

Material Safety Data Sheet

Effective Date: 20-MAR-2000
Product: NUCOL 5-11-2

I. IDENTIFICATION

Chemical Name: NOT APPLICABLE, FORMULATED MIXTURE
Chemical Family: INORGANIC LIQUID PLANT NUTRIENT
Formula: NOT APPLICABLE, FORMULATED MIXTURE
Synonyms: NONE
CAS Number: NOT APPLICABLE, FORMULATED MIXTURE
EPA Number: NONE REQUIRED

II. PHYSICAL DATA

Boiling Point: >100 DEGREES C.
Freezing Point: <35 DEGREES F.
Spec Gravity: 1.203 GMS/CC
Vapor Pressure: NOT ESTABLISHED
Vapor Density: NOT ESTABLISHED
Solubility: 99%
Volatiles: <0.5%
Evaporation: NOT ESTABLISHED
Melting Point: NOT APPLICABLE
Appearance: LIGHT/DARK ROSE LIQUID, LOW ODOR

III. INGREDIENTS

Material	CAS Number	Percent	TLV	Hazard
PROPRIETARY BLEND OF AMMONIUM POLYPHOSPHATES, POTASSIUM POLYPHOSPHATES, UREA, METAL EDTA CHELATES, HUMIC ACIDS AND NATURAL BUFFERING AGENTS		100.00	10 MG/M3	MILD SKIN & EYE IRRITANT

IV. FIRE AND EXPLOSION HAZARD

Flash Point: NON-COMBUSTIBLE
Autoignition Temp: NOT APPLICABLE
Flammable Limit: NOT APPLICABLE
Extinguishing Media: NON-COMBUSTIBLE PRODUCT. USE EXTINGUISHING MEDIA
FOR UNDERLYING CAUSE OF FIRE.
Special Fire Fight Proc: WEAR POSITIVE PRESSURE SELF-CONTAINED BREATHING
APPARATUS AND FULL PROTECTIVE CLOTHING. USE
WATER SPRAY TO KEEP FIRE-EXPOSED CONTAINERS
COOL.
Fire and Expl Hazard: PRODUCT GENERATES TOXIC AND IRRITATING FUMES
UNDER FIRE CONDITIONS.

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V. HEALTH HAZARD

Carcinogen Information: NONE CURRENTLY KNOWN.

ACUTE EFFECTS OF OVER EXPOSURE

Swallowing: RESULTS IN VOMITING AND ABDOMINAL CRAMPS.
Skin Absorption: MAY BE HARMFUL BY SKIN ABSORPTION.
Inhalation: INHALATION MAY CAUSE IRRITATION TO NOSE AND THROAT.
Skin contact: SKIN CONTACT MAY CAUSE IRRITATION.
Eye Contact: EYE CONTACT RESULTS IN SEVERE IRRITATION.
Chronic Effects: NONE CURRENTLY KNOWN.
Other Hazard: NONE CURRENTLY KNOWN.

EMERGENCY AND FIRST AID PROCEDURES

Swallowing: DILUTE BY DRINKING LARGE QUANTITIES OF WATER. IMMEDIATELY CALL A PHYSICIAN, POISON CONTROL CENTER OR HOSPITAL EMERGENCY ROOM FOR ANY OTHER TREATMENT DIRECTIONS.
Skin: REMOVE CONTAMINATED CLOTHING AND WASH SKIN WITH SOAP AND WATER. CALL A PHYSICIAN IF IRRITATION DEVELOPS OR PERSISTS.
Inhalation: MOVE TO FRESH AIR. GIVE ARTIFICIAL RESPIRATION IF NEEDED. IMMEDIATELY CALL A PHYSICIAN IF BREATHING BECOMES DIFFICULT.
Eyes: FLUSH EYES WITH WATER FOR 15 MINUTES, HOLDING EYELIDS OPEN. CALL A PHYSICIAN IF IRRITATION DEVELOPS OR PERSISTS.
Notes to Physician: IN THE EVENT OF AN ADVERSE RESPONSE, TREATMENT SHOULD BE DIRECTED TOWARD CONTROL OF THE SYMPTOMS AND THE CLINICAL CONDITION OF THE PATIENT.

VI. REACTIVITY

Stability: Stable
Conditions to Avoid: NONE CURRENTLY KNOWN
Polymerization: Will Not Occur
Conditions to Avoid: NONE CURRENTLY KNOWN.
Incompatibility material: PRODUCT MAY REACT VIGOROUSLY WITH ACIDIC MATERIALS.
Hazardous Combustion: MAY PRODUCE AMMONIA GAS AND OXIDES OF CARBON UNDER FIRE CONDITIONS.

Helena Chemical Company
PH: 901-761-0050
CHEMTREC: 800-424-9300

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VI. SPILL OR LEAK PROCEDURES

Spill or Leak Proc: CONTAIN SPILL. IF UNCONTAMINATED, RECOVER AND REUSE PRODUCT. IF CONTAMINATED, ABSORB MATERIAL AND PLACE IN CHEMICAL WASTE CONTAINERS FOR PROPER DISPOSAL.
Waste Disposal Method: THIS MATERIAL MUST BE DISPOSED OF ACCORDING TO FEDERAL, STATE, OR LOCAL PROCEDURES UNDER THE RESOURCE CONSERVATION AND RECOVERY ACT.

VIII. SPECIAL PROTECTION INFORMATION

Respiration: NONE NEEDED UNDER NORMAL CONDITIONS. UNDER FIRE CONDITIONS OR IF VAPORS EXCEED TLV, USE NIOSH/MSHA APPROVED RESPIRATOR.
Ventilation: LOCAL EXHAUST SUFFICIENT.
Gloves: IMPERVIOUS
Eyes: SPLASH PROOF GOGGLES.
Other: EMERGENCY SHOWER, EYE WASH STATION, IMPERVIOUS APRON AND FOOTWEAR.

IX. SPECIAL PRECAUTIONS

Special precaution: KEEP OUT OF REACH OF CHILDREN. DO NOT STORE WITH FOOD, FEED, OR OTHER MATERIAL TO BE USED OR CONSUMED BY HUMANS OR ANIMALS. DO NOT CONTAMINATE WATER SUPPLIES, LAKES, STREAMS, OR PONDS. PROTECT AGAINST PHYSICAL DAMAGE. KEEP SEPARATE FROM OXIDIZING AND ACIDIC MATERIALS.
Other precaution: NONE CURRENTLY NEEDED.

X. SHIPPING INFORMATION

Shipping name: NOT REGULATED BY DOT, IATA, OR IMO
Hazard Class: NONE
Identification No: NONE
Labels Required: NONE
Placarding: NONE
Freight Class: COMPOUND, FERTILIZER (MANUFACTURED FERTILIZER) LIQUID, NOIBN(NMFC 68140, SUB 6, CLASS 70)

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Chemical Name	Equivalent R.Q.
NOT APPLICABLE	NOT APPLICABLE

XI. GENERAL PRODUCT INFORMATION

National Fire Protection Association Rating:
(Rating level: 4-Extreme, 3-High, 2-Moderate, 1-Slight, 0-Minimum)

Health: 2 Fire: 0 Reactivity: 0

S.A.R.A. Title III Hazard Classification: (Yes/No)

Immediate (Acute) Health: Y	Delayed (Chronic) Health: N
Sudden Release of pressure: N	Fire: N
Reactive: N	

Mail inquiries to: 225 Schilling Blvd., Suite 300 Collierville, TN 38017
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