

Original

INFORMAL QUOTE NO.: IW100084

LEE COUNTY, FLORIDA
PROPOSAL QUOTE FORM
FOR
CONTAINER LUBRICANTS

DATE SUBMITTED: 3/10/2010

VENDOR NAME: Palmdale Oil Company Inc

TO: The Board of County Commissioners
Lee County
Fort Myers, Florida

Having carefully examined the "General Conditions", and the "Detailed Specifications", all of which are contained herein, the Undersigned proposes to furnish the following which meet these specifications:

The undersigned acknowledges
receipt of Addenda numbers: 1

THE BELOW SIGNED QUOTER IS THE:

☒ MANUFACTURER
☐ RE-PACKAGER
☐ MFG. DEALER/AGENT

ITEM NO.	DESCRIPTION	UNIT PRICE	ESTIMATED QUANTITY/EXPENDITURE	MFG
1.	<u>Engine Oil SAE 30</u>			
	a. Quart (plastic)	<u>1.99</u>	quart x 200 quarts = <u>398</u>	<u>TOTAL</u>
	<u>Engine Oil SAE 40</u>			
	a. Quart (plastic)	<u>1.99</u>	quart x 50 quarts = <u>99.50</u>	<u>TOTAL</u>
2.	<u>Engine Oil SAE 15W40 CJ4</u>			
	a. Quart (plastic)	<u>2.25</u>	quart x 1500 quarts = <u>3375</u>	<u>TOTAL</u>
	b. 5 gal. pail	<u>7.50</u>	gal. x 50 gallons = <u>375</u>	<u>TOTAL</u>
	c. 55 gal. drum	<u>6.50</u>	gal x 6600 gallons = <u>42,900</u>	<u>TOTAL</u>

ADDENDUM #1 FOR INFORMAL QUOTE NO.: IW100084

3. Automatic Transmission Fluida. Dexron III, quart (plastic) 2.04 quart x 520 quarts = 1060.80 TOTAL ✓b. Dexron III, 55 gal. drum 6.99 gal. x 1863 gallons = 13,022.37 TOTAL ✓c. Mercon V, quart (plastic) NB quart x 210 quarts = NB NBd. Mercon V, 55 gal. drum 9.05 gal. x 500 gal = 4525 TOTAL ✓e. Transynd Synthetic
Transmission Fluid 55 gal. drum 16.26 gal x 1210 gal = 19,674.60 TOTAL ✓f. Transynd Synthetic
Transmission Fluid Gal. 16.26 gal x 200 gal = 3252 TOTAL ✓4. Chassis Greasea. deliver in tubes 1.79 pound x 1245 lbs = 2228.55 TOTAL ✓b. 120 lb. drum 1.70 pound x 520 lbs = 884 TOTAL ✓d. 400 lb. drum 1.66 pound x 1,200 pound = 1992 TOTAL ✓5. Gear Lubricant - SAE 85W-140a. Quart (plastic) NB quart x 80 quarts = NB NBb. 120 lb. drum 1.197 pound x 600 pounds = 718.20 TOTAL ✓c. 400 lb. drum 1.039 pound x 2400 pounds = 2493.6 TOTAL ✓6. Tractor Hydraulic Fluida. 5 gal. pail 6.88 gal x 500 gal = 3440 TOTAL ✓b. 55 gal. drum 6.51 gal. x 330 gal = 2148.30 TOTAL ✓7. Hydraulic Oil - AW - ISO 68a. 5 gal. pail 6.13 gal. x 300 gal = 1839 TOTAL ✓b. 55 gal. drum 5.11 gal. x 650 gal = 3321.50 TOTAL ✓8. Hydraulic Oil AW-ISO 32a. 55 gal Drum 7.15 gal x 650 gal = 4647.50 TOTAL ✓

ADDENDUM #1 FOR INFORMAL QUOTE NO.: IW100084

9. Wheel Bearing Grease-High Temperaturea. deliver in tubes 1.79 pound x 750 lbs = 1342.50 TOTAL ✓b. 35 lb. pail 1.74 pound x 70 lbs = 121.80 TOTAL ✓10. Two Cycle Engine Oil - TC/W3a. Quart (plastic) 2.46 quart x 200 quarts = 492 TOTAL ✓11. Antifreeze 100%a. Antifreeze to meet or exceed 7.67 gal. x 495 gal = 3796.65 TOTAL ✓
Detroit Diesel and Cummins 55 Gal DrumGRAND TOTAL COST OF ESTIMATED EXPENDITURES (1-11): \$ 118,147.87 ✓

OPTION A:

Engine oil SAE 30 NON-DETERGENT: \$ 1.47 /quarts
(Estimated usage 100 quarts annually)

(Please specify)

OPTION B:

Vendor can provide other product lines for Lee County to utilize on an as needed,
when needed basis.YES ✓ NO _____WILL YOU DELIVER WITH YOUR OWN VEHICLES AS OPPOSED TO COMMON
CARRIER?YES ✓ NO _____

QUOTE SUBMITTALS ARE REQUIRED, SEE PAGE 17.

TO BE DELIVERED WITHIN 1 CALENDAR DAYS AFTER
RECEIPT OF AWARD AND PURCHASE ORDER.Quoters should carefully read all the terms and conditions of the specifications. Any
representation of deviation or modification to the quote may be grounds to reject the
quote.
12A

Are there any modifications to the quote or specifications?
Yes _____ No ✓ _____

Failure to clearly identify any modifications in the space below or on a separate page may be grounds for the quoter being declared nonresponsive or to have the award of the quote rescinded by the County.

MODIFICATIONS:

Quoter shall submit his/her quote on the County's Proposal Quote Form, including the firm name and authorized signature. Any blank spaces on the Proposal Quote Form, qualifying notes or exceptions, counter offers, lack of required submittals, or signatures, on County's Form may result in the Quoter/Quote being declared non-responsive by the County.

ANTI-COLLUSION STATEMENT

THE BELOW SIGNED QUOTER HAS NOT DIVULGED TO, DISCUSSED OR COMPARED HIS QUOTE WITH OTHER QUOTERS AND HAS NOT COLLUDED WITH ANY OTHER QUOTER OR PARTIES TO A QUOTE WHATSOEVER. NOTE: NO PREMIUMS, REBATES OR GRATUITIES TO ANY EMPLOYEE OR AGENT ARE PERMITTED EITHER WITH, PRIOR TO, OR AFTER ANY DELIVERY OF MATERIALS. ANY SUCH VIOLATION WILL RESULT IN THE CANCELLATION AND/OR RETURN OF MATERIALS (AS APPLICABLE) AND THE REMOVAL FROM THE MASTER BIDDERS LIST.

