



Lilly Miller Multicote
14-14-16

MATERIAL SAFETY DATA SHEET

Date Issued: May 19, 2002

SECTION I - PRODUCT IDENTIFICATION

Product trade name: Multicote (coated NPK)
Hazard rating:
Health: Moderate
Flammability: None
Reactivity: Low
Components:
mono ammonium phosphate: (CAS no. 7722-76-1)
potassium nitrate: (CAS no. 7757-79-1)
ammonium nitrate: (CAS no. 6484-52-2)
potassium sulfate: (CAS no. 7778-80-5)

SECTION II - HAZARDOUS INGREDIENTS

Ammonium nitrate (CAS No. 6484-52-2) 3.8%
Potassium nitrate (CAS No. 7757-79-1) 29%

SECTION III - PHYSICAL DATA

Appearance: Yellow-brown granules
Decomposition temp.: NPK >130°C
coating >200°C
Melting point: decomposes
Bulk density: approx. 1.0 kg/liter
Boiling point: decomposes
Vapor pressure (mm Hg): Below 1
Evaporation rate: N/A
Solubility in water: Dissolves
very
slowly;
polymer
coating
insoluble
pH (of saturated water solution after 72 hours): 6.0-8.0

Distributed by:
Lilly Miller Brands
PO Box 2289
Clackamas, OR 97015
Tel: (503) 451-4451, (866) 866-0301
Fax: (503) 451-4455

SECTION IV - HEALTH HAZARD INFORMATION

Entry route:
Inhalation: N/A
Ingesting: N/A
Skin: N/A
Health hazards (acute & chronic):
Oral ingestion: Moderate toxicity.
Acute LD50: Unknown
Eye contact: N/A
Skin contact: Non-hazardous
Skin adsorption: N/A
Inhalation: N/A
Carcinogenicity: NTP: Negative
IARC Nonographs: Negative
OSHA Regulated: Negative
Signs and symptoms of exposure: None
Medical conditions generally aggravated by exposure: None known

Emergency and first aid procedures:

Oral ingestion: Give large quantities of water and induce vomiting.
Seek medical attention.
Eye contact: Flush immediately and continuously with flowing water for at least 30 minutes. Seek medical consultation if irritation persists.
Skin contact: Wash with soap and.
Inhalation: N/A.

SECTION V - FIRE AND EXPLOSION HAZARD DATA

Flash point (method used): Above 150°C, TCC
Extinguishing media: Non-flammable
Special fire-fighting procedure: Self contained air supply to protect from nitrogen oxides, ammonia and CN gas
Unusual fire and explosion hazards: Noxious fumes may form. Nitrogen oxides, ammonia and CN gas.
Flammable limits: LEL - N/A ; UEL - N/A

SECTION VI - REACTIVITY DATA

Stability: Stable in normal use and storage
Incompatibility: NaNO₂, P₂Cl₅, nitroaryl perchlorate
Hazard polymerization: Will not occur.
Conditions to avoid: Fire
Decomposition by-products: Nitrogen oxides and CN gas

SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to be taken in case material is released or spilled: Contain material. Pick up material and store in plastic bags, away from combustibles.
Waste disposal method: Dispose of in an approved landfill in accordance state, federal and local regulations.
Precautions to be taken in handling and storage: Keep out of reach of children.
Other precautions: Avoid breathing dusts.

SECTION VIII - CONTROL MEASURES

Respiratory protection: None normally needed.
Use dust mask if conditions warrant.
Ventilation: Recommended to control dust.
Protective gloves: Not necessary.
Eye protection: Not necessary.
Other protective clothing or equipment: Not necessary.



Haifa Chemicals Ltd.
P.O. Box 10809, Haifa Bay 26120, Israel.
Tel: 972-4-8469616 Fax: 972-4-8469953
E-mail: specialty@haifachem.co.il
www.haifachem.com