



MATERIAL SAFETY DATA SHEET #1015

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SUPERSEDES: 11/29/00

I. PRODUCT IDENTIFICATION

PRODUCT NAME: LESCO Granular Fertilizer-All Analyses
Chemical Family: Fertilizer Mixture
Chemical Name/Synonyms: Granular fertilizers including all chemical, partially sulfur coated, 100% sulfur coated nutrients, with and without micronutrients.

II. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME	%(by/wt.)	CAS #	PEL/TLV
Formulated with one or more of the following ingredients. Check specific product label.			
Urea	0-98	57-13-6	10 mg/M ³ (dust) 5 mg/M ³ (resp)
Potassium Chloride	0 - 95	7447-40-7	10 mg/M ³
Potassium Sulfate	0 - 95	7778-80-5	10 mg/M ³
Monoammonium Phosphate	0 - 95	7722-76-1	15 mg/M ³ (dust) 5 mg/M ³ TLV
Diammonium Phosphate	0 - 95	7783-28-0	15 mg/M ³ (dust) 5 mg/M ³ (resp)
Ammonium Sulfate	0 - 95	7783-20-2	15 mg/M ³ (dust)
Calcium Carbonate	0 - 95	1317-65-3	15 mg/M ³ (dust)
Sulfur	0 - 20	7704-34-9	5 ppm (SO ₂)
Iron (Ferric) Oxide	0 - 10	1309-37-1	15 mg/M ³ (dust)
Iron (Ferrous) Sulfate	0 - 10	7720-78-7	15 mg/M ³ (dust)
Manganese Oxide	0 - 10	1317-35-7	15 mg/M ³ (dust)
Magnesium Sulfate	0 - 10	7487-88-9	15 mg/M ³ (dust)
Methylene Urea	0 - 10	9011-05-6	ND
Sulfate of Potash-Magnesia	0 - 10	14977-37-8	15 mg/ M ³ (dust) 5 mg/ M ³ (resp)
Quartz	0 - 0.5	14808-60-7	10 mg/ M ³ / SiO ₂ +2 (resp)
Biosolids	0 - 10	ND	NE

TLV of all chemicals and mixtures is 15 mg/M³; TWA is 10 mg/M³; Respirable dust TLV of 5 mg/M³, unless otherwise indicated.

III. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Primary Route(s) of Entry: Eyes, Skin, Inhalation, Ingestion
POTENTIAL HEALTH EFFECTS: May cause irritation to skin and eyes. Ingestion of large amounts may cause gastrointestinal disorder, nausea, vomiting and/or diarrhea.
EYE: May cause irritation and possible mechanical injury. Contact may irritate or burn eyes. Prolonged eye exposure may cause conjunctivitis and corneal damage. Avoid contact with eyes.
SKIN: Irritating to skin. Prolonged or repeated contact may result in defatting, drying and dermatitis. Avoid contact with skin.
INHALATION: Prolonged inhalation may be harmful. Irritating to respiratory system.
INGESTION: Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.
MEDICAL CONDITIONS AGGRAVATED: None known
POTENTIAL ENVIRONMENTAL HAZARDS: No data

IV. FIRST AID MEASURES

EYES: Hold eye open and rinse slowly and gently with water for 15 - 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

SKIN: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 – 20 minutes. Call a poison control center or doctor for treatment advice.

INHALATION: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.

INGESTION: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

NOTES TO MEDICAL DOCTOR: Treat symptomatically.

V. FIRE FIGHTING MEASURES

Flash Point (Method Used): NA
Lower Explosion Limits: NA

Auto Ignition Temperature: NA
Upper Explosion Limits: NA

NFPA/HMIS Rating: Health: 1
EXTINGUISHING MEDIA:

Fire: 0

Reactivity: 0

Large Fires:

Foam Alcohol Foam CO₂ Dry Chemical Water Spray
 Other

Small Fires:

Foam Alcohol Foam CO₂ Dry Chemical Water Spray
 Other

UNUSUAL FIRE AND EXPLOSION HAZARDS: If heated to decomposition, will give off toxic fumes of ammonia and formaldehyde; also oxides of sulfur, manganese, magnesium, iron, potassium and phosphorus. Under fire conditions, urea may decompose to cyanuric acid, biuret or ammonia.

FIRE FIGHTING PROCEDURES: Use self-contained breathing apparatus and protective clothing. Do not allow contamination of any water supply.

HAZARDOUS COMBUSTION PRODUCTS: Fire conditions may emit toxic fumes.