FIRM NAME: Palmdale Oil Company Inc.

BY (Printed): Lachlan Cheetham

BY (Signature): [Signature]

TITLE: President

FEDERAL ID # OR S.S.# 59-2358666

ADDRESS: 2961 Royal Palm Ave

Ft. Myers, FL 33901

PHONE NO.: 239-226-4080

FAX NO.: 239-226-4081

CELLULAR PHONE/PAGER NO.: 561-722-0402

LEE COUNTY LOCAL BUSINESS TAX ACCOUNT NUMBER: _____

E-MAIL ADDRESS: lach@palmdaleoil.com

REVISED: 3/1/07

OPTION B:

SPECIFY ALL OTHER CONTAINER PRODUCT LINES NORMALLY
CARRIED AND CORRESPONDING PRICE PER UNIT BELOW. (ATTACH
ADDITIONAL SHEET IF NECESSARY)

Product shall be delivered to the ordering agency in the appropriate container.

- a. *Call for pricing and product* *SE* \$ _____ / _____
- b. _____ \$ _____ / _____
- c. _____ \$ _____ / _____
- d. _____ \$ _____ / _____
- e. _____ \$ _____ / _____
- f. _____ \$ _____ / _____
- g. _____ \$ _____ / _____
- h. _____ \$ _____ / _____
- i. _____ \$ _____ / _____
- j. _____ \$ _____ / _____

AFFIDAVIT CERTIFICATION
IMMIGRATION LAWSSOLICITATION NO.: IW100084PROJECT NAME: Container Lubricants

LEE COUNTY WILL NOT INTENTIONALLY AWARD COUNTY CONTRACTS TO ANY CONTRACTOR WHO KNOWINGLY EMPLOYS UNAUTHORIZED ALIEN WORKERS, CONSTITUTING A VIOLATION OF THE EMPLOYMENT PROVISIONS CONTAINED IN 8 U.S.C. SECTION 1324 a(e) {SECTION 274A(e) OF THE IMMIGRATION AND NATIONALITY ACT ("INA").

LEE COUNTY MAY CONSIDER THE EMPLOYMENT BY ANY CONTRACTOR OF UNAUTHORIZED ALIENS A VIOLATION OF SECTION 274A(e) OF THE INA. **SUCH VIOLATION BY THE RECIPIENT OF THE EMPLOYMENT PROVISIONS CONTAINED IN SECTION 274A(e) OF THE INA SHALL BE GROUNDS FOR UNILATERAL CANCELLATION OF THE CONTRACT BY LEE COUNTY.**

BIDDER ATTESTS THAT THEY ARE FULLY COMPLIANT WITH ALL APPLICABLE IMMIGRATION LAWS (SPECIFICALLY TO THE 1986 IMMIGRATION ACT AND SUBSEQUENT AMENDMENTS).

Company Name: Palmdale Oil Company Inc.Signature: [Signature]Title: Pres.Date: 3/10/10STATE OF FloridaCOUNTY OF St. Lucie

The foregoing instrument was signed and acknowledged before me this 10th day of March,

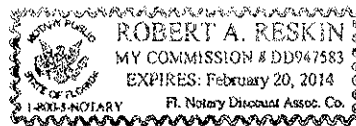
20 10, by Cachlan Cheatham who has produced

(Print or Type Name)

Drivers License

as identification.

(Type of Identification and Number)

Notary Public Signature: [Signature]Printed Name of Notary Public: Robert A. ReskinNotary Commission Number/Expiration: DD947583

The signee of this Affidavit guarantees, as evidenced by the sworn affidavit required herein, the truth and accuracy of this affidavit to interrogatories hereinafter made. **LEE COUNTY RESERVES THE RIGHT TO REQUEST SUPPORTING DOCUMENTATION, AS EVIDENCE OF SERVICES PROVIDED, AT ANY TIME.**

APPENDIX A, 49 CFR PART 20—CERTIFICATION REGARDING LOBBYING
Certification for Contracts, Grants, Loans, and Cooperative Agreements

(To be submitted with each bid or offer exceeding \$100,000)

The undersigned [Contractor] certifies, to the best of his or her knowledge and belief, that:

(1) No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of an agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.

(2) If any funds other than Federal appropriated funds have been paid or will be paid to any person for making lobbying contacts to an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form—LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions [as amended by "Government wide Guidance for New Restrictions on Lobbying," 61 Fed. Reg. 1413 (1/19/96). Note: Language in paragraph (2) herein has been modified in accordance with Section 10 of the Lobbying Disclosure Act of 1995 (P.L. 104-65, to be codified at 2 U.S.C. 1601, *et seq.*)]

(3) The undersigned shall require that the language of this certification be included in the award documents for all subawards at all tiers (including subcontracts, subgrants, and contracts under grants, loans, and cooperative agreements) and that all subrecipients shall certify and disclose accordingly.

This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by 31, U.S.C. § 1352 (as amended by the Lobbying Disclosure Act of 1995). Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure. [Note: Pursuant to 31 U.S.C. § 1352(c)(1)-(2)(A), any person who makes a prohibited expenditure or fails to file or amend a required certification or disclosure form shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such expenditure or failure.]

The Contractor, Palmcoke Oil Company, certifies or affirms the truthfulness and accuracy of each statement of its certification and disclosure, if any. In addition, the Contractor understands and agrees that the provisions of 31 U.S.C. A 3801, *et seq.*, apply to this certification and disclosure, if any.



Signature of Contractor's Authorized Official

Lachar Chantham / Pres.

Name and Title of Contractor's Authorized Official

3/10/10

Date

Certification Regarding Debarment, Suspension, and Other Responsibility Matters

(Contracts over \$100,000).

The contractor certifies, by submission of this bid or proposal, that neither it nor its "principals" as defined in CFR 29.995, or affiliates, as defined at 49 CFR 29.905, are presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this transaction by any governmental department or agency.



