

T&N, Incorporated

Professional Turf and Ice Melt Products

815 Highway T • P.O. Box 240 • Foristell, MO 63348-0240
Local (636) 673-2505 • Toll Free (866) 670-2505 • Fax (636) 673-2750
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MATERIAL SAFETY DATA SHEET

PRODUCT **Milorganite**

PRODUCT CODE MILOR
DATE PREPARED October 2006

DISTRIBUTOR

T and N, Inc.
815 Hwy. T - P.O. Box 240
Foristell, MO 63348

PRODUCT IDENTIFICATION

COMMON NAME Natural Organic Fertilizer

INGREDIENTS

MATERIAL	PERCENT BY WATER	EXPOSURE LIMITS			
		Total Dust		Respirable Fraction	
		PEL	TLV	PEL	TLV
Organic solids from activated sewage sludge	95 - 97%	15 mg/m ³	10 mg/m ³	5 mg/m ³	_____
Water	Balance				

Trace metals and volatile organics can be detected in the finished product in quantities less than 1.0%, most less 0.1%.

PRECAUTIONARY STATEMENT FOR BULK STORAGE

May form explosive dust-air mixtures

HEALTH EFFECTS INFORMATION

PRIMARY ROUTES OF ENTRY

Inhalation, ingestion, skin or eye contact.

SIGNS AND SYMPTOMS OF OVEREXPOSURE

INHALATION

May cause nasal and throat irritation

SKIN ABSORPTION

Skin absorption is not likely

EYE CONTACT

May cause irritation

INGESTION

Not an expected route of exposure during customary and reasonably foreseeable use.

SKIN CONTACT

May cause skin irritation

HEALTH CONDITIONS WHICH MAY BE AGGRAVATED BY EXPOSURE

Individuals with respiratory ailments, such as asthma, may be particularly sensitive to dust exposure. Product may contain sensitizers in quantities below 1.0%.

CARCINOGENS

This product may contain substances considered to be carcinogens by OSHA, IARC and NTP, but they would not be present in quantities greater than 0.1%.

FIRST AID AND EMERGENCY CARE

EYE CONTACT

Flush eyes with clean water continuously for at least 15 minutes. Remove contact lenses and lift eyelids while flushing. Obtain medical attention if pain or redness persists after flushing is completed.

SKIN CONTACT

Wash skin thoroughly with soap and water.

INHALATION

If breathing difficulty should occur, remove from the area to fresh air and obtain medical attention if symptoms of illness appear or breathing difficulty continues.

INGESTION

Milorganite

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ENGINEERING CONTROLS - VENTILATION

Efforts must be made to maintain dust levels below the exposure limit.

BAGGED QUANTITIES

General ventilation should be sufficient.

BULK QUANTITIES

Additional ventilation may be required. Air monitoring should be performed during typical work practices to determine average exposure levels. When these exceed the permissible limits, additional engineering controls must be implemented and respiratory protection is required.

WORK PRACTICE CONTROLS

Good housekeeping procedures should be maintained to minimize dust accumulation on indoor surfaces. Good personal hygiene practices should be followed.

Workers should be advised to empty containers in a manner which minimizes their exposure, e.g., do not vigorously shake the bag as it is being emptied.

When emptying packages or containers outdoors, common sense should be used to empty the containers where wind conditions will not increase exposure.

RESPIRATORY PROTECTION

A NIOSH approved respirator equipped with a HEPA dust filter should be used whenever dust levels cause symptoms of irritation or sensitivity. Whenever respiratory protection is worn, a complete respiratory protection program should be implemented in accordance with OSHA General Industry Standard 29CFR1910.134.

EYE PROTECTION

Safety glasses should be used to prevent dust exposure. Tight fitting goggles may be needed to ensure greater protection. Individuals with contact lenses may need to wear goggles to prevent dust irritation.

SKIN PROTECTION

Special equipment is not required. Clean body-covering clothing should be worn.

SPECIAL STORAGE AND HANDLING PROCEDURES

Use according to label instructions.

Consult local fire codes or insurance carrier for information on storage of bulk quantities.

ENVIRONMENTAL INFORMATION

This product is comprised of treated, processed and stabilized biosolids and, as such, its composition is closely regulated by EPA under the Water Quality Act of 1987 and by state laws governing fertilizer components.

Constituents must be closely monitored and strict limitations have been placed on the quantity of metals and other substances that may be found in the product.

When applied to land in accordance with the guidelines of accepted agronomic practices, there are no known adverse effects on plants, animals or aquatic life. Entry into surface water systems should be avoided since the nutrient content of this product will increase growth rates of affected plant populations.

REGULATORY INFORMATION

OSHA HAZARD COMMUNICATION STANDARD 29CFR 1910.1200:

Considered nuisance dust. Product analysis identifies the average percentage (by weight) of individual metals and other contaminants to be less than 1.0%, most less than 0.1%.

SUPERFUND AMENDMENT AND REAUTHORIZATION ACT OF (SARA):

Section 302, Section 313: May contain substances that are listed in Sections 302 and 313 but they would not be present in quantities greater than 1.0% and it is unlikely that product use would reach the reportable thresholds.

Section 311 - 312: Product is classified as a nuisance dust which, as an irritant, could be a potential acute and chronic health hazard.

Individual states may have specific requirements for worker or community right-to-know that differ from the federal requirements. If additional information is needed, call the number listed on page 1.

TOXIC SUBSTANCES CONTROL ACT (TSCA):

The chemical ingredients in this product are on the 8(b) Inventory List (40 CFR 710) in quantities less than 1.0%.

