



## Material Safety Data Sheet

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### SECTION I - Material Identity

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Item Name	
Part Number/Trade Name	WAGNER BRAKE - DOT 3 - PREMIUM PLUS BRAKE FLUID (H-130)
National Stock Number	9150002319071
CAGE Code	<u>FDMOG</u>
Part Number Indicator	A
MSDS Number	189975
HAZ Code	B

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### SECTION II - Manufacturer's Information

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Manufacturer Name	FEDERAL-MOGUL (FORMERLY WAGNER)
Street	6565 WELLS AVE
City	ST LOUIS
State	MO
Country	US
Zip Code	63133
Emergency Phone	800 424-9300 CHEMTREC
Information Phone	314-977-0300

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### MSDS Preparer's Information

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Date MSDS Prepared/Revised	11MAY00
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Active Indicator Y

## Alternate Vendors

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## SECTION III - Physical/Chemical Characteristics

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NRC License Number	NR
Net Propellant Weight (Ammo)	NR
Appearance/Odor	CLEAR LIGHT AMBER LIQUID MILD
Boiling Point	450 F
Melting Point	NR
Vapor Pressure	ND
Vapor Density	ND
Specific Gravity	1.036
Decomposition Temperature	NR
Solubility in Water	SOLUBLE
Percent Volatiles by Volume	ND
Chemical pH	9.5-10.5
Corrosion Rate	NR
Container Type	R
Container Pressure Code	1
Temperature Code	4
Product State Code	L

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## SECTION IV - Fire and Explosion Hazard Data

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Flash Point	210
Flash Point Method	PMCC
Lower Explosion Limit	ND
Upper Explosion Limit	ND
Extinguishing Media	NON-FLAMMABLE. VAPORS MAY BE FLAMMABLE WHEN EXPOSED TO HEAT, SPARKS OR FLAMES. APPLY WATER SPRAY AND OR FOAM GENTLY TO SURFACE OF LIQUID TO AVOID FROTHING FROM WATER TURNING TO STEAM BELOW THE LIQUID SURFACE. FROTHING MAY BE VIOLENT. DO NOT USE DIRECT STREAM
Special Fire Fighting Procedures	FIREFIGHTERS SHOULD WEAR A NIOSH/MSHA APPROVED FULL FACEPIECE, SCBA OPERATED IN POSITIVE PRESSURE MODE AND FULL TURNOUT GEAR
Unusual Fire/Explosion Hazards	NR

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## SECTION V - Reactivity Data

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Stability	YES
Stability Conditions to Avoid	AVOID HEAT. SOME POLYETHYLENE GLYCOLS HAVE A SOLVENT ACTION ON CERTAIN PLASTICS

Materials to Avoid	EXPLOSIVE HYDROGEN GAS IS RELEASED WHEN DIETHYLENE GLYCOL IS MIXED WITH SODIUM HYDROXIDE AT HIGH TEMPERATURES. DIETHYLENE GLYCOL MAY REACT WITH OXIDIZING MATERIAL SUCH AS PERMANGANATES AND DICHROMATES WHEN EXPOSED TO HEAT OR FLAMES
Hazardous Decomposition Products	NO DATA
Hazardous Polymerization	NO
Polymerization Conditions to Avoid	WILL NOT OCCUR
LD50 - LD50 Mixture	NR

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## SECTION VI - Health Hazard Data

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Route of Entry: Skin	YES
Route of Entry: Ingestion	YES
Route of Entry: Inhalation	YES
Health Hazards - Acute and Chronic	[EYES] CAUSES SEVERE IRRITATION, EXCESS BLINKING, TEAR PRODUCTION, MARKED EXCESS REDNESS AND SWELLING OF THE CONJUNCTIVA [SKIN] PROLONGED OR WIDESPREAD CONTACT MAY RESULT IN THE ABSORPTION OF HARMFUL AMOUNTS OF MATERIAL [INHAL] NO EXPECTED FROM VAPOR [INGEST] SLIGHTLY TOXIC, MAY CAUSE AGDOMINAL DISCOMFORT, NAUSEA
Carcinogenity: NTP	NR
Carcinogenity: IARC	NR
Carcinogenity: OSHA	NR
Explanation of Carcinogenity	NONE
Symptoms of Overexposure	[EYES] CAUSES SEVERE IRRITATION, EXCESS BLINKING, TEAR PRODUCTION, MARKED EXCESS REDNESS AND SWELLING OF THE CONJUNCTIVA [SKIN] PROLONGED OR WIDESPREAD CONTACT MAY RESULT IN THE ABSORPTION OF HARMFUL AMOUNTS OF MATERIAL [INHAL] NO EXPECTED FROM VAPOR [INGEST] SLIGHTLY TOXIC, MAY CAUSE AGDOMINAL DISCOMFORT, NAUSEA
Medical Cond. Aggrevated by Exposure	NR
Emergency/First Aid Procedures	[EYES] FLUSH W/ WATER FOR 15 MINUTES [SKIN] WASH W/ SOAP AND WATER, REMOVE CONTAMINATED CLOTHING, LAUNDRER BEFORE REUSE [INHAL] REMOVE TO FRESH AIR [INGEST] INDUCE VOMITING, NEVER GIVE ANYTHING TO AN UNCONSCIOUS PERSON

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## SECTION VII - Precautions for Safe Handling and Use