Signature of Contractor's Authorized Official

Lachlan Cheetham President

Print Name and Title of Contractor's Authorized Official

Palmdale Oil Company Inc.

Company Name

Date: 3/10/10

RUBIA S



**DIESEL
ENGINES**



TOTAL

HD diesel engine oil monogrades-also used as hydraulic and transmission oils

APPLICATIONS

All types of service

- Premium quality oil formulated to meet the requirements of powershift transmissions
- The appropriate grades may be used as manual transmission, torque converters and hydraulic systems for which motor oils are recommended. The SAE 30, 40 and 50 grades may be used as diesel or fleet engine oils.

PERFORMANCE

OEMs approvals

- API CF/SF
- ACEA E2
- MAN 270 (SAE 30 , 40)
- Mercedes Benz 228.0 (SAE 30 , 40)
- MIL-L-2104E
- MIL-L-46152-D (SAE 30)
- MTU Type 1 (SAE 30, 40)
- ZF TE-ML 03 B (SAE 10), TE-ML04B (SAE 30, 40)
- Meets the requirements of Allison C-3 (SAE 20)

CUSTOMER BENEFITS

High technical performance

- Exceptional detergency and dispersancy
- High chemical stability and resistance to oxidation
- Excellent anti-wear, anti-corrosion, anti-foam and oxidation resistance

CHARACTERISTICS

TYPICAL PROPERTIES—RUBIA S					
SAE Grade	10W	20W	30	40	50
Specific gravity @ 60/60°F	0.874	0.877	0.882	0.884	0.884
Viscosity @ 40°C, cSt (ASTM D 445)	37	55	90	135	193
Viscosity @ 100°C, cSt (ASTM D 445)	6.4	8.5	11.2	14.6	18.5
Viscosity Index (ASTM D 2272)	126	121	112	109	107
Pour point, °F (°C) (ASTM D 97)	-30 (-34)	-20 (-29)	-15 (-26)	5 (-15)	10 (-12)
Flash point °F (°C) (ASTM D 92)	395 (202)	420 (216)	430 (221)	450 (232)	460 (238)
TBN (ASTM D 2896)	10	10	10	10	10
Sulfated Ash, wt% (ASTM D 874)	1.1	1.1	1.1	1.1	1.1

TOTAL Lubricants USA Southwest

TOTAL Lubricants USA, Inc.

400 Chisholm Place, Suite 418,
Plano, Texas 75075
800-442-5823 or 469-241-0950
www.total-usa.com

RUBIA S
Sheet updated: 7/2009

5 North Stiles Street
Linden, NJ 07036
908.862.9300 or 800.526.4127
www.total-us.com

TOTAL Lubricants USA with a policy of continuous improvement, reserves the right to change specifications as our technology progresses.
We are not responsible for the misuse and/or misapplication of our products. MSDS are found on our web sites.

RUBIA TIR 7900, SAE 15W-40



**DIESEL
ENGINES**



TOTAL

High performance heavy-duty diesel engine oil, API CJ-4 /SM

APPLICATIONS

All types of service

- Developed for the newest (post 2007) low emission diesel engines with after-treatment systems using low sulfur or ultra-low sulfur diesel fuel.
- Formulated to meet the most severe servicing conditions for both on and off-highway diesel powered equipment. Recommended for transportation and off-highway equipment such as long- and short-haul delivery trucks, farm tractors, construction equipment, etc.

PERFORMANCE

Specifications

- API CJ-4/SM (API CJ-4, CI-4 Plus, CI-4, CH-4, CG-4, CF/SM)
- ACEA E7/E9

OEMs approvals

Cummins CES 20081; Detroit Diesel 93K218; DDC series 2000 & 4000;
Mack EO-O Premium Plus 07 ; MAN 3275 ; Mercedes Benz-Approval 228.31;
Renault trucks RLD-3 and Volvo VDS-4.
Meets the requirements of Caterpillar ECF-3

CUSTOMER BENEFITS

Increased drain intervals

- Its high performance level allows longer drains intervals over prior API categories for heavy duty diesel engine oil.

High technical performance

- Exceptional anti-wear and anticorrosion properties
- Good efficiency against bore polishing
- Excellent viscosity stability in operation
- High detergency and excellent soot dispersion

CHARACTERISTICS

TYPICAL CHARACTERISTICS--RUBIA TIR 7900 SAE 15W-40

Specific gravity	0.874	Pour point, °F (°C) (ASTM D 97)	-29 (-34)
Viscosity @ 40°C, cSt (ASTM D 445)	118	Flash point °F (°C) (ASTM D 92)	424 (218)
Viscosity @ 100°C, cSt (ASTM D 445)	15.0	Phosphorus (ppm)	< 1200
Viscosity Index (ASTM D 2270)	132	Ash, wt% (ASTM D 874)	1.0
TBN (ASTM D 2896)	10	Sulfur	< 0.4
Cold crank, cps @ -20°C (ASTM D 5293)	< 7000		

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Rubia TIR 7900 15W-40
Sheet updated: 8/2009

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SYNPRO ATF

(Synthetic ATF Fluid)

SYNPRO ATF is a super-premium quality, synthetic automatic transmission fluid. It is suitable for use in a wide array of automatic transmissions.

SYNPRO ATF contains synthetic base stocks and unusual additives. Unlike other automatic transmission fluids, it is designed for use in continuous variable transmissions (CVTs), 5 speed and 6 speed automatic transmissions as well as conventional automatic transmissions.

SYNPRO ATF has extended drain intervals due to its superior oxidation stability, deposit control and shear stability. It has excellent resistance to rust, corrosion and foaming. **SYNPRO ATF** contains a shear stable VI improver along with friction-modifying additives that allow transmissions to shift smoothly, yet attain a positive lockup. **SYNPRO ATF** is specially formulated to eliminate shudder often encountered in transmissions with continuously slipping torque converter clutches.

SYNPRO ATF can be used in 5 or 6 speed automatic transmissions. It may also be used in Allison transmissions calling for Allison TES 295 Fluid.

BENEFITS:

- SUITABLE FOR AUTOMATIC & CONTINUOUSLY VARIABLE SPEED (CVT) TRANSMISSIONS
- BETTER COLD & HIGH-TEMPERATURE PROPERTIES THAN CONVENTIONAL ATF
- LONGER SERVICE LIFE THAN CONVENTIONAL ATF

APPLICATIONS:

SYNPRO ATF is recommended for most automatic transmissions manufactured in Europe, North America or Asia.

