



# UNIVAR

**Univar USA Inc.**  
**6100 Carillon Point**  
**Kirkland, WA 98033**  
**(425) 889-3400**

For Emergency Assistance involving chemicals call - CHEMTREC (800) 424-9300

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The Version Date for this MSDS is : 08/11/2004

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 PRODUCT IDENTIFICATION  
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PRODUCT NAME: CALCIUM NITRATE 15.5-0-0

MSDS#: 64911

DATE ISSUED: 01/01/2000

SUPERSEDES: NEW

ISSUED BY: 005363

## MATERIAL SAFETY DATA SHEET

### I. PRODUCT IDENTIFICATION

Trade Name (as Labeled): Viking Ship(R)(Calcium Nitrate 15.5-0-0  
 Manufacturer's Name: Norsk Hydro ASA c/o Hydro Agri North America, Inc.

Complete Mailing Address: 100 North Tampa Street, Suite 3200  
 Tampa, Florida 33602

Phone Number for Additional Information: 813-222-5700  
 or Chemtrec 24-hour Emergency Response: 1-800-424-9300

Flamm.

0

Health 1 0 React.

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NFPA/HMIS Hazard Signal

Date Prepared or Revised: 01/01/00 Name of Preparer: Bill Easterwood

### II. NON-HAZARDOUS INGREDIENTS

Chemical Names	CAS Numbers	Percent	Exposure Limits in Air (Give Units)
			ACGIH TLV OSHA PEL Other (Specify)
Hydrated Ammonium Calcium Nitrate Double Salt	15245-12-2		None listed.

Not a DOT regulated material. 49 CFR 172.102 Special Provision 34 specifically

removes the commercial grade calcium nitrate double salt (calcium nitrate and ammonium nitrate) from the Hazardous Materials Table 49 CFR 172.101.

NFPA and HMIS Rating: 1, 0, 0; Health, Flammability, Reactivity

NOTE: THIS PRODUCT IS NOT CLASSIFIED AS AN OXIDIZER, AND DOES NOT REQUIRE PLACARDING OR SPECIAL HANDLING.

### III. PHYSICAL PROPERTIES

Vapor Density (Air=1): Solid  
Melting Point or Range: 242 F  
Specific Gravity: 1.12 (68-70lb/ft<sup>3</sup>)  
Boiling Point or Range: N/A  
Solubility in Water: 76% (w/w)  
Evaporation Rate: N/A  
(Butyl Acetate=1)

Vapor Pressure, mm Hg at 20 C: Hygroscopic solid water vapor pressure = 0.068 lb/in<sup>2</sup> (68 F).

Appearance and Odor: White/off-white, granular solid, odorless.

### IV. FIRE AND EXPLOSION

Flash Point, F (Give Method): N/A  
Auto Ignition Temperature, F: N/A

Flammable Limits in Air, Volume %: N/A Lower (LEL): N/A Upper (UEL): N/A  
Fire Extinguishing Materials:

X Water Spray	Carbon Dioxide	Other
Foam	Dry Chemical	

#### Special Fire Fighting Procedures:

Self contained air supply to protect from oxides of nitrogen.  
Noxious fumes may form.

Unusual Fire and Explosion Hazards:  
Oxides of nitrogen.

### V. HEALTH HAZARD INFORMATION

#### SYMPTOMS OF OVEREXPOSURE - FOR EACH POTENTIAL ROUTE OF EXPOSURE

Inhaled: May cause mild nasal irritation.

#### Contact with Skin or Eyes:

May cause skin rash or sores particularly if skin is broken at point of contact with product. May cause mild eye irritation.

#### Absorbed through Skin:

Not known to be absorbed through the skin.

#### Swallowed:

Small Amounts: Weakness, general depression, headache, and mental impairment.  
Large Amounts: Dizziness, abdominal cramps, vomiting, bloody diarrhea, weakness, convulsions, and collapse.

#### HEALTH EFFECTS OR RISKS FROM EXPOSURE - EXPLAIN IN LAY TERMS

Acute: Small Amounts: Weakness, general depression, headache, and mental

impairment.

Large Amounts: Dizziness, abdominal cramps, vomiting, bloody diarrhea, weakness, convulsions, and collapse.

Chronic None known

FIRST AID - EMERGENCY PROCEDURES:

IN CASE OF DISCOMFORT DUE TO EXPOSURE, SEEK MEDICAL ATTENTION.

Eye Contact:

Flood immediately with clean water for 15 minutes.

Skin Contact:

Wash with copious amounts of soap and water.

Inhaled:

Move to fresh air.

Swallowed:

Delay absorption of ingested nitrates by giving water, milk or activated charcoal and then remove by gastric lavage or emesis. Maintain blood pressure.

SUSPECTED CANCER AGENT?

X	NO.	This product's ingredients are not found in the lists below.		
	YES.	Federal OSHA	NTP	IARC

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: None known.

VI. REACTIVITY DATA

Stability:	X	Stable	Unstable
Conditions to Avoid:	N/A		

Incompatibility: (Materials to Avoid)

In high pH (caustic) environments, material will release ammonia (NH3).

Hazardous Decomposition Products (Including Combustion Products):

Oxides of nitrogen may be produced in fires.

Hazardous Polymerization: May Occur X Will Not Occur

VII. SPILL, LEAK AND DISPOSAL PROCEDURES

Spill Response Procedures (Include Employee Protection Measures):

Contain spill. Sweep up and scoop into suitable container for use or recycle.

Preparing Wastes for Disposal:

Spread on arable land at standard agricultural rates. If (Container Types, Neutralization, contaminated, dispose in a properly designated landfill. etc.)

NOTE: DISPOSE OF ALL MATERIALS IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS.

VIII. SPECIAL HANDLING INFORMATION

Ventilation and Engineering Controls:

Adequate ventilation for dust control.

Respiratory Protection (Type):  
NIOSH approved dust respirator.

Eye Protection (Type):  
Safety goggles/glasses.

Gloves (Specify Material):  
Rubber gloves.

Other Clothing and Equipment:  
Clean coveralls and a long sleeved shirt.

Work and Hygienic Practices:  
Shower with soap and water. Wash clothing separately with laundry detergent.

Other Handling and Storage Requirements:  
Prevent eye contact, skin contact and oral ingestion.

Protective Measures During Maintenance of Contaminated Equipment:  
Same as handling and storage requirements.

WARNING: This product contains a chemical (or chemicals) known to the State of California to cause cancer and birth defects or other reproductive harm.

Customer Service  
1-800-23-HYDRO (1-800-234-9376) FAX (813-875-5735)  
100 North Tampa Street. Suite 3200. Tampa. Florida 33602

For Additional Information:  
Contact: MSDS Coordinator - Univar USA  
During business hours, Pacific Time - (425) 889-3400

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END OF MSDS