



CHEMICAL & FERTILIZER CORPORATION

MATERIAL SAFETY DATA SHEET

IDENTITY

CALEXIN®

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 1/1/2005

Section II - Hazardous Ingredients/Identity Information

NAME	CAS #	OSHA PEL	ACGIH TLV	OTHER LIMITS RECOMMENDED
THIS PRODUCT HAS BEEN TESTED AS A WHOLE TO DETERMINE IT'S HAZARDS	NA	ND	ND	245mg/m3

Recommended NFPA Rating: HEALTH: NE FIRE: NE REACTIVITY: NE

THE NFPA RATING HAS NOT BEEN ESTABLISHED FOR THIS PRODUCT

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).

NONE

Section III - Physical/Chemical Characteristics

Boiling Point	>212 F	Specific Gravity (H2O=1)	1.06-1.08 @ 20c
Vapor Pressure (mm Hg @ 25c)	<1	Melting Point	No data available
Vapor Density (AIR=1)	>1	Evaporation Rate (Butyl Acetate=1)	ND
Solubility in Water	SOLUBLE	pH @ 20c	2.2 to 4
Appearance and Odor	CLEAR TO YELLOW AND HAZY LIQUID: MODERATE ODOR		

Section IV - Fire and Explosion Hazard Data

Flash Point	non flammable	Flammable Limits	ND	LEL	ND	UEL	ND
Extinguishing Media	FOAM, CARBON DIOXIDE, DRY CHEMICAL, WATERSPRAY OR SAND/EARTH						
Special Fire Fighting Procedures	USE WATER SPRAY TO KEEP FIRE-EXPOSED CONTAINERS COOL. USE SUPPLIED AIR BREATHING APPARATUS EQUIPMENT. USE WATER SPRAY TO DISPERSE VAPORS.						
Unusual Fire and Explosion Hazards	EVACUATE PEOPLE DOWNWIND FROM FIRE. CONTROL RUNOFF WATER. CONTAINERS MAY BURST FROM INTERNAL PRESSURE IF EXPOSED TO FIRE						

NA - Not Available or Not Applicable

ND - Not Determined

Section V - Reactivity Data				
Stability	Unstable		Conditions to Avoid EXCESSIVE HEAT AND COLD, SOURCES OF IGNITION	
	Stable	X		
Incompatibility(materials to avoid)		STRONG OXIDIZERS		
Hazardous Decomposition or Byproducts		OXIDES OF CARBON 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)		ORAL TOXICITY: NO DATA AVAILABLE		
DERMAL TOXICITY: NO DATA AVAILABLE		INHALATION TOXICITY: NO DATA AVAILABLE		
OVEREXPOSURE BY INGESTION OF THIS PRODUCT MAY CAUSE GASTROINTESTINAL IRRITATION, DIARRHEA, NAUSEA AND VOMITING. THIS PRODUCT MAY CAUSE EYE IRRITATION				
THIS PRODUCT MAY CAUSE SKIN AND INHALATION IRRITATION				
CHRONIC: NO DATA AVAILABLE				
Carcinogenicity:	NTP?	NO	IARC Monographs?	NO
	OSHA Regulated?			NO
Signs and Symptoms of Exposure		NO DATA AVAILABLE		
Medical Conditions Generally Aggravated by Exposure		CONTACT MAY CAUSE IRRITATION		
Emergency and First Aid Procedures		INGESTION: DO NOT INDUCE VOMITING, CALL A PHYSICIAN.		
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. DIKE OR IMPOUND TO KEEP PRODUCT OUT OF SEWERS AND WATERCOURSES. ABSORB SPILL WITH INERT MATERIAL, SHOVEL INTO WASTE CONTAINERS. WASH AREA WITH WATER. ABSORB WATER WITH INERT MATERIAL. CONTINUE THIS PROCEDURE UNTIL NO ODOR REMAINS.		
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 WHEN NOT IN USE. KEEP FROM SOURCES OF IGNITION. 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.		
Section VIII - Control Measures				
Respiratory Protection		A RESPIRATOR APPROVED BY NIOSH/MSHA SHOULD BE WORN WHERE VAPOR 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><i>THE INFORMATION HEREIN IS GIVEN IN GOOD FAITH, BUT NO WARRANTY, EXPRESSED OR IMPLIED, IS MADE.</i></p>				