It is also recommended for most continuously variable transmissions (CVTs). **SYNPRO ATF** is suitable for use in multiple vehicles for both CVTs and automatic transmissions. It is an ideal fluid for transmission shops.

A Suitability Guide for Vehicles is attached.

TYPICAL CHARACTERISTICS

Product Code	40410
API Gravity (ASTM D-1298) (lbs/gal)	34.9 (7.08 lbs/gal)
Color	Red
Viscosity (ASTM D-445):	
cPs @ -40°C	13,000 max
cSt @ 40°C	32.9
cSt @ 100°C	7.2
Viscosity Index (ASTM D-2270)	180
Pour Point (ASTM D-97) °F (°C)	-46 (-51)
Flash Point (ASTM D-92) °F (°C)	374 (190)

The above data is subject to usual manufacturing variation. For more information and availability, call 1-800-442-LUBE.
11/13/2006



SYNPRO ATF

(Synthetic ATF Fluid)

GUIDELINES AND NOTES:

Development of efficient transmissions by automakers for a variety of vehicles has resulted in a multitude of original equipment manufacturers (OEM) designer fluids for automatic transmissions and CVTs. We are offering our "top of the line fluid", **FINA SYNPRO ATF**, that meets vehicle manufacturers ATF requirements and is backed by our warranty.

LUBRICANTS USA supports the use of **FINA SYNPRO ATF** in a large number of automatic transmissions that are listed below. This fluid has been evaluated in transmissions and we can offer this synthetic fluid as a service fill equivalent for many of these restricted "genuine oils".

In all cases the owner's manual is the final authority and should be consulted whenever there is doubt about the suitability fluid for any of the vehicles listed below, especially for models after 2004. **FINA SYNPRO ATF** is suitable for most transmissions except where noted on the attached Suitability Guide for Vehicles. The newest automatic transmissions may have special fluid requirements especially with design changes in 2004, 2005 or 2006.

This fluid is also suitable for use in Continuous Variable Transmissions (CVTs)!! CVTs can vary in design and use belts or chains in the transmission. Friction is an important parameter in the transmission design, just as it is with conventional automatic transmissions. **FINA SYNPRO ATF** has a special friction additive, which makes it suitable replacement for ATF as well as the following CVT fluids:

- Acura or Honda (Honda CVT Fluid)
- Audi (CVT Transmission fluid)
- Nissan (genuine Nissan CVT fluid)
- Saturn (Dex-CVT)

Note that the fluid viscosity for genuine fluids or licensed fluids may or may not differ from **FINA SYNPRO ATF** in viscosity at operating temperature. **SYNPRO ATF** has a typical viscosity (7.2 cSt at 100C) that meets Dexron® III and Mercon® viscosity requirements. Furthermore its viscosity at 100 C is in between Mercon® SP (5.5 to 6.0 cSt) or Dexron® VI (6.0 cSt typical, 6.8 maximum) and Allison TES 295 (7.6 cSt). It contains a shear stable VI improver and hence remains in grade during its life, unlike Dexron® III-H or Mercon®. In this regard it is like genuine ATF fluids such as TES 295 fluid or Chrysler ATF+3® or +4® that contain shear stable polymers.



SYNPRO ATF

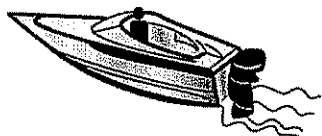
SUITABILITY GUIDE FOR VEHICLES*

Allison—C-3 fluid, C-4 fluid, TES 295 fluid
Alpha Romero
American Motors
Audi -- ZF Specs (5HP19FL, FLA, 5HP-24A).
BMW -- ZF Specs, (5HP18FL, 5HP30, 5HP24)
Caterpillar-- TO-2
Chrysler-- ATF+3® or ATF+4®
Chrysler—except 2004 Crossfire (may not be suitable—requires Shell 3403 ATF)
Daewoo
Dexron®, Dexron® II and Dexron® III
DIWA
Esso--LT 71141**
Fiat
Ford or Ford Trucks--Mercon®, Ford Mercon® V, Ford Type F
Ford Specs M2C-33 (all), M2C-138 CJ, M2C-166-H
Geo
Hyundai
Honda-- ATF-Z1
Infiniti
Isuzu
Jaguar-- ZF spec (5HP24).
Jeep
KIA
Lexus
Mazda
MAN 339F
Mercedes Benz-- specs 236.3 (PSF), 236.5 (C-4), 236.7, 236.8, 236.81, 236.9, 236.11
and ZF spec 4HP20
Mini (may not be suitable)
Mitsubishi-- Diamond SP-II or SP-III
Nissan-- Matic D, Matic J, Matic K
Opel
Peugeot-- ZF Spec 4HP20. (Others may not be suitable)
Porsche-- ZF Spec 5HP19FL
Renault
Saab (Check manual for recent models)
Saturn
Shell --LA 2634** (BMW).
Shell—LA 3403 (not suitable)
Subaru
Toyota--Type T, T-III or T-IV
Volkswagen-- FLA, ZF spec 5HP19FL, TL 521-62,
Voith—G-607, ZF spec TEMPL 11/14 Commercial, Ecomat & torque converter transmissions
Volvo—ZF spec TLML 09/11

* ZF has multiple specifications for transmission fluids.

** Unique factory fill fluids here are identified by factory fill oil vendors such as Shell or Esso.

NEPTUNA 2T SUPER SPORT



TC-W³



Water cooled 2-cycle outboard engine oil

APPLICATIONS

2-stroke engines

NEPTUNA 2T SUPER SPORT is specially formulated for pleasure craft engines that are water cooled. Mixing of the oil with the fuel should be in accordance with the manufacturer's recommendations.

PERFORMANCE

OEM approvals

NMMA TC-W3 officially approved. RL-00288J

Other OEMs

Conforming to the manufacturer's recommendations including:
Johnson, Mariner, Mercury, Suzuki, Yamaha...

CUSTOMER BENEFITS

High technical
performance

- Fortified detergent capability prevents clogging of ports, ring sticking and spark plug fouling
- Increased lubrication capacity which prevents seizure
- Anti-rust and anti-corrosion properties protect engines during prolonged periods of layup.