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Steps if Material Released/Spilled	ABSORB SMALL SPILLS WITH SUITABLE SORBENT MATERIAL AND PLACE IN TIGHTLY CLOSED CONTAINERS FOR LATER DISPOSAL. FOR LARGE SPILLS. ISOLATE HAZARD AREA AND DENY ENTRY TO UNAUTHORIZED OR UNPROTECTED
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Neutralizing Agent	PERSONNEL. DIKE WELL AHEAD OF SPILL WITH SUITABLE SORBENT MATERIAL.
Waste Disposal Method	CLEAN-UP PERSONNEL SHOULD WEAR PERSONAL PROTECTIVE EQUIPMENT APPROPRIATE FOR THE MAGNITUDE OF EXPOSURE
Handling and Storage Precautions	NR
Other Precautions	DISPOSE IAW FEDERAL, STATE, LOCAL REGULATIONS
	STORE IN COOL, WELL VENTILATED AREA AWAY FROM OXIDIZERS AND IGNITION SOURCES. DO NOT EAT, DRINK OR SMOKE IN AREAS WHERE THE PRODUCT IS BEING USED OR STORED. AVOID SKIN CONTACT. DO NOT LET BRAKE FLUID GET IN EYES. WASH HANDS THOROUGHLY AFTER HANDLING AND BEFORE BREAKS AND MEALS
	NR

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## SECTION VIII - Control Measures

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Respiratory Protection	UNDER NORMAL WORKING CONDITIONS (AT OR BELOW PEL) NONE REQUIRED. FOR CONCENTRATIONS OF ETHYLENE GLYCOL TO 500 PPE, AN NIOSH-MSHA APPROVE DUST MIST RESPIRATOR WITH ORGANIC VAPOR CARTRIDGE SHOULD BE WORN
Ventilation	GENERAL VENTILATION. LOCAL EXHAUST WHEN PRODUCT IS HEATED OR AGITATED
Protective Gloves	GLOVES
Eye Protection	SPLASH PROOF GOGGLES SHOULD BE WORN WHEN THE POSSIBILITY OF CONTACT
Other Protective Equipment	APRONS
Work Hygienic Practices	WASH HANDS AFTER USE

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## SECTION IX - Label Data

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Protect Eye	YES
Protect Skin	YES
Protect Respiratory	YES
Chronic Indicator	YES
Contact Code	SLIGHT
Fire Code	UNKNOWN
Health Code	UNKNOWN
React Code	UNKNOWN
Specific Hazard and Precaution	TARGET ORGANS: LIVER, KIDNEY, CENTRAL NERVOUS SYSTEM

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## SECTION X - Transportation Data

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## SECTION XI - Site Specific/Reporting Information

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Volatile Organic Compounds (P/G)	0
Volatile Organic Compounds (G/L)	0

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## SECTION XII - Ingredients/Identity Information

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Ingredient #	01
Ingredient Name	ETHANOL, 2-[2-(2-BUTOXYETHOXY)ETHOXY]- (25-29%)
CAS Number	143226
Proprietary	NO
Percent	29
OSHA PEL	NE
ACGIH TLV	NE
Ingredient #	02
Ingredient Name	ETHANOL, 2,2'-OXYBIS- (16-20%)
CAS Number	111466
Proprietary	NO
Percent	20
OSHA PEL	NE
ACGIH TLV	NE
Ingredient #	03
Ingredient Name	ETHANOL, 2-(2-BUTOXYETHOXY)- (10-14%)
CAS Number	112345
Proprietary	NO
Percent	14
OSHA PEL	NE
ACGIH TLV	NE
Ingredient #	04
Ingredient Name	2-((2-HEXYLOXY) ETHOXY) ETHANOL (11-15%)
CAS Number	112594
Proprietary	NO
Percent	15
OSHA PEL	NE
ACGIH TLV	NE
Ingredient #	05
Ingredient Name	DIETHYLENE GLYCOL MONOPROPYL ETHER (2-5%)
CAS Number	6881943
Proprietary	NO
Percent	5
OSHA PEL	NE
ACGIH TLV	NE
Ingredient #	06
Ingredient Name	ETHANOL, 2-[2-(2-METHOXYETHOXY)ETHOXY]- (7-11%)
CAS Number	112356
Proprietary	NO
Percent	11

OSHA PEL	NE
ACGIH TLV	NE
Ingredient #	07
Ingredient Name	POLY(OXY-1,2-ETHANEDIYL), .ALPHA.-HYDRO-.OMEGA.-HYDROXY- (4-8%)
CAS Number	25322683
Proprietary	NO
Percent	8
OSHA PEL	NE
ACGIH TLV	NE
Ingredient #	08
Ingredient Name	ETHANOL, 2-[2-(2- ETHOXYETHOXY)ETHOXY]- (2-6%)
CAS Number	112505
Proprietary	NO
Percent	6
OSHA PEL	NE
ACGIH TLV	NE
Ingredient #	09
Ingredient Name	ETHANOL, 2,2'-[1,2- ETHANEDIYLBIS(OXY)]BIS-(1-5%)
CAS Number	112276
Proprietary	NO
Percent	5
OSHA PEL	NE
ACGIH TLV	NE
Recommended Limit	NONE SPECIFIED
Ingredient #	10
Ingredient Name	DIETHYLENE GLYCOL MONOMETHYL ETHER (0-4%)
CAS Number	111773
Proprietary	NO
Percent	4
OSHA PEL	NE
ACGIH TLV	NE
Ingredient #	11
Ingredient Name	ETHANOL, 2-(2-ETHOXYETHOXY)- (3-6%)
CAS Number	111900
Proprietary	NO
Percent	6
OSHA PEL	NONE
ACGIH TLV	NE
Ingredient #	12
Ingredient Name	1,2-ETHANEDIOL (0-4%)
CAS Number	107211
Proprietary	NO
Percent	4

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