

1FID: 00311508
VER DATE: 1994-11-03

C H E M I S T R I
MATERIAL SAFETY DATA SHEET

DATE: 10/22/02
TIME: 19:02:22
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SECTION 01: CHEMICAL PRODUCT & COMPANY ID

PRODUCT PRIMARY NAME: CASTROL TLX-988D
ALL SYNONYMS : BXL 267C
CASTROL TLX-988D
GOODWRENCH HYDRAULIC CLUTCH FLUID
HYDRAULIC CLUTCH FLUID
TLX-988D
12345347
2569
9985642

MSDS SIGNED BY TITLE: ENVIRONMENTAL ENGINEER - SPECIALTY PRODUCTS

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

LAST UPDATED DATE: 1994-11-03

MANUFACTURER'S ID (MID): 000551776
MANUFACTURER'S NAME: CASTROL - USE #555962
MANUFACTURER'S EMERGENCY PHONE NUMBER/TEXT: US 800-590-9855
MANUFACTURER'S MAILING ADDRESS:

5331 E. SLAUSON
COMMERCE CA 90040
US

CHEMICAL FAMILY NAME: GLYCOL ETHER/GLYCOL

MOLECULAR FORMULA: NO FORMULA APPLICABLE; MIXTURE.

PRODUCT USE: THE INTENDED APPLICATION FOR THIS MATERIAL IS AS FOLLOWS:
HYDRAULIC CLUTCH FLUID. // THIS MATERIAL IS INTENDED TO BE USED IN
PRODUCTION UNDER THE FOLLOWING CONDITIONS: METHOD OF APPLICATION:
PREFILLED, AUTOMATEDFILL. // TO BE USED AT THE FOLLOWING PLANTS:
VEHICLE ASSEMBLY PLANTS.

SECTION 1 - OTHER INFORMATION: SUPPLIER: CASTROL NORTH AMERICA.
PRODUCT: BXL-267C. SPECIFICATION: 9985642. PROPOSED PLATFORM: ALL.
MODEL YEAR: 95.

SECTION 02: COMPOSITION & INGREDIENT INFO

CAS#	FORMULATION	W/V	CHEMICAL NAME
000111466	< 0.0000/100.0000%	W	DIETHYLENE GLYCOL
000111773	< 0.0000/100.0000%	W	ETHANOL, 2-(2-METHOXYETHOXY)-
000111900	< 0.0000/100.0000%	W	ETHANOL, 2-(2-ETHOXYETHOXY)-
000112345	< 0.0000/100.0000%	W	ETHANOL, 2-(2-BUTOXYETHOXY)-
000112356	< 0.0000/100.0000%	W	ETHANOL, 2-(2-(2-METHOXYETHOXY)ETHOXY)-
000112505	< 0.0000/100.0000%	W	ETHANOL, 2-(2-(2-ETHOXYETHOXY)ETHOXY)-

			XY)-
000112607	< 0.0000/100.0000%	W	TETRAETHYLENE GLYCOL
000143226	< 0.0000/100.0000%	W	ETHANOL, 2-(2-(2-BUTOXYETHOXY)ETHOXY)-
001559348	< 0.0000/100.0000%	W	3,6,9,12-Tetraoxahexadecan-1-ol
004792158	< 0.0000/100.0000%	W	PENTAETHYLENE GLYCOL
023783428	< 0.0000/100.0000%	W	2,5,8,11-Tetraoxatridecan-13-ol
025322683	< 0.0000/100.0000%	W	WSR-301
027879078	< 0.0000/100.0000%	W	Poly(oxy-1,2-ethanediyl), .alpha.-ethyl-.omega.-hydroxy-
072986448	< 0.0000/100.0000%	W	Castor oil, ethoxylated propoxylated

SECTION 2 - OTHER INFORMATION: THE GLYCOL ETHER MIXTURE TOGETHER
 COMPRISES 70-100% OF THE FINAL PROD UCT.

THRESHOLD LIMIT VALUE: NONE ESTABLISHED FOR PRODUCT.

PERMISSIBLE EXPOSURE LIMIT: NONE ESTABLISHED FOR PRODUCT.

CERCLA (SUPERFUND) REPORTABLE QUANTITY (LBS): NOT APPLICABLE

 SECTION 03: HAZARDS IDENTIFICATION

PRIMARY ENTRY ROUTE INDICATORS:

SKIN PRIMARY ENTRY ROUTE INDICATOR =	Y
EYE PRIMARY ENTRY ROUTE INDICATOR =	Y

EFFECTS OF OVEREXPOSURE - SKIN: PRODUCT MAY CAUSE DRYING OR DERMATITIS
 ON PROLONGED EXPOSURE TO SKIN. AVOID SKIN CONTACT WITH USED FLUID.