CHARACTERISTICS

TYPICAL CHARACTERISTICS—NEPTUNA 2T SUPER SPORT	
Density at 15°C, (ASTM D 1298)	0.863
Viscosity, cSt @ 100°C (ASTM D 445)	8.2
Viscosity, cSt @ 40°C (ASTM D 445)	54.5
Color, visual	Blue
Flash point °C (°F) ASTM D 92	138 (280)
Pour point °C (°F) ASTM D 97	-36 (-33)
Sulfated ash	Nil
NMMA certification number	RL-00288J

TOTAL Lubricants USA Southwest

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Neptuna 2T Super Sport
Sheet updated: 9/2009

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TOTAL Lubricants USA has a policy of continuous improvement and reserves the right to change specifications as our technology progresses.
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AZOLLA ZS



LUBRICATION



TOTAL

High viscosity index anti-wear hydraulic oil

APPLICATIONS

Hydraulic systems.

- **AZOLLA ZS** oils are premium anti-wear hydraulic fluids and lubricants. They meet or exceed the requirements of the leading manufacturers of hydraulic equipment and are available in a wide range of viscosities from ISO 22 to ISO 150.
- **AZOLLA ZS** oils have been specifically designed to be used in all types of hydraulic pumps and motors that require the use of anti-wear hydraulic oils. The appropriate viscosity grade will provide excellent service in plain and anti-friction bearings and moderate service in gear reducers.

SPECIFICATIONS

International specifications

- AFNOR E48603 CATEGORY HM
- CINCINNATI MACHINE P68, P69, P70
- DENISON HF-0, HF-1, HF-2
- DIN 51524 PART 2 CATEGORY HLP
- ISO 6743/4 CATEGORY L-HM
- VICKERS I-286-S, M-2950-S

ADVANTAGES

Long equipment life and high operating reliability.

- High resistance to oxidation and thermal degradation.
- Excellent anti-wear properties.
- Inert towards metals (non-staining and no corrosive wear).
- Good compatibility with elastomers and seals.
- Excellent water-oil separation properties.
- Excellent anti-foaming, anti-corrosion, and anti-oxidation properties.

CHARACTERISTICS

TYPICAL CHARACTERISTICS--AZOLLA ZS

	22	32	46	68	100	150
Viscosity at 40°C, cSt (ASTM D 445)	22.0	32.0	46.0	68.0	100.0	150.0
Viscosity at 100°C, cSt (ASTM D 445)	4.2	5.3	6.2	8.7	11.1	14.2
Viscosity Index (ASTM D 2270)	> 95	> 95	> 95	> 95	> 95	> 95
Density @ 60°F, lbs./gal.	7.19	7.24	7.28	7.30	7.35	7.38
Specific Gravity @ 60/60°F	0.861	0.867	0.872	0.874	0.881	0.884
Pour Point, °F (°C) (ASTM D 97)	-20 (-29)	-20 (-29)	-20 (-29)	-15 (-26)	0 (-18)	0 (-18)
Flash Point, COC, °F (°C) (ASTM D 92)	400 (204)	405 (207)	410 (210)	430 (221)	475 (226)	485 (252)
Copper Strip Corrosion (ASTM D 130)	1A	1A	1A	1A	1A	1A
4 Ball Wear Test, mm (ASTM D 2266) (75°C, 40kg, 1 hr @ 1200rpm)	0.45	0.45	0.45	0.45	0.45	0.45
Oxidation Test (ASTM D 943)	3000	3000	2800	2500	2000	1500

TOTAL Lubricants USA Southwest

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AZOLLA ZS
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TRANSMISSION MDL NA



TOTAL

Heavy duty thermally-stable API GL-5/MT-1 gear oil

APPLICATIONS

Types of service

- Hypoid, spiral-bevel, spur and helical gears
- All heavy duty truck rear axles
- Most manual steering gear boxes where GL-5 gear oil is specified.
- Some heavy duty manual transmissions with oil-lubricated wheel bearings
- Non-synchronized manual transmission where API MT-1 oils are recommended
- All rear axles of rear drive automobiles
- Most automotive manually shifted transmissions

PERFORMANCE

Specifications

- API GL-5
- API MT-1
- Mack GO-H or GO-J
- MIL-L-2105C/D/E or MIL-PRF-2105E

CUSTOMER BENEFITS

High technical performance

- Thermally stable gear oil chemistry
- Protects heavily loaded and stressed gearsets against wear, scuffing and scoring.
- Wide operating temperature range
- Oxidation, rust and corrosion inhibited
- Foam resistant

CHARACTERISTICS

TYPICAL PROPERTIES--TRANSMISSION MDL NA			
SAE Grade		80W-90	85W-140
Density at 60 °F			
Viscosity @ 40 °C, cSt	ASTM D-445	142	353
Viscosity @ 100 °C, cSt	ASTM D-445	14.3	26.8
Viscosity index	ASTM D-2270	98	101
Flash point, °F (°C)	ASTM D-93	425 (218)	435 (224)
Brookfield viscosity, cps	ASTM D-2983	84,000@-26 °C	57,000 @ -12 °C
Pour Point °F (°C)	ASTM D-97	-17 (-27)	0 (-20)
Canadian Channel point	-	Below -31 F	Below -4 F
Timken OK Load, lbs	ASTM D-2783	60	60
4-ball EP weld point, kg	ASTM D 2783	400	400

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Transmission MDL NA
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DYNATRANS MP



TOTAL

Lubricant for transmission systems, hydraulic circuits and oil-bath disc brakes fitted to agricultural tractors, construction machinery and handling systems.

APPLICATIONS

Transmission systems

Hydraulics

Submerged brakes

- Lubrication of mechanical transmission systems requiring a GL4 product.
- Lubrication of automatic transmission systems, torque converters and hydrostatic transmissions.
- Lubrication of power take-offs.
- Application to all hydraulic circuits.
- Lubrication of power-assisted steering systems.
- Lubrication of wet brakes with cellulose liners.

PERFORMANCES

Classifications

Meets manufacturers' specifications

API GL-4

JOHN DEERE JDM J 20A / J20C
FORD M2C 134D / FHNA 2C 201.00
CASE MS 1206 / 1207

CUSTOMER BENEFITS

Wide range of applications

Long component life

- Equally suitable for agricultural machinery and for construction machinery, meaning fewer lubricants need be stocked.
- Excellent low temperature performance (protects friction discs against any risk of binding).

