

Material Safety Data Sheet

Effective Date: 02-JAN-2003

Product: MEISTER 14-14-14, 3-4 MONTH FERTILIZER

I. IDENTIFICATION

Chemical Name: FORMULATED MIXTURE
Chemical Family: INORGANIC FERTILIZER
Formula: FORMULATED MIXTURE
Synonyms: NONE
CAS Number: FORMULATED MIXTURE
EPA Number: NONE REQUIRED

II. PHYSICAL DATA

Boiling Point: NOT APPLICABLE
Freezing Point: NOT APPLICABLE
Spec Gravity: 0.70-0.80 GMS/CC.
Vapor Pressure: NOT APPLICABLE
Vapor Density: NOT APPLICABLE
Solubility: NOT APPLICABLE
Volatiles: NOT APPLICABLE
Evaporation: NA
Melting Point: >130 DEGREES C.
Appearance: GRANULAR SOLID NO DETECTABLE ODOR.

III. INGREDIENTS

Material	CAS Number	Percent	TLV	Hazard
NITROGEN (N)		14.00	10 MG/M3	SKIN & EYE IRRITANT
PHOSPHATE (P2O5)		14.00	15 MG/M3	SKIN & EYE IRRITANT
SOLUBLE POTASH (K2O)		14.00	15 MG/M3	SKIN & EYE IRRITANT
MICRONUTRIENTS: SULFUR (4.20%), MAGNESIUM (1.29%), MOLYBDENUM (0.003%), COPPER (0.12%), IRON (1.00%), MANGANESE (0.30%), AND ZINC (0.28%)				

IV. FIRE AND EXPLOSION HAZARD

Flash Point: NOT APPLICABLE
Autoignition Temp: NOT APPLICABLE
Flammable Limit: NOT APPLICABLE
Extinguishing Media: NON-COMBUSTIBLE SOLID - USE EXTINGUISHING MEDIA

Material Safety Data Sheet

Effective Date: 02-JAN-2003

Product: MEISTER 14-14-14, 3-4 MONTH FERTILIZER

Special Fire Fight Proc: FOR UNDERLYING CAUSE OF FIRE.
USE POSITIVE PRESSURE SELF-CONTAINED BREATHING APPARATUS WITH FULL PROTECTIVE CLOTHING.
Fire and Expl Hazard: DECOMPOSES AT ELEVATED TEMPERATURES TO PRODUCE TOXICS FUMES OF AMMONIA AND SULFUR OXIDES.

V. HEALTH HAZARD

Carcinogen Information: NONE CURRENTLY KNOWN.

ACUTE EFFECTS OF OVER EXPOSURE

Swallowing: IF SWALLOWED. IRRITATION MAY DEVELOP IN THE MOUTH, ESOPHAGUS, STOMACH, ETC.
Skin Absorption: NOT ABSORBED BY SKIN.
Inhalation: DUST INHALATION MAY IRRITATE NOSE, THROAT, AND LUNGS.
Skin contact: IRRITATION MAY RESULT FROM PROLONGED SKIN CONTACT.
Eye Contact: CONTACT WITH DUST OR MIST CAN CAUSE EYE IRRITATION.
Chronic Effects: NONE CURRENTLY KNOWN.
Other Hazard: NONE CURRENTLY KNOWN.

EMERGENCY AND FIRST AID PROCEDURES

Swallowing: IF CONSCIOUS, DRINK 2 TO 4 GLASSES OF WATER AND INDUCE VOMITING BY TOUCHING BACK OF THROAT WITH FINGER.
Skin: WASH PROMPTLY WITH SOAP AND WATER. REMOVE ANY CONTAMINATED CLOTHING AND WASH BEFORE REUSE.
Inhalation: MOVE TO FRESH AIR. IF BREATHING IS DIFFICULT, OBTAIN MEDICAL ATTENTION IMMEDIATELY.
Eyes: FLUSH EYES WITH WATER FOR 15 MINUTES, HOLDING EYELIDS OPEN. IF IRRITATION DEVELOPS, CONSULT A PHYSICIAN.
Notes to Physician: IN THE EVENT OF AN ADVERSE RESPONSE, TREATMENT SHOULD BE DIRECTED TOWARD CONTROL OF THE SYMPTOMS.

VI. REACTIVITY

Stability: Stable
Conditions to Avoid: EXCESSIVE HEAT.
Polymerization: Will Not Occur
Conditions to Avoid: NONE CURRENTLY KNOWN.
Incompatibility material: ALDEHYDES, ACIDS, CAUSTICS AND OXIDIZING AGENTS.

Material Safety Data Sheet

Effective Date: 02-JAN-2003

Product: MEISTER 14-14-14, 3-4 MONTH FERTILIZER

Hazardous Combustion: AMMONIA AND SULFUR TRIOXIDE AND SULFUR DIOXIDE
GASES UNDER FIRE CONDITIONS.

VII. SPILL OR LEAK PROCEDURES

Spill or Leak Proc: SHOVEL UP LARGE SPILLS. SWEEP UP SMALL SPILLS.
IF NOT CONTAMINATED REUSE. IF CONTAMINATED
PLACE IN RECOVER DRUMS 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: WHERE DUSTY OR MISTY CONDITIONS REQUIRE IT, USE
A NIOSH-APPROVED DUST OR MIST RESPIRATOR FOR
NEEDED PROTECTION.
Ventilation: LOCAL EXHAUST NORMALLY SUFFICIENT.
Gloves: IMPERVIOUS
Eyes: CHEMICAL WORKERS GOGGLES.
Other: 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. STORE
IN COOL, DRY PLACE. SEPERATE FROM COMBUSTIBLE,
ORGANIC OR OTHER READILY OXIDIZABLE MATERIALS.
IMMEDIATELY REMOVE AND DISPOSED OF ANY SPILLED
MATERIAL.
Other precaution: AVOID CONTACT WITH EYES, SKIN AND
CLOTHING. AVOID BREATHING DUST.
KEEP CONTAINERS CLOSE AND AVOID ROUGH HANDLING.
FOLLOW GOOD PERSONAL
HYGIENE AND HOUSEKEEPING PRACTICES.

X. SHIPPING INFORMATION

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

19-MAY-2003 13:41:13
Page 4 Of 4

Material Safety Data Sheet

Effective Date: 02-JAN-2003

Product: MEISTER 14-14-14, 3-4 MONTH FERTILIZER

Shipping name: NOT REGULATED BY DOT
Hazard Class: NONE
Identification No: NONE
Labels Required: NONE
Placarding: NONE
Freight Class: COMPOUND, FERTILIZER, (MANUFACTURED
FERTILIZER), DRY, NOIBN

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: 1 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
Helena Chemical Company believes that the data contained herein is factual.
This data is not to be taken as a warranty or representation of legal
responsibility. It is offered solely for your consideration, investigation
and verification.