EFFECTS OF OVEREXPOSURE - EYE: BASED ON EVALUATION OF SIMILAR
 MATERIALS, PRODUCT MAY BE MINIMALLY IRRITATION TO EYES AND MUCOUS
 MEMBRANES.

EFFECTS OF OVEREXPOSURE - INHALATION: UNDER NORMAL USAGE CONDITIONS,
 PRODUCT IS NOT EXPECTED TO IRRITATE RESPIRATORY SYSTEM.

EFFECTS OF OVEREXPOSURE - INGESTION: LETHARGY AND NAUSEA MAY RESULT
 FROM INGESTION.

 SECTION 04: FIRST AID MEASURES

EMERGENCY FIRST AID PROCEDURES - SKIN: WASH THOROUGHLY WITH SOAP AND
 WATER UNTIL ALL MATERIAL IS REMOVED FROM SKIN. WASH SATURATED CLOTHING
 BEFORE REUSE.

EMERGENCY FIRST AID PROCEDURES - EYES: FLUSH WITH WATER FOR 15 MINUTES
 OR UNTIL IRRITATION SUBSIDES. IF IRRITATION PERSISTS, CONTACT A
 PHYSICIAN.

EMERGENCY FIRST AID PROCEDURES - INHALATION: REMOVE PERSON FROM AREA OF
 EXPOSURE INTO FRESH AIR.

EMERGENCY FIRST AID PROCEDURES - INGESTION: DO NOT INDUCE VOMITING.
 SEEK MEDIAL ATTENTION.

 SECTION 05: FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA: DYE CHEMICAL, WATER SPRAY, (FOG), FOAM OR CARBON
 DIOXIDE

SPECIAL FIRE FIGHTING PROCEDURES: WEAR NIOSH/MSHA APPROVED POSITIVE PRESSURE SELF-CONTAINED BREATHING APPARATUS WHEN FIGHTING FIRES IN ENCLOSED AREAS. USE WATER SPRAY TO COOL FIRE EXPOSED SURFACES.

UNUSUAL FIRE AND EXPLOSION HAZARDS: WATER SPRAY MAY CAUSE FOAMING OR SPLATTERING.

NFPA CODES:

NFPA FLAMMABILITY CODE =	1
NFPA HEALTH CODE =	2
NFPA REACTIVITY CODE =	1

FLASH POINT TEMPS: > 220.00F

FLASH POINT METHOD: COC

SECTION 5 - OTHER INFORMATION: FLAMMABLE LIMITS: LEL: NO ESTABLISHED DATA. // UEL: NO ESTABLISHED DATA.

SECTION 06: ACCIDENTAL RELEASE MEASURES

SPILL OR LEAK PROCEDURES: REMOVE SOURCES OF HEAT OR IGNITION. CONTAIN LEAK. DO NOT PERMIT MATERIAL TO ENTER WATERWAYS OR SEWERS. ABSORB SMALL SPILL WITH SUITABLE INERT ABSORBENT, AND STORE IN CLOSED CONTAINER UNTIL DISPOSAL.

SECTION 07: HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: DO NOT INGEST. AVOID EYE AND SKIN CONTACT. AVOID BREATHING OR MISTS. KEEP CONTAINER CLOSED AND AWAY FROM EXTREME HEAT, OPEN FLAME, STRONG FLAMMABLE OR EXPLOSIVE VAPORS; DO NOT CUT OR WELD ON EMPTY CONTAINERS. AVOID SKIN CONTACT WITH USED FLUID.

SECTION 7 - OTHER INFORMATION: NOT APPLICABLE

SECTION 08: EXPOSURE CONTROLS - PROTECTION

EYE PROTECTION: SAFETY GLASSES OR GOGGLES OPTIONAL

RESPIRATORY PROTECTION: NOT NORMALLY REQUIRED. IF HIGH VAPOR OR MIST CONCENTRATIONS ARE EXPECTED, USE NIOSH APPROVED ORGANIC VAPOR/MIST RESPIRATOR.

VENTILATION: LOCAL EXHAUST OR MECHANICAL, RATE: REQUIRED AMOUNT NEEDED IN ORDER TO MAINTAIN WORKPLACE EXPOSURE BELOW RECOMMENDED TLV.

PERSONAL PROTECTIVE EQUIPMENT: STANDARD WORK CLOTHING OR A RUBBER APRON MAY BE USED TO AVOID PROLONGED OR REPEATED SKIN CONTACT. LAUNDRY SOILED CLOTHING BEFORE REUSE.

