

PRODUCT INFORMATION SHEET

NOTE: THIS IS NOT A MATERIAL SAFETY DATA SHEET SINCE NONE IS REQUIRED FOR THIS PRODUCT. IT IS PROVIDED FOR EMPLOYEE INFORMATION ONLY.

I. PRODUCT IDENTIFICATION

TRADE NAME (as labeled): VIKING SHIP CALCIUM NITRATE 15.5-0-0

MANUFACTURER'S NAME: NORSK HYDRO A.S. C/O HYDRO AGRI NORTH AMERICA

Complete mailing address: 4511 North Himes Avenue, Suite 240
Tampa, FL 33614

Phone number for additional information: 813-879-6865
or Chemtrec 24-hour emergency response: 1-800-424-9300

Date prepared or revised: 2/22/93 * Name of preparer: Bill Easterwood

NFPA/HMIS Hazard Signal

Health	1	0	0	Flamm.	0	0	0	React.
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II. NON-HAZARDOUS INGREDIENTS

Chemical Names	CAS Numbers	*Percent	Exposure Limits in Air(give units)
Ammonium Calcium Nitrate Decahydrate	39368-85-9		ACGIH TLV OSHA PEL Other (specify) None Listed

Ammonium Calcium Nitrate Decahydrate has been tested in accordance with the procedures outlined in Appendix F of CFR Title 49, Part 173. It was found not to be an oxidizer. Copies of these test results are available on request.

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

NFPA & HMIS Rating: 1, 0, 0; HEALTH, FLAMMABILITY, REACTIVITY

III. PHYSICAL PROPERTIES

Vapor density (air=1): Solid Melting point or range: °F 242°F

Specific gravity: 1.12 (68-70#/FT³) Boiling point or range: °F Decomposes

Solubility in water: 76% (W/W) Evaporation rate: (butyl acetate=1)

Vapor pressure, mmHg at 20°C: Hygroscopic solid water vapor pressure = 0.068 lb/in² (68°F)

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

HOW TO DETECT THIS SUBSTANCE (warning properties of substance as a gas, vapor, dust or mist)

IV. FIRE AND EXPLOSION

Flash point, °F (give method): N/A
Ignition temperature, °F: N/A
Flammable limits in air, volume %: N/A Lower (LEL) N/A Upper (UEL) N/A
Fire extinguishing materials:
 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. Risk of nitrate toxicity from ingestion.

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

Chronic:

FIRST AID: EMERGENCY PROCEDURES

Eye contact: Flood with water at least 15 minutes.
Skin contact: Wash with copious amounts of soap and water.
Inhaled: N/A
Swallowed: Delay absorption of ingested nitrate by giving milk or activated charcoal, and then remove by gastric lavage or emesis. Maintain blood pressure.

SUSPECTED CANCER AGENT?

NO. This product's ingredients are not found in the lists below.
S: 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): None known

Hazardous decomposition products (including combustion products):

Hazardous polymerization: May occur X Will not occur

Conditions to avoid: None known

VII. SPILL, LEAK AND DISPOSAL PROCEDURES

Spill response procedures (include employee protection measures): Spread on
arable land away from drinking water.* Protect from ingestion by ruminants.

Handling wastes for disposal (container types, neutralization, etc.): Same
as above.

NOTE: Dispose of all wastes in accordance with federal, state and local
regulations.

VIII. SPECIAL HANDLING INFORMATION

Ventilation and engineering controls: Adequate to move dust.

Respiratory protection (type): Filter respirator in dusty atmosphere.

Eye protection (type): As necessary for dust.

Gloves (specify material): Rubber gloves.

Other clothing and equipment: Dust proof clothing.

Work practices, hygienic practices: Adequate personal hygiene.

Other handling and storage requirements: Normal dry bulk warehousing
practice. Protect from fire.

Protective measures during maintenance of contaminated equipment: Same as
procedures for normal handling of product.