SPECIFICATIONS

DYNATRANS MP	Units	
Kinematic viscosity at 40°C	mm ² /s (cSt)	63
Kinematic viscosity at 100°C	mm ² /s (cSt)	10.8
Viscosity number		153
Pour point	°C	-33

The values of the specifications shown in this table are given as an indication only.

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DYNATRANS MP
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International Product Data Sheet

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MULTIS EP NA



GREASE



TOTAL

Multi-purpose, lithium grease

APPLICATIONS

Multi-purpose,
extreme pressure
industrial & automotive
grease

- **MULTIS EP NA GREASES** are high quality lithium greases designed for the economical lubrication of all applications operating under severe conditions.
- **MULTIS EP NA GREASES** are multi-purpose greases available in a wide range of grades. They are formulated for the lubrication of ball bearings, plain bearings, and roller bearings subjected to impacts and vibrations in transportation, agriculture, and off-road vehicles. These greases are also suitable for general purpose industrial applications requiring a NLGI 2 grade, extreme pressure grease. Always avoid contamination of the grease by dust and/or dirt when applying. Preferably use a pneumatic pump system or cartridges.

SPECIFICATIONS

- ISO 6743-9: L-XBEBB-2
- DIN 51502: KP2P-20
- NLGI LB (#2 grade)

ADVANTAGES

Multipurpose

Multiple grades

No harmful substances

- Multiple grades meet a wide variety of requirements and applications.
- Miscible with the majority of other conventional soap greases.
- Durable and resistant to water, pollution, and temperature variations.
- Very good adhesion to metals.
- Good mechanical and thermal stability.
- Excellent anti-rust and anti-corrosion properties.
- Does not contain lead or any other heavy metals harmful to humans or the environment.

TYPICAL CHARACTERISTICS MULTIS EP NA GREASES

NLGI Grade	000	00	0	1	2
Visual appearance, smooth amber grease	Yes	Yes	Yes	Yes	Yes
Thickener type, lithium 12-hydroxy stearate	Yes	Yes	Yes	Yes	Yes
Penetration worked 60x ASTM D 217	460	430	385	330	280
Dropping point, °F (°C) ASTM D 2265	320 (160)	360 (182)	360 (182)	360 (182)	360 (182)
4 ball weld load, kg. ASTM D 2596	250	250	250	250	250
Timken OK load, lbs ASTM D 2509	-	45	45	60	60
Base oil viscosity @ 40°C, cSt ASTM D 445	320	160	180	180	180
Estimated operating range, °F	-20 to 290	-20 to 290	-10 to 290	0 to 290	0 to 290

TOTAL Lubricants USA Southwest

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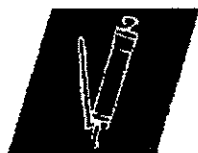
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Multis EP NA Greases
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MULTIS COMPLEX EP



GREASE



TOTAL

Multi-purpose, lithium complex grease

APPLICATIONS

Multi-purpose,
extreme pressure
industrial & automotive
grease

- **MULTIS COMPLEX EP GREASES** are designed for the lubrication of all applications operating under severe conditions, particularly under high load and high temperature conditions in which conventional lithium soap grease is no longer sufficient.
- **MULTIS COMPLEX EP GREASES** are multi-purpose greases, specially formulated for the lubrication of ball bearings, plain bearings, and roller bearings subjected to impacts and vibrations in transportation, agriculture, and off-road vehicles. These greases are also suitable for general purpose industrial applications requiring a NLGI 2 grade, high temperature, extreme pressure grease. Always avoid contamination of the grease by dust and/or dirt when applying. Preferably use a pneumatic pump system or cartridges.

SPECIFICATIONS

- ISO 6743-9: L-XBGHB-2 and L-XBGHB-1
- DIN 51502: KP2P-20 and KP1P-30
- NLGI GC-LB (#2 grade)

ADVANTAGES

Durable lubricant film

No harmful substances

- Meets a wide variety of requirements and applications.
- Miscible with the majority of other conventional soap greases.
- Durable and resistant to water, pollution, and temperature variations.
- Very good adhesion to metals.
- Good mechanical and thermal stability.
- Excellent anti-rust and anti-corrosion properties.
- Does not contain lead or any other heavy metals harmful to humans or the environment.

TYPICAL CHARACTERISTICS MULTIS COMPLEX EP GREASES

NLGI Grade	1	2
Appearance, visual	Smooth, slightly tacky, blue	Smooth, slightly tacky, blue
Thickener type	Lithium Complex	Lithium Complex
Penetration worked, 60x (ASTM D 217)	320	280
Dropping point, °F (°C) ASTM D 2265	500 (260)	530 (278)
4 ball weld load, kg. ASTM D 2596	250	250
SKF EMCOR anti-rust test DIN 51 802	0-0	0-0
Base oil viscosity @ 40°C, cSt ASTM D 445	145	160
Estimated operating range, °F	-15 - 325	0 - 325

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FLUIDMATIC SYN NA



TOTAL

Multi-vehicle ATF for most foreign and domestic vehicles

APPLICATIONS

Types of service

- **FLUIDMATIC SYN NA** is a high performance automatic transmission fluid designed to meet the requirements of most cars and SUV's sold by US and foreign OEM's.
- **FLUIDMATIC SYN NA** is recommended wherever Allison C-4 fluids are required. It may be used in hydraulic systems as a wide range hydraulic fluid or it may be used as a low to medium quality rotary air compressor fluid.
- Always consult your owner's manual for its suitability as ATF in imported vehicles.

PERFORMANCE

Transmission builders

Allison C-4; Voith G607; ZF TE-ML 03D, 04D, 09, 14A, 14B, 16L, 17C

Vehicle listings

SUITABLE FOR MULTIPLE VEHICLES

See separate page for guidelines and suitability for use listings.

CUSTOMER BENEFITS

High technical performance

- Exceptional cleanliness of delicate control valves resulting in trouble-free transmission performance.
- High viscosity index gives excellent performance over a wide temperature range.
- Proper frictional properties provide the required shift feel characteristics.
- Excellent anti-wear, anti-corrosion, anti-foam and oxidation resistance.
- Excellent low temperature fluidity protects against wear under extremely cold operating conditions.

