

1FID: 00052976
VER DATE: 1991-04-05

C H E M I S T R I DATE: 10/22/02
MATERIAL SAFETY DATA SHEET TIME: 19:01:11
PAGE: 0001

SECTION 01: CHEMICAL PRODUCT & COMPANY ID

PRODUCT PRIMARY NAME: AEROSHELL GREASE 5
ALL SYNONYMS : AEROSHELL (R) GREASE 5
AEROSHELL GREASE 5
AEROSHELL 5
BRAKE CALIPER LUBRICANT
CUA: 26-223
GOODWRENCH BRAKE LUBRICANT
GREASE
GREASE CARTRIDGE
OL-217
TPW972
034
12377969
56230E-08 (MSDS NO.)
70025
70025 (SHELL CODE)
9985921

MSDS SIGNED BY NAME: J.C. WILLETT

SAFE USE CATEGORY AND DESCRIPTION: 04 -METAL WORKING FLUIDS AND
LUBRICANTS

LAST UPDATED DATE: 1993-08-27

MANUFACTURER'S ID (MID): 000556552
MANUFACTURER'S NAME: EQUILON ENTERPRISES LLC
MANUFACTURER'S EMERGENCY PHONE NUMBER/TEXT: US 877-276-7283
US 800-424-9300

MANUFACTURER'S MAILING ADDRESS:
(SHELL AND TEXACO MERGER)
P.O. BOX 674414
HOUSTON TX 77267-4414
US

MANUFACTURER'S MSDS NUMBER: 56,230-7

CHEMICAL FAMILY NAME: LUBRICATING GREASE.
CHEMICAL NAME: MIXTURE (SEE SECTION 2).

PRODUCT USE: REVIEW TYPE: MATERIAL. MATERIAL TYPE: FLUID/LUBRICANT.
PROCESSING: ROBOT DISP. QUANTITY: DRUM. TARGET USAGE: YEAR 1996;
PLANT(S) JANESVILLE ASSEMBLY. SYNONYMS/COMMENTS: GREASE REQUESTED BY
DESIGN ENGINEERING AND SERVICE FOR BRAKE CALIPERS. SPECIFICATION
9985921 HAS ALREADY BEEN PUBLISHED (COPY ENCLOSED). FID # REQUESTED FOR
TECHNICAL APPROVAL: TARGET USAGE: BRAKE CALIPERS - MED. DUTY TRUCK.
TARGET MODEL YEAR: 1996.

SECTION 1 - OTHER INFORMATION: BE SAFE READ OUR PRODUCT SAFETY
INFORMATION ... AND PASS IT ON (PRODUCT LIABILITY LAW REQUIRES IT).

MATERIAL CODE: 70025. TRADE NAME: AEROSHELL GREASE NO. 5. MATERIAL SOURCE: SHELL OIL. 998XXXX: 9985921.

SECTION 02: COMPOSITION & INGREDIENT INFO

CAS#	FORMULATION	W/V	CHEMICAL NAME
001302789	= 6.0000/ 0.0000%	W	BENTONITE
007664382	< 0.0000/ 3.0000%	W	PHOSPHORIC ACID
017265144	< 0.0000/ 3.0000%	W	SEBACIC ACID, DISODIUM SALT
064742570	= 89.0000/ 0.0000%	W	Residual oils, petroleum, hydrotre ated
068608775	< 0.0000/ 3.0000%	W	Benzenamine, 2-ethyl-N-(2-ethylphe nyl)-, (tripropenyl) derivs.
068910930	< 0.0000/ 3.0000%	W	Fatty acids, tall-oil, reaction pr oducts with polyethylenepolyamines

SECTION 2 - OTHER INFORMATION: BASED UPON DATA AVAILABLE TO SHELL. COMPONENTS IN THIS PRODUCT ARE NOT HAZARDOUS UNDER OSHA HAZARD COMMUNICATION (129 CFR 1910.1200).

SECTION 03: HAZARDS IDENTIFICATION

EFFECTS OF OVEREXPOSURE: SIGNS AND SYMPTOMS: IRRITATION AS NOTED BELOW. LOCAL NECROSIS IS EVIDENCED BY DELAYED ONSET OF PAIN AND TISSUE DAMAGE A FEW HOURS FOLLOWING INJECTION.
EFFECTS OF OVEREXPOSURE - SKIN: PROLONGED OR REPEATED CONTACT MAY CAUSE VARIOUS SKIN DISORDERS SUCH AS DERMATITIS, FOLLICULITIS OR OIL ACNE. RELEASE DURING HIGH PRESSURE USAGE MAY RESULT IN INJECTION OF GREASE INTO THE SKIN CAUSING LOCAL NECROSIS.
EFFECTS OF OVEREXPOSURE - EYE: MAY BE MILDLY IRRITATING TO THE EYES.
EFFECTS OF OVEREXPOSURE - INHALATION: NOT EXPECTED TO BE A RELEVANT ROUTE OF EXPOSURE, HOWEVER, UNDER HIGH TEMPERATURE CONDITIONS, VAPORS IRRITATING TO THE NOSE, THORAX AND UPPER RESPIRATORY TRACT MAY BE PRODUCED.
EFFECTS OF OVEREXPOSURE - INGESTION: GREASES ARE GENERALLY CONSIDERED TO HAVE A LOW ORDER OF ACUTE ORAL TOXICITY.
MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: PREEXISTING SKIN DISORDERS MAY BE AGGRAVATED BY EXPOSURE TO THIS PRODUCT.