VI. ACCIDENTAL RELEASE MEASURES

RELEASE NOTES: If material is spilled and not contaminated, scoop into clean container for use. If contaminated, scoop into containers for disposal.

VII. HANDLING AND STORAGE

GENERAL PROCEDURES: Store in a dry area, away from feed, foodstuffs and away from drains, sewers, and water sources. Keep in a secure area inaccessible to children and unauthorized persons. Keep containers closed. Avoid contact with eyes and skin. Wash hands with soap and water after handling.

OTHER PRECAUTIONS: Avoid breathing dust.

VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: Ensure adequate ventilation.

PERSONAL PROTECTION EQUIPMENT:

EYES AND FACE: Protective goggles or Safety glasses may be worn

RESPIRATORY: None needed in outdoor application

GLOVES: Rubber gloves may be used.

PROTECTIVE CLOTHING: None required in outdoor application

WORK HYGIENIC PRACTICES: Wash hands with soap and water after handling.

COMMENTS: Eyewash stations should be readily accessible.

IX. PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT: NA
MELTING POINT: NA
VAPOR DENSITY (air = 1): NA
ODOR: NA

SPECIFIC GRAVITY: NA
EVAPORATION RATE: NA
VAPOR PRESSURE: NA
SOLUBILITY IN WATER: Moderately

APPEARANCE: Multi-colored granules
pH: NE

PERCENT VOLATILE: NA
BULK DENSITY (lbs./cu ft): 45 – 65 lbs

X. STABILITY AND REACTIVITY

CONDITIONS TO AVOID: None known
STABILITY: Stable
POLYMERIZATION: Will not occur
INCOMPATIBLE MATERIALS: Strong acids, caustic compounds, humid-wet conditions
HAZARDOUS DECOMPOSITION PRODUCTS: If heated to decomposition, will give off toxic fumes of ammonia and formaldehyde; also oxides of sulfur, manganese, magnesium, iron, potassium and phosphorus. Under fire conditions, urea may decompose to cyanuric acid, biuret or ammonia

XI. TOXICOLOGICAL INFORMATION

EYE EFFECTS: No data
SKIN EFFECTS: No data
DERMAL LC₅₀: No data
ORAL LD₅₀: No data
INHALATION LC₅₀: No data
SENSITIZATION: No data
ACUTE EFFECTS FROM OVEREXPOSURE: May cause irritation to skin and eyes. Ingestion of large amounts may cause gastrointestinal disorder, nausea, vomiting and/or diarrhea
CHRONIC EFFECTS FROM OVEREXPOSURE: Prolonged eye exposure may cause conjunctivitis and corneal damage. Prolonged skin contact may defat the skin and produce dermatitis.
CARCINOGENICITY: Silica, crystalline quartz (Calcium Carbonate products may contain Crystalline Silica at levels between 0.01% and 0.5% and varies naturally)
IARC: Silica, crystalline quartz
NTP: Silica, crystalline quartz
OSHA: Not listed
OTHER: CA Prop 65 – WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

XII. ECOLOGICAL INFORMATION

ENVIRONMENTAL DATA: No Data
ECOTOXICOLOGICAL INFORMATION: No Data

XIII. DISPOSAL CONSIDERATIONS

DISPOSAL METHODS: Dispose in accordance with all applicable regulations.
Product: If contaminated, scoop into containers for disposal.
Container: Empty bags may be incinerated under controlled conditions at an approved incinerator.

XIV. TRANSPORTATION INFORMATION:

DOT Transportation:	Marine Pollutant #1:
Not DOT Regulated	NA
Proper Shipping Name:	HM 181 Shipping Name:
NA	NA
Hazard Class:	ID NO.:
NA	NA
U.S. Surface Freight Class:	Reportable Quantity (RQ):
NA	NA

XV. REGULATORY INFORMATION – UNITED STATES

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT):
SEC 311/312:
Y Immediate (Acute Health)



**MATERIAL SAFETY
DATA SHEET #1015**

Page 4 of 4

- Y Delayed (Chronic Health)
- X Fire
- X Sudden Release of Pressure
- X Reactivity

SEC 302 (Extremely Hazardous Substance): NA

SEC 304 (Emergency Release Notification): NA

SEC 313 (Toxic Chemicals): NA

CERCLA RQ: NA

CAA RQ: NA

EPA Registration No.: NA

NOTE: NA=Not Applicable; ND=Not Determined; NE=Not Established

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