending upon conditions of use. Where skin and eye contact may occur as result of brief periodic exposures, wear long sleeved clothing, coveralls, chemical resistant gloves, and safety glasses with side shields.
PERSONAL PROTECTION IN CASE OF LARGE RELEASE	Wear a NIOSH approved dust or mist respirator if engineering.
EXPOSURE LIMITS	Wear long sleeved clothing or coveralls for long term exposure. Has not been established.



Section IX. Physical and Chemical Properties

PHYSICAL STATE AND APPEARANCE	Liquid. (Clear to slightly straw colored)	COLOR	Clear to straw colored
MOLECULAR WEIGHT	Not available	ODOR	Odorless
ph	7.5	THRESHOLD	
BOILING POINT	285 deg. F	VOLATILITY	None
CRITICAL TEMPERATURE	N/A	SOLUBILITY	Easily soluble in cold or hot water
SPECIFIC GRAVITY	1.34	DISPERSION	
BULK DENSITY	11.2# PER GAL	PROPERTIES	Easily dispersed in any proportion of cold or hot water
VAPOR PRESSURE	Not available		
VAPOR DENSITY	Not available		

Section X. Stability and Reactive Data

STABILITY	This product is stable.
INSTABILITY TEMPERATURE	Not available.
CONDITIONS OF INSTABILITY	No additional remarks.
CORROSIVITY	Very incompatible with sulfuric acid and most poly phosphates.
SPECIAL REMARKS ON CORROSIVITY	Incompatible with copper alloys. Corrosive to brass, ferrous metals and alloys.

Section XI. Toxicological Information

SIGNIFICANT ROUTES OF EXPOSURE	Inhalation.
TOXICITY TO ANIMALS	Use of this product is restricted to directions on the label.
SPECIAL REMARKS ON TOXICITY TO ANIMALS	More than recommended amounts could result in ammonia toxicity.
OTHER EFFECTS ON HUMANS	No additional information or remarks on this product.

Section XII. Ecological Information

ECOTOXICITY	Non-persistent and non-cumulative when applied using normal practices.
PRODUCTS OF DEGRADATION	This is a very slow release nitrogen, but will eventually change to nitrogen oxides.
TOXICITY OF THE PRODUCTS OF DEGRADATION	The products of biodegradation are not harmful under normal conditions of slow metabolic release.
SPECIAL REMARKS ON THE PRODUCTS OF DEGRADATION	Product will promote algae growth and may degrade water quality and taste. Notify downstream water users. Will disperse in water. Reclaiming material may not be viable.

Section XIII. Disposal Considerations

WASTE DISPOSAL OR RECYCLING	Pump up spilled material and place in suitable containers for reuse or disposal. Call for information on disposal alternatives.
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Insure disposal is in conformance with local regulations.

Section XIV. Transportation Information

DOT	Not controlled.
SPECIAL PROVISIONS FOR TRANSPORT	Not applicable

Section XV. Other Information

OTHER SPECIAL CONSIDERATIONS	Not controlled.
FOR FURTHER SAFETY, HEALTH OR ENVIRONMENTAL INFORMATION ON THIS PRODUCT, CONTACT	UNIPRO International, Inc. 1-800-558-3341

NOTICE TO READER

The buyer assumes all risk in connection with the use of this material. The buyer assumes all responsibility to ensuring this material is used in a safe manner in compliance with applicable environmental, health and safety laws, policies and guidelines. UNIPRO International, Inc. assumes no responsibility for liability for the information supplied.