



CHEMICAL & FERTILIZER CORPORATION

MATERIAL SAFETY DATA SHEET

IDENTITY

MICROPLEX_a

Section I

Manufacturer's Name MILLER CHEMICAL & FERTILIZER CORP.	Emergency Telephone Number CHEMTREC: 1-800-424-9300 717-632-8921
Address P.O. BOX 333, 120 RADIO ROAD HANOVER, PA 17331 U.S.A.	Telephone Number for Information 717-632-8921 FAX: 717-632-4581
	Date Prepared 1/1/01

Section II - Hazardous Ingredients/Identity Information

NAME	CAS #	OSHA PEL	ACGIH TLV	OTHER LIMITS RECOMMENDED
NITRILLOTRIACETIC ACID	139-13-9	ND	ND	NE
NUISANCE PARTICULATE	NA	15mg/m3	10mg/m3	NE

Recommended NFPA Rating: HEALTH: NE FIRE: NE REACTIVITY: NE
THE NFPA RATING HAS NOT BEEN ESTABLISHED FOR THIS PRODUCT

Recommended HMIS Rating: HEALTH: 1 FIRE: 1 REACTIVITY: 0

PA Right-to-Know: This product contains proprietary ingredients.

This product contains the following chemical(s) subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR part 372 (the corresponding CAS number and typical percent by weights are also provided).

MANGANESE AS EDTA CHELATED SALT	4%
COPPER AS EDTA CHELATED SALT	1.50%
ZINC AS EDTA CHELATED SALT	1.50%
COBALT AS EDTA CHELATED SALT	0.05%
NITRILLOTRIACETIC ACID CAS# 139-13-9	<0.5%

Section III - Physical/Chemical Characteristics

Boiling Point	NA	Specific Gravity (H20=1)	NA
Vapor Pressure (mm Hg @ 25c)	ND	Melting Point	ND
Vapor Density (AIR=1)	ND	Evaporation Rate (Butyl Acetate=1)	NA
Solubility in Water	SOLUBLE		
Appearance and Odor	GREEN GRANULES, SLIGHT TO MODERATE ODOR		

Section IV - Fire and Explosion Hazard Data

Flash Point	NA	Flammable Limits	NA	LEL	NA	UEL	NA
Extinguishing Media	WATER SPRAY OR FOG						
Special Fire Fighting Procedures	DO NOT USE DIRECT STREAM OF WATER (WATER JET). USE SUPPLIED AIR BREATHING APPARATUS EQUIPMENT.						
Unusual Fire and Explosion Hazards	EVACUATE PEOPLE DOWNWIND FROM FIRE. CONTROL RUNOFF WATER. COMBUSTION PRODUCTS MAY BE TOXIC OR IRRITATING						

Section V - Reactivity Data

Stability	Unstable		Conditions to Avoid	EXCESSIVE HEAT, SOURCES OF IGNITION, WET AND HUMID CONDITIONS
	Stable	X		
Incompatibility(materials to avoid)	STRONG OXIDIZERS AND ALKALINES			
Hazardous Decomposition or Byproducts	OXIDES OF CARBON AND NITROGEN UNDER FIRE CONDITIONS			
Hazardous Polymerization	May Occur		Conditions to Avoid	NONE KNOWN
	Will Not Occur	X		

Section VI - Health Hazard Data				
Route(s) of Entry:	Inhalation?	YES	Skin?	YES
	Ingestion?	YES		
Health Hazards (Acute and Chronic) BY ANALOGY TO SIMILAR MATERIALS, THE EXPECTED				
ACUTE ORAL LD50(RAT):>2000 mg/kg, ACUTE DERMAL/INHALATION HAS NOT BEEN ESTABLISHED.				
THIS PRODUCT CONTAINS NITRILLOTRIACETIC ACID AND IT'S SALTS. NITRILLOTRIACETIC ACID IS LISTED BY IARC AS A POSSIBLE HUMAN CARCINOGEN(GROUP 2B).				
CHRONIC: NO DATA AVAILABLE				
Carcinogenicity:	NTP?	NO	IARC Monographs?	SEE ABOVE
			OSHA Regulated?	YES
Signs and Symptoms of Exposure EYE CONTACT MAY PRODUCE SLIGHT IRRITATION AND/OR REDNESS.				
INHALED DUST MAY CAUSE SOME RESPIRATORY IRRITATION.				
Medical Conditions Generally NONE KNOWN				
Aggravated by Exposure				
Emergency and First Aid Procedures				
INGESTION: CONSULT A PHYSICIAN. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.				
EYES: IRRIGATE WITH WATER FOR AT LEAST 15 MINUTES, SEEK MEDICAL ATTENTION.				
SKIN: REMOVE ANY CONTAMINATED CLOTHING AND WASH SKIN WITH SOAP AND WATER.				
INHALATION: REMOVE VICTIM TO FRESH AIR, CALL A PHYSICIAN				
Section VII - Precautions for Safe Handling and Use				
Steps to be Taken in Case Material is Released or Spilled ELIMINATE ALL SOURCES OF IGNITION. SWEEP UP AND COLLECT DRY PRODUCT. WATER WASH AREA TO WASTE TREATMENT.				
Waste Disposal Method DISPOSE OF WASTE AND WASTE CONTAINERS IN ACCORDANCE WITH LOCAL/STATE/FEDERAL REGULATIONS.				
Precautions to be Taken in Handling and Storing KEEP CONTAINERS CLOSED AND PROPERLY LABELED WHEN NOT IN USE. STORE IN COOL DRY LOCATIONS. DO NOT CONTAMINATE WATER, FOOD, FEED BY STORAGE OR DISPOSAL. FOLLOW GOOD INDUSTRIAL HYGIENE PRACTICES. STORE BETWEEN 40.5 F AND 120.5 F.				
Other Precautions KEEP FROM CHILDREN AND ANIMALS. AFTER WORKING WITH THIS PRODUCT, THOROUGHLY CLEAN EQUIPMENT. WASH THOROUGHLY, CHANGE CLOTHING, AND CLEAN PROTECTIVE GEAR. DO NOT REUSE CONTAINERS.				
Section VIII - Control Measures				
Respiratory Protection A RESPIRATOR APPROVED BY NIOSH/MSHA SHOULD BE WORN WHERE DUST INHALATION COULD OCCUR.				
Ventilation	Local Exhaust	NA	Special	NA
	Mechanical	PREFERRED	Other	NA
Protective Gloves	CHEMICAL RESISTANT (e.g. rubber)		Eye protection	CHEMICAL SPLASH GOGGLES
Other Protective Clothing or Equipment CHEMICAL RESISTANT APRON, CLEAN BODY-COVERING CLOTHING, BOOTS, HAT				
Work/Hygienic Practices PREVENT EATING, DRINKING, TOBACCO USAGE AND COSMETIC APPLICATION TO PREVENT EXPOSURE.				
<p>THE SUBMISSION OF THIS MSDS MAY BE REQUIRED BY LAW BUT THIS IS NOT AN ASSERTION THAT THIS SUBSTANCE IS HAZARDOUS WHEN USED IN ACCORDANCE WITH PROPER SAFETY PRACTICES AND NORMAL HANDLING PROCEDURES.</p> <p><u>THE INFORMATION HEREIN IS GIVEN IN GOOD FAITH, BUT NO WARRANTY, EXPRESSED OR IMPLIED, IS MADE.</u></p>				