CHARACTERISTICS

TYPICAL TEST PROPERTIES--FLUIDMATIC SYN NA	
Viscosity, cSt @ 40°C ASTM D-445	35
Viscosity, cSt @ 100°C ASTM D-445	6.8
Viscosity index ASTM D-2270	133
Brookfield viscosity, cP @ -40°C (-40°F) ASTM D-2983	11,000
Pour point, °C (°F) ASTM D-97	-48 (-55)
Flash point, °C (°F) ASTM D-92	202 (395)
Color, visual	Red

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Fluidmatic SYN NA
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GUIDELINES AND "SUITABLE FOR USE" NOTES

Development of efficient transmissions by automakers for a variety of vehicles has resulted in a multitude of OEM designer fluids for automatic transmissions. TOTAL Lubricants USA Southwest does not offer these specialty "designer" or factory fill "genuine" oils for the wide number of ATF in the marketplace due to their restricted availability by the OEM. However we are offering a fluid, **FLUIDMATIC SYN NA** that vehicle manufacturers have neither evaluated nor approved.

Therefore, TOTAL Lubricants USA Southwest supports the use of **FLUIDMATIC SYN NA** in a large number of automatic transmissions that are listed below. This fluid has been evaluated in transmissions and we can offer this fluid as a service fill equivalent for many of these restricted "genuine oils".

In all cases the owner's manual is the final authority and should be consulted whenever there is doubt about the fluid for any of the vehicles listed below. **FLUIDMATIC SYN NA** is suitable for most models before 2003 and many current models except where noted. This fluid should not be used in Continuous Variable Transmissions (CVTs) or in older (Ford) transmissions requiring Ford ATF Type F. Viscometric requirements that are not met have an asterick by them. Use of **FLUIDMATIC SYN NA** as a substitute in transmissions calling for the lower viscosity fluid will not give optimum performance.

Aisin Warner AW-1*

Allison C4, TES 389,
Audi part # G 052-025-A2
Part # G 052-162-A1
Except for Audi 2003+ model TT
(Please check manual)
BMW (Suitable for most models).
7045E, 71141 (or LT 71141)
LA 2634
Please check manual.
Caterpillar TO-2
Chrysler ATF+3® or ATF+4®
Chrysler 2004 Crossfire (NO PRODUCT)
Daewoo
Dexron®, Dexron® II, Dexron® II-D,
Dexron® III-G and Dexron® III-H,
Dexron VI*
Esso LT 71141
Ford Mercon®, Mercon® V,
Mercon® SP*, Mercon® LV*
Ford trucks (Suitable for most models except 2004
with 5-speed. Please check manual)
Geo
Hyundai SP-II, SP-III, NWS-9638
Honda ATF-Z1 fluid (But not CVTs)
Idemitsu K 17
Infiniti (Suitable for many models. Check manual
for 2002, 2003 and 2004 models)
Isuzu
Jaguar (Suitable for most models. Check manual)
JASO 1A

JWS 3309 and JWS 3324*

KIA SP II and SP III
Lexus (Check manual for 2004 models)
MAN 339F
339 V1 and 339 V2
339 Z1 and 339 Z2,
Mazda ATF-M III, ATF-MV
Mercedes Benz 236.1, 236.2, 236.5, 236.6, 236.7
236.9, 236.10, 236.11
236.12 (NOT SUITABLE)
Mini (NOT SUITABLE)
Mitsubishi Diamond SP-II or SP-III
Nissan (Check manual for 2003 or 2004 models)
Matic D, Matic J, Matic K
Porsche before 2001 (Check manual)
Saab 93-165 147 (Check manual for 2002, 2003
and 2004 models)
Saturn (Suitable for most models. Check manual)
Shell 3403, LA 2634
Shell M-1375 (NOT SUITABLE)
Subaru ATF
Texaco ETL-7045E, ETL-8072B, N-402, JW 3309
Toyota (Check manual for 2004 models) Type T,
Type T-III or T-IV,
WS* (= JWS 3324*)
Voith 55.6335 (G 607),
55.6336 (G1363)
Volkswagen G-052 025-A2, G-052 162-A1
Volvo (Suitable for most models. Check manual)
97340
ZF TE-ML 03D, 04D, 09, 14A, 14B, 16L, 17C

***Bolded** ATF fluids with an asterick have a different viscosity limits than **FLUIDMATIC SYN NA**.

FLUID NA H3



TOTAL

D/M Multi-Purpose ATF for most 1979-2007 GM, Ford vehicles

APPLICATIONS

Types of service

- **FLUID NA H3** is recommended for wherever DEXRON® III, DEXRON® II, DEXRON® II-E or Type A fluids are recommended; or wherever MERCON® M2C138-CJ or M2C166-H fluids are called for.
- **FLUID NA H3** is recommended for applications calling for Allison C-4 fluid and it may be used as "top-off" fluid in automatic transmissions built by Chrysler.
- Other common applications are its in hydraulic systems as a wide range hydraulic fluid or as a low to medium quality rotary air compressor fluid.
- Consult your owner's manual regarding its suitability as ATF in imported vehicles.

PERFORMANCE

Specifications

- Allison C-4
- Meets Allison TES 389 (approval pending)
- Ford M2C138-CJ, and M2C166-H
- GM transmissions calling for Dexron® III-H

CUSTOMER BENEFITS

High technical performance

- Exceptional cleanliness of delicate control valves resulting in trouble-free transmission performance.
- High viscosity index gives excellent performance over a wide temperature range.
- Proper frictional properties provide the required shift feel characteristics.
- Excellent anti-wear, anti-corrosion, anti-foam and oxidation resistance.
- Excellent low temperature fluidity protects against wear under extremely cold operating conditions.

CHARACTERISTICS

PROPERTY	Test Method	FLUID NA H3
Color	Visual	Red
Viscosity, cP @ -20°C (-4°F)	ASTM D-2983	1400
Viscosity, cP @ -35°C (-31°F)	ASTM D-2983	15000
Viscosity, cSt @ 100°C:	ASTM D-445	7.2
Viscosity Index	ASTM D-2270	175
Pour Point, °C (°F)	ASTM D-97	-48 (-55)
Flash Point, °C (°F)	ASTM D-93	220 (428)

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Fluid NA H3
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MATERIAL SAFETY DATA SHEET FOR RUBIA S OILS (All grades)

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TOTAL Lubricants USA, Inc.
5 N. Stiles Street
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REVISION DATE

DATE ISSUED
1-June 2009

PROTECTION AND PRECAUTIONS

VENTILATION: (Always maintain below permissible exposure limits.)
Use local exhaust to capture vapor, mist or fumes, if necessary. Provide ventilation sufficient to prevent exceeding recommended exposure limit or buildup of explosive concentrations of vapor in air.

RESPIRATORY PROTECTION: (Use only NIOSH approved equipment.)
Normally not needed at ambient temperatures. Use supplied air respiratory protection in confined or enclosed spaces, if needed. Use filter, dust, fume, or mist respirator type under misting conditions. Use can or cartridge; gas or vapor respirator type under conditions exceeding TWA standard.

PROTECTIVE GLOVES:
Use chemical-resistant gloves, if needed, to avoid prolonged or repeated skin contact.

EYE PROTECTION:
Use splash goggles or face shield when eye contact may occur.

OTHER PROTECTIVE EQUIPMENT:
Use chemical-resistant apron or other impervious clothing, if needed, to avoid contaminating regular clothing which could result in prolonged or repeated skin contact.

WORK PRACTICES/ENGINEERING CONTROLS:
Keep containers closed when not in use. Do not handle near heat, sparks, flame or strong oxidants.

PERSONAL HYGIENE:
Minimize breathing vapor, mist, or fumes. Avoid prolonged or repeated contact with skin. Remove contaminated clothing; launder or dry-clean before reuse. Remove contaminated shoes and thoroughly clean before reuse; discard if oil-soaked. Cleanse skin thoroughly after contact, before breaks and meals, and at end of work period. Product is readily removed from skin by waterless hand cleaners followed by washing thoroughly with soap and water.

PREPARED BY: Alan Denniston VP PRODUCT MANAGEMENT

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REVISION DATE

DATE ISSUED
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BOILING RANGE:
Not available

VAPOR PRESSURE:
< 0.1 mmHg @ 20°C

SPECIFIC GRAVITY (25°C/25°C):
(WATER = 1)
< 1.0

VAPOR DENSITY (AIR = 1):
> 5

MOLECULAR WEIGHT:
Wide range

PERCENT VOLATILE BY VOLUME:
Negligible

EVAPORATION RATE @ 1 ATM. AND 25°C
(77°F) (n-BUTYL ACETATE = 1):
Not available

SOLUBILITY IN WATER @ 1 ATM. and 25°C
(77°F):
Nil

REACTIVITY

This product is stable and will NOT react violently with water. Hazardous polymerization will not occur. Avoid contact with strong oxidants such as liquid chlorine, concentrated oxygen, sodium hypochlorite or calcium hypochlorite, etc., as this represents an explosion hazard.

DECOMPOSITION PRODUCTS UNDER FIRE CONDITIONS:

Fumes, smoke, carbon monoxide, and other decomposition products, in case of incomplete combustion.

CONDITIONS TO AVOID:

Open flames.

TOXICITY

ORAL (Acute)	N/E
DERMAL (Acute)	N/E
EYE	N/E
INHALATION (Acute)	N/E
CHRONIC, SUBCHRONIC, ETC.	N/E

Medical Conditions Aggravated by Exposure: Unknown

This product does NOT contain any ingredients identified as carcinogenic by IARC, NTP, or OSHA.

All components known to be contained in this product are on the TSCA inventory or are exempt.

SARA Section 313 Status: This material is not known to contain any chemicals on the SARA Section 313 list at a concentration greater than 1.0 percent or carcinogenic chemical on that list at a concentration greater than 0.1 percent.

SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Keep product out of sewers and watercourses by diking or impounding. Absorb with sand or inert material. Sweep or scoop up and remove. Prevent spread of spill. Advise authorities if product has entered or may enter sewers, watercourses or extensive land areas. Assure conformity with local regulations.

WASTE DISPOSAL METHOD: (Consult federal, state, or local authorities for proper disposal procedures.) Assure conformity with applicable disposal regulations. Dispose of absorbed material at an approved waste site or facility.

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FIRE AND EXPLOSION HAZARD INFORMATION

FLASH POINT (MINIMUM):

>204°C (>400°F) Test method: COC

AUTOIGNITION TEMPERATURE:

N/E

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) - HAZARD IDENTIFICATION:

Health	Flammability	Reactivity
1	1	0

FLAMMABLE OR EXPLOSIVE LIMITS (approximate percent by volume in air):

Estimated values: lower N/E upper N/E

EXTINGUISHING MEDIA AND FIRE FIGHTING PROCEDURES:

Foam, water spray (fog), dry chemical, carbon dioxide and vaporizing liquid type extinguishing agents may all be suitable for extinguishing fires involving this type product, depending on size or potential size of fire and circumstances related to the situation. Water or foam may cause frothing. Use water to keep fire-exposed containers cool. Water froth may be used to flush spills away from exposure. Minimize breathing gases, vapor, fumes, or decomposition products. Use supplied-air breathing equipment for enclosed or confined spaces or as otherwise needed.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

n/a

"EMPTY" CONTAINER WARNING:

Empty containers retain residue (liquid or vapor) and can be dangerous. DO NOT PRESSURIZE, WELD, CUT BRAZE, SOLDER, DRILL, GRIND OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, OR OTHER SOURCES OF IGNITION; THEY MAY EXPLODE AND CAUSE INJURY OR DEATH. Do not attempt to clean since residue is difficult to remove. "Empty" drums should be completely drained, properly bunged, and returned to a drum reconditioner. All other containers should be disposed of in an environmentally safe manner and in accordance with government regulations.

HEALTH AND HAZARD INFORMATION

EXPOSURE LIMIT FOR TOTAL PRODUCT: Monitor data listed in the Components and Hazard Information section.

VARIABILITY AMONG INDIVIDUALS:

Health studies have shown that many petroleum hydrocarbons and synthetic lubricants pose potential human health risks which vary from person to person. As a precaution, exposure to liquids, vapors, mists, or fumes should be minimized.

EFFECTS OF OVEREXPOSURE (Signs and symptoms of exposure):

Prolonged or repeated skin contact with this product tends to remove skin oils possibly leading to irritation and dermatitis.

Product contacting the eye may cