



CHEMICAL & FERTILIZER CORPORATION

MATERIAL SAFETY DATA SHEET

IDENTITY		NU-FILM-IR®			
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	
THIS PRODUCT HAS BEEN TESTED AS A WHOLE TO DETERMINE ITS 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					
Percent Volatile	No data available	Specific Gravity (H2O=1)	0.93-0.95 @ 20c		
Vapor Pressure (mm Hg @ 25c)	No data available	Melting Point	NA		
Vapor Density (AIR=1)	No data available	Evaporation Rate (Butyl Acetate=1)	ND		
Solubility in Water	EMULSIFIABLE		pH	NA	
Appearance and Odor	YELLOW/AMBER to RED LIQUID; MODERATE ODOR				
Section IV - Fire and Explosion Hazard Data					
Flash Point	>100 c TCC	Flammable Limits	ND	LEL	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.				
Section V - Reactivity Data					
Stability	Unstable	Conditions to Avoid	EXCESSIVE HEAT, SOURCES OF IGNITION, STRONG OXIDIZERS.		
	Stable				
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				

Section VI - Health Hazard Data						
Route(s) of Entry:	Inhalation?	YES	Skin?	YES	Ingestion?	YES
Health Hazards (Acute and Chronic) ORAL TOXICITY: RATS >5000 mg/kg. Practically non-toxic.						
DERMAL TOXICITY RATS >2000 mg/kg		INHALATION TOXICITY: LC50 >2460 mg/m ³				
ACUTE TOXICOLOGICAL PROPERTIES:NONE						
THIS PRODUCT MAY CAUSE SLIGHT EYE IRRITATION						
THIS PRODUCT MAY CAUSE MILD EYE, SKIN AND THROAT 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 CONTACT MAY CAUSE IRRITATION						
Aggravated by Exposure						
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><u>THE INFORMATION HEREIN IS GIVEN IN GOOD FAITH, BUT NO WARRANTY, EXPRESSED OR IMPLIED, IS MADE.</u></p>						