ADDITIONAL HEALTH HAZARD DATA: OTHER HEALTH EFFECTS: THIS SPECIFIC PRODUCT HAS NOT BEEN TESTED IN LONG-TERM, CHRONIC EXPOSURE TEST. LUBRICATING GREASES ARE GENERALLY CONSIDERED TO BE OF A LOW ORDER OF ACUTE TOXICITY TO HUMANS AND EXPERIMENTAL ANIMALS. HOWEVER, THE HANDLING PROCEDURES AND SAFETY PRECAUTIONS IN THIS MSDS SHOULD BE FOLLOWED TO MINIMIZE EMPLOYEE'S EXPOSURE.

SECTION 3 - OTHER INFORMATION: THE HEALTH EFFECTS NOTED ABOVE ARE CONSISTENT WITH REQUIREMENTS UNDER THE OSHA HAZARD COMMUNICATION STANDARD (29 CFR 1910.1200).

SECTION 04: FIRST AID MEASURES

EMERGENCY FIRST AID PROCEDURES - SKIN: REMOVE CONTAMINATED CLOTHING AND

WIPE EXCESS OFF. WASH WITH SOAP AND WATER OR A WATERLESS HAND CLEANER FOLLOWED BY SOAP AND WATER. DO NOT REUSE CLOTHING UNTIL THOROUGHLY CLEANED. IF IRRITATION PERSISTS, GET MEDICAL ATTENTION. IF MATERIAL IS INJECTED UNDER THE SKIN, GET MEDICAL ATTENTION PROMPTLY TO PREVENT SERIOUS DAMAGE; DO NOT WAIT FOR SYMPTOMS TO DEVELOP.

EMERGENCY FIRST AID PROCEDURES - EYES: FLUSH WITH WATER FOR 15 MINUTES WHILE HOLDING EYELIDS OPEN. GET MEDICAL ATTENTION.

EMERGENCY FIRST AID PROCEDURES - INHALATION: REMOVE VICTIM TO FRESH AIR AND PROVIDE OXYGEN IF BREATHING IS DIFFICULT. GET MEDICAL ATTENTION.

EMERGENCY FIRST AID PROCEDURES - INGESTION: DO NOT INDUCE VOMITING. IN GENERAL, NO TREATMENT IS NECESSARY UNLESS LARGE QUANTITIES OF PRODUCT ARE INGESTED. HOWEVER, GET MEDICAL ADVICE.*

NOTES TO PHYSICIAN: *NOTE TO THE PHYSICIAN: IN GENERAL, EMESIS INDUCTION IS UNNECESSARY IN HIGH VISCOSITY, LOW VOLATILITY PRODUCTS, I.E., MOST OILS AND GREASES.

SECTION 05: FIRE-FIGHTING MEASURES

FLAMMABLE LEL: NAV 0.00

FLAMMABLE UEL: NAV 0.00

EXTINGUISHING MEDIA: USE WATER FOG, DRY CHEMICAL OR CO2. DO NOT USE A DIRECT STREAM OF WATER. PRODUCT WILL FLOAT AND CAN BE REIGNITED ON SURFACE OF WATER.

SPECIAL FIRE FIGHTING PROCEDURES: DO NOT ENTER CONFINED FIRE SPACE WITHOUT PROPER PROTECTIVE EQUIPMENT INCLUDING A NIOSH APPROVED SELF-CONTAINED BREATHING APPARATUS. COOL FIRE EXPOSED CONTAINERS SURROUNDING EQUIPMENT AND STRUCTURES WITH WATER.

NFPA CODES:

NFPA FLAMMABILITY CODE = 1

NFPA HEALTH CODE = 2

NFPA REACTIVITY CODE = 1

FLASH POINT TEMPS: = 550.00F

FLASH POINT TEXT: (BASE OIL).

FLASH POINT METHOD: PMCC

SECTION 5 - OTHER INFORMATION: ACUTE HEALTH* =1; FIRE: =1; REACTIVITY: =0. HAZARD RATING: LEAST =0;SLIGHT =1. *FOR ACUTE AND CHRONIC HEALTH EFFECTS REFER TO THE DISCUSSION IN SECTION 3.

SECTION 06: ACCIDENTAL RELEASE MEASURES

SPILL OR LEAK PROCEDURES: SCOOP UP EXCESS GREASE. CLEAN AREA WITH APPROPRIATE CLEANER.

ENVIRONMENTAL IMPACT: EPA-CLEAN WATER ACT (CWA). THIS PRODUCT IS CLASSIFIED AS AN OIL UNDER SECTION 311 OF THE CLEAN WATER ACT. SPILLS ENTERING (A) SURFACE WATERS OR (B) ANY WATERCOURSES OR SEWERS ENTERING/LEAVING TO SURFACE WATERS THAT CAUSE A SHEEN MUST BE REPORTED TO THE NATIONAL RESPONSE CENTER, 800-424-8802

SECTION 07: HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: STORE IN A COOL, DRY PLACE WITH ADEQUATE VENTILATION. KEEP AWAY FROM OPEN FLAMES AND HIGH TEMPERATURES.

SECTION 7 - OTHER INFORMATION: MINIMIZE SKIN CONTACT. WASH WITH SOAP AND WATER BEFORE EATING, DRINKING, SMOKING OR USING TOILET FACILITIES. LAUNDRY CONTAMINATED CLOTHING BEFORE REUSE. PROPERLY DISPOSE OF CONTAMINATED LEATHER ARTICLES, INCLUDING SHOES, THAT CANNOT BE DECONTAMINATED.

SECTION 08: EXPOSURE CONTROLS - PROTECTION

RESPIRATORY PROTECTION: NOT ORDINARILY REQUIRED.

PERSONAL PROTECTIVE EQUIPMENT: USE OIL RESISTANT GLOVES AND OTHER CLOTHING AS NEEDED TO MINIMIZE SKIN CONTACT.

SECTION 09: PHYSICAL & CHEMICAL PROPERTIES

BOILING POINT TEMPS: NAV

MELTING/FREEZE POINT TEXT: 500F (DROP POINT).

SPECIFIC GRAVITY VALUES: NAV

VAPOR DENSITY VALUES: NAV

VAPOR PRESSURE VALUES/UOM: NAV

EVAPORATION RATE VALUES: NAV 0.00

SOLUBILITY IN WATER TEXT: INSOLUBLE.

APPEARANCE: DARK AMBER, SMOOTH GREASE.

ODOR: SLIGHT ODOR.

VISCOSITY TEXT: 30-34 (CS @100C).

SECTION 10: STABILITY & REACTIVITY

STABILITY INDICATOR: Y

STABILITY - CONDITIONS TO AVOID: AVOID HEAT, OPEN FLAME AND CONTACT WITH STRONG OXIDIZING AGENTS.

HAZARDOUS DECOMPOSITION PRODUCTS: THERMAL DECOMPOSITION PRODUCTS ARE HIGHLY DEPENDENT ON THE COMBUSTION CONDITIONS. A COMPLEX MIXTURE OF AIRBORNE SOLID, LIQUID PARTICULATES AND GASES WILL EVOLVE WHEN THIS MATERIAL UNDERGOES PYROLYSIS OR COMBUSTION. CARBON MONOXIDE AND UNIDENTIFIED ORGANIC COMPOUNDS MAY BE FORMED UPON COMBUSTION.

HAZARDOUS POLYMERIZATION INDICATOR: N

SECTION 14: TRANSPORT INFORMATION

DOT INFORMATION: DEPARTMENT OF TRANSPORTATION CLASSIFICATION: NOT HAZARDOUS BY D.O.T. REGULATIONS.

SECTION 15: REGULATORY INFORMATION

SECTION 15 - OTHER INFORMATION: SARA TITLE III INFORMATION: EHS RQ (LBS): *1. EHS TPS (LBS): *2. SEC 313: *3. 313 CATEGORY: *4.
*1=REPORTABLE QUANTITY OF EXTREMELY HAZARDOUS SUBSTANCE, SEC. 302.
*2=THRESHOLD PLANNING QUANTITY, EXTREMELY HAZARDOUS SUBSTANCE, SEC 302.
*3=TOXIC CHEMICAL, SEC 313. *4=CATEGORY AS REQUIRED BY SEC 313 (40 CFR 372.65 C). MUST BE USED ON TOXIC RELEASE INVENTORY FORM. BASED ON THE DATA AVAILABLE TO SHELL THIS PRODUCT CONTAINS NO SUBSTANCES SUBJECT TO REPORTING OR PLANNING REQUIREMENTS UNDER SARA TITLE III.

SECTION 16: OTHER INFORMATION

SECTION 16 - OTHER INFORMATION: REGULATORY CONTROLS: THE COMPONENTS OF THIS PRODUCT ARE LISTED ON THE EPA/TSCA INVENTORY OF CHEMICAL SUBSTANCES. IN ACCORDANCE WITH SARA TITLE III, SECTION 313, THE ENVIRONMENTAL DATA SHEET (EDS) SHOULD ALWAYS BE COPIED AND SENT WITH THE MSDS. STATE REGULATORY INFORMATION: BASED ON INFORMATION AVAILABLE TO SHELL, THIS PRODUCT DOES NOT CONTAIN ANY CHEMICAL SUBSTANCE LISTED ON A CHEMICAL SPECIFIC STATE LIST.

RCRA HAZARDOUS WASTE NUMBER TEXT: DISPOSE OF IN AN APPROPRIATE DISPOSAL FACILITY IN COMPLIANCE WITH LOCAL REGULATIONS.