SECTION 8 - OTHER INFORMATION: OTHER: NOT APPLICABLE

PROTECTIVE GLOVES (SPECIFY TYPE): OIL IMPERVIOUS TO MINIMIZE SKIN CONTACT.

SECTION 09: PHYSICAL & CHEMICAL PROPERTIES

THEORETICAL VOC WITHOUT WATER: VOLATILE ORGANIC COMPOUND (VOC), AS PACKAGE, MINUS WATER: NOT APPLICABLE.

BOILING POINT TEMPS: = 400.00F
BOILING POINT TEXT: APPROX.

SPECIFIC GRAVITY VALUES: = 1.0400

VAPOR PRESSURE VALUES/UOM: = 0.5000MMHG
VAPOR PRESSURE TEXT: @ 70 F.

PERCENT SOLID BY WEIGHT VALUES: < 1.0000

EVAPORATION RATE TEXT: (BUAC=1): NO ESTABLISHED DATA

SOLUBILITY IN WATER TEXT: SOLUBLE

PH OF PRODUCT IN SOLUTION WITH WATER/TEXT: NOT APPLICABLE

APPEARANCE: YELLOW TO BROWN COLORED FLUID

ODOR: GLYCOL ODOR

SECTION 10: STABILITY & REACTIVITY

STABILITY INDICATOR: Y

INCOMPATIBLE MATERIALS: STRONG OXIDIZERS, HEAT, OPEN FLAME.

HAZARDOUS DECOMPOSITION PRODUCTS: IRRITATION OR TOXIC FUMES; OXIDES OF CARBON; ALDEHYDES.

HAZARDOUS POLYMERIZATION INDICATOR: N

SECTION 11: TOXICOLOGICAL INFORMATION

CARCINOGENICITY: NOT LISTED AS A CARCINOGEN BY NTP, IARC, OR OSHA.

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: MATERIAL SHOULD BE PACKAGED, LABELED, TRANSPORTED, AND DISPOSED OF IN CONFORMANCE WITH GOOD ENGINEERING PRACTICES. DISPOSAL METHOD MUST BE IN CONFORMANCE WITH APPLICABLE LOCAL, STATE, AND FEDERAL REGULATIONS REGARDING HEALTH, AIR AND WATER POLLUTION.

SECTION 13 - OTHER INFORMATION: NOTE: CHARACTERISTICS OF USED MATERIAL MUST BE RE-EVALUATED ACCORDING TO EPA RCRA CRITERIA PRIOR TO DISPOSAL.

SECTION 14: TRANSPORT INFORMATION

DOT INFORMATION: HAZARDOUS MATERIAL DESCRIPTION, SHIPPING NAME, HAZARD CLASS AND ID NO: NOT APPLICABLE. // ADDITIONAL HAZARD CLASSES (IF APPLICABLE): NOT APPLICABLE.

SECTION 15: REGULATORY INFORMATION

SECTION 15 - OTHER INFORMATION: EPCRA (SARA TITLE III), SECTION 313: GLYCOL ETHER, 80 % WT. MAX.

SECTION 16: OTHER INFORMATION

RCRA HAZARDOUS WASTE NUMBER TEXT: NOT APPLICABLE

SPECIAL PROTECTION: NOT NORMALLY REQUIRED
SAFE USE CATEGORY AND DESCRIPTION :

04 METAL WORKING FLUIDS AND LUBRICANTS

REGULATORY IMPACTS (REG) AND ADDITIONAL HEALTH HAZARD STATEMENTS (HHS) :

CAS#: 000111466 DIETHYLENE GLYCOL

REG:
0012,0061,0070,0084

CAS#: 000111773 ETHANOL, 2-(2-METHOXYETHOXY)-

REG:
0012,0019,0023,0061,0083
REG BY CATEGORY:
0020,0047,0048,0051,0066,0122

CAS#: 000111900 ETHANOL, 2-(2-ETHOXYETHOXY)-

REG:
0012,0023,0083,0084
REG BY CATEGORY:
0020,0047,0048,0051,0066,0122

CAS#: 000112345 ETHANOL, 2-(2-BUTOXYETHOXY)-

REG:
0012,0023,0068,0070,0084,0085,0087
REG BY CATEGORY:
0020,0047,0048,0051,0066,0122

CAS#: 000112356 ETHANOL, 2-(2-(2-METHOXYETHOXY)ETHOXY)-

REG:
0012,0083,0085,0087
REG BY CATEGORY:
0020,0047,0048,0051,0066,0122

CAS#: 000112505 ETHANOL, 2-(2-(2-ETHOXYETHOXY)ETHOXY)-

REG:
0012,0083,0087
REG BY CATEGORY:

