

Material Safety Data Sheet

n/av. = not available
NFPA Hazard Rating: 4 = Extreme
WHMIS HAZARD: B-3, D-1B

Abbreviations used on this Material Safety Data Sheet:
n/ap. = not applicable
3 = High
2 = Moderate
1 = Slight

ppm = parts per million
TLV= Threshold Limit Value
0 = None
X – blank

NFPA HAZARD RATING:
HEALTH – 2, FLAMMABILITY – 2, REACTIVITY - 0

SECTION 1 – PRODUCT IDENTIFICATION AND USE

PRODUCT IDENTIFIER	Polar D Antigel & Water Dispersant				MCNHPD			
PRODUCT USE	Winter Fuel Additive							
MANUFACTURER NAME	Fuel Power Marketing				SUPPLIER NAME	Case New Holland		
STREET ADDRESS	4521 Saratoga Ave				STREET ADDRESS	621 State Street		
CITY	San Diego	STATE	CA		CITY	Racine	WI	
ZIP CODE	92107	TELEPHONE NUMBER	(619) 223-0351		POSTAL CODE	53406	TELEPHONE NUMBER	(262) 636-6281

SECTION 2 – HAZARDOUS INGREDIENTS

HAZARDOUS INGREDIENTS	%	CAS NUMBER	LETHAL DOSE (50%) OF INGREDIENT (SPECIFY SPECIES AND ROUTE)	LETHAL CONCENTRATION (50%) OF INGREDIENT (SPECIFY SPECIES AND ROUTE)
2-butoxyethanol	60-100	111-76-2	560 mg/kg (rat, oral)	500 ppm/4hr. (rat, inhalation)
xylene	5-8	1330-20-7	4300 mg/kg (rat, oral)	5000 ppm/4hr. (rat, inhalation)
hydroxethylated aminoethylamide	10-12	68412-09-9	n/a	n/a

SECTION 3 – PHYSICAL DATA

PHYSICAL STATE	Liquid	ODOR AND APPEARANCE			Characteristic solvent odor. Clear.	ODOR THRESHOLD	n/av.		
VAPOR PRESSURE	0.76	VAPOR DENSITY	4.1	EVAPORATION RATE	0.1	BOILING POINT	171 C	FREEZING POINT	n/av.
pH	n/ap.	SPECIFIC GRAVITY	0.90	COEFFICIENT OF MATERIAL DISTRIBUTION				Soluble in water	

SECTION 4 – FIRE AND EXPLOSION DATA

FLAMMABILITY IF YES, UNDER WHICH CONDITIONS?				Vapors form explosive mixture in air when between flammability limits. Vapor is heavier than air and may collect in low areas and travel over some distance.			
YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>				
MEANS OF EXTINCTION				Carbon dioxide, dry chemical powder, alcohol foam.			
SPECIAL PROCEDURES				Fire fighters must wear self-contained breathing apparatus and full protective gear. Use water spray to cool containers below flash point.			
FLASHPOINT AND METHOD		62C TCC	UPPER FLAMMABILITY LIMIT		12.7	LOWER FLAMMABILITY LIMIT (% BY VOLUME) 1.1	
AUTOIGNITION TEMPERATURE		238 C	HAZARDOUS COMBUSTION PROCUTS		Oxides of carbon		
EXPLOSION DATA		Probably not sensitive to impact.			SENSITIVITY TO STATIC DISCHARGE Probably not sensitive to static charge.		
SENSITIVITY TO IMPACT							

SECTION 5 – REACTIVITY DATA

CHEMICAL STABILITY. IF NO, UNDER WHICH CONDITIONS?		Normally stable to heat, light, and air.	
YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>
INCOMPATIBILITY WITH OTHER SURFACES. IF YES, WHICH ONES?		Avoid strong oxidizing agents and strong bases. Will attack some forms of plastic, rubber, and coatings.	
YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>
FLAMMABILITY IF YES, UNDER WHICH CONDITIONS?			
Hazardous polymerization will not occur.			
HAZARDOUS DECOMPOSITION PRODUCTS			
Oxides of carbon upon thermal decomposition.			

PRODCUT IDENTIFIER Polar D Antigel & Water Dispersant			
SECTION 6 – TOXICOLOGICAL PROPERTIES			
ROUTE OF ENTRY SKIN CONTACT <input checked="" type="checkbox"/> SKIN ABSORPTIONS <input checked="" type="checkbox"/> EYE CONTACT <input checked="" type="checkbox"/> INHALATION <input checked="" type="checkbox"/> INGESTION <input checked="" type="checkbox"/>			
EFFECTS OF ACUTE EXPOSURE TO PRODUCT High vapor concentrations may cause respiratory tract and eye irritation, nausea, and signs of central nervous system depression (headache, drowsiness, dizziness, loss of coordination and fatigue). Contact with liquid can cause mild skin irritation and severe eye irritation. Toxic by ingestion, inhalation, and skin absorption. Aspiration hazard if swallowed. Can enter lungs during swallowing or vomiting and cause lung inflammation and damage.			
EFFECTS OF CHRONIC EXOSURE TO PRODUCT Prolonged or repeated skin contact can cause dermatitis. Prolonged or repeated over exposure may cause liver, kidney, or blood damage..			
EXPOSURE LIMITS ACGIH TLV-TWA = 25 ppm OSHA PEL of 50 ppm, TWA	IRRITANCY OF PRODUCT As above.	SENSITIZATION TO PRODUCT A component is a skin sensitizer.	CARCINOGENICITY Not listed by IARC, NTP, OSHA.
TERATOGENICITY 2-butoxyethanol and xylene caused developmental toxicity in laboratory animals.	REPRODUCTIVE TOXICITY Not identified.	MUTAGENICITY Not identified.	SYNERGISTIC PRODUCTS Not identified.
SECTION 7 – PREVENTIVE MEASURES			
PERSONAL PROTECTIVE EQUIPMENT:			
GLOVES (SPECIFY) Butyl rubber or Saranex are recommended.	RESPIRATOR (SPECIFY) Not normally required under adequate ventilation conditions. NIOSH recommends for concentrates up to 50 ppm, a chemical cartridge respirator with organic vapor cartridge.		EYE (SPECIFY) Safety glasses or goggles. Do not wear contact lenses.
FOOTWEAR (SPECIFY) Impervious boots.	CLOTHING (SPECIFY) Coveralls or other protective clothing.		OTHER (SPECIFY) Eye wash station and safety shower in area
ENGINEERING CONTROLS (SPECIFY VENTILATION, ENCLOSED PROCESS) Use of combination of local exhaust and dilution ventilation to keep exposure below exposure limit..			
LEAK AND SPILL PROCEDURE Eliminate all sources of ignition. Wear appropriate personal protective equipment. Contain spill with dikes and absorbent materials. Collect in suitable closed container.			
WASTE DISPOSAL Follow all local, provincial, and national regulations.			
HANDLING PROCEDURES AND EQUIPMENT Ground all transfer containers to prevent static accumulation.			
STORAGE REQUIREMENTS Store in a cool, dry place away from all sources of ignition and incompatible materials. Keep container tightly closed when not in use. Keep away from children.			
SPECIAL SHIPPING INFORMATION Consumer Commodity exemption may apply. See TDG Regulations.		TDG. UN NUMBER n/ap.	
SECTION 8 – FIRST AID MEASURES			
SPECIFIC MEASURES SKIN CONTACT: Remove contaminated clothing. Wash thoroughly with soap and water for 20 minutes. Launder clothing before reuse. Seek medical attention if irritation occurs. EYE CONTACT: Immediately flush eyes with water for 20 minutes while retracting eyelids. Seek medical attention. INGESTION: Do not induce vomiting. If victim is conscious, have them drink 300 ml of water to dilute ingested material. Never give anything by mouth to an unconscious or convulsing person. Seek medical attention immediately. INHALATION: Remove victim to fresh air. Use artificial respiration if victim has stopped breathing. Seek immediate medical attention.			
SECTION 9 – PREPARATION DATE OF MSDS			
PREPARED BY Fuel Power Marketing using the CCINFO database.	PHONE NUMBER Fuel Power Marketing (619) 223-0351 (o) (619) 223-5165 (f)	DATE August 10, 2012	