0020,0047,0048,0051,0066,0122

CAS#: 000112607 TETRAETHYLENE GLYCOL

REG:
0012,0070

CAS#: 000143226 ETHANOL, 2-(2-(2-BUTOXYETHOXY)ETHOXY)-

REG:
0012,0083,0087

REG BY CATEGORY:
0020,0047,0048,0051,0066,0122

CAS#: 001559348 3,6,9,12-Tetraoxahexadecan-1-ol

REG:
0012

CAS#: 004792158 PENTAETHYLENE GLYCOL

REG:
0012

CAS#: 023783428 2,5,8,11-Tetraoxatridecan-13-ol

REG:
0012

CAS#: 025322683 WSR-301

REG:
0012

CAS#: 027879078 Poly(oxy-1,2-ethanediyl), .alpha.-ethyl-.omega.-hydroxy

REG:
0012

CAS#: 072986448 Castor oil, ethoxylated propoxylated

REG:
0012

REGULATORY KEY LIST:

0001	OSHA-PEL	0003	ACGIH-TLV	0004	GM-SPEC CHEM
0005	SUSP CARCIN	0006	EPA HW261.33	0007	EPA HW-APP 8
0008	MCMR	0009	FWPC-SEC 311	0010	EPA PRIORPOL
0011	NY SUBS CONC	0012	TSCA INV	0014	MI AIR POLLU
0015	SUP TAX CHEM	0016	MI HW-ACT 64	0017	CA HAZ SUBST
0018	NY SAN 22.8	0019	MA SUBST	0020	NJ ENV SUBST
0021	TOX ORGANICS	0022	MD CLASS I	0023	MD CLASS II
0024	EPA-ATC-I	0026	EPA-CHEMCONC	0027	WB VERY TOX
0028	WB OTHER TOX	0031	ALLGHNY CTY	0032	IL-RTK
0033	OSHA-HHCL	0034	FLT CRIT IND	0035	GM-AHC
0036	PRO EP TOX	0037	MO SPECIES	0038	MO-RTK
0039	ONT 654-86	0040	ONT DES SUB	0041	SARA312EXHAZ
0042	WI TABLE 1	0043	WI TABLE 2	0047	SARA 313
0048	CERCLASEC103	0049	P-65 CARCINO	0050	P-65 REP TOX
0051	MD CLSI .11	0052	MD CLSI .12	0053	MD CLSII .12
0054	CT 29-1	0055	CT 29-2	0056	CT 29-3
0057	EPA261.33(E)	0058	EPA261.33(F)	0059	CA AIR TOX 1
0060	CA AIR TOX 2	0061	PA RTK	0063	PELS REVISED
0064	NPDES-TOXPOL	0065	NJ W&C RTK	0066	CAA HAZ POL
0067	NV HIGH HAZ.	0068	MI 307-CARC	0069	MI 307-NCARC

0070	MICH AIR	0071	CAA602 CLSI	0075	C
0076	D	0078	GREAT LAKES	0080	METALS
0082	EPA 112(R)	0083	TSCA 8(D))	0084	GM OEG
0085	TSCA-TEST	0087	TSCA 12(B)	0088	NAT. POLL. REL
0089	NY CHEM BULK	0090	GL PERSIST	0091	LAND DISP. - II
0092	UAW/GM AUDIT	0093	TSCA - SPECIAL	0095	FIFRA REG MAT
0098	DSL - CANADA	0099	NDSL - CANADA	0102	GM 1000M
0103	CAA SEC. 112(R)	0104	CERCLA-HAZWOPER	0105	GLPPP-SPECIFIC
0106	GLPPP-SPECIFIC	0107	PET. DISTILLATE	0109	APPENDIX IX
0110	GLOBAL WARM CMP	0112	RCRA PBT -DRAFT	0113	IARC-GROUP 2B
0115	IARC-GROUP 1	0116	GMW 3059-RESTR.	0117	GMW 3059-REPORT
0118	T.W. REPORT	0121	HEX CHROME, PB,	0122	ACDM-REPORTING
0123	MDEQ PART 5				

GMBA/PLANT USING THIS FID:

GMBA: 000550678 SPO - DISTRIBUTABLE MATERIALS
CISCO: 17001;
STATUS :ACTIVE

GMBA: 000550790 LAD - LORDSTOWN ASSEMBLY
CISCO: 19078;
STATUS :INACTIVE

GMBA: 000550957 CHEMICAL RISK MANAGEMENT
CISCO: 89150;
STATUS :ACTIVE

GMBA: 000550960 GM DESERT PROVING GROUND
CISCO: 91008;
STATUS :ACTIVE

GMBA: 000556705 ENVIRONMENTAL SYSTEMS HELPDESK
CISCO: 99004;
STATUS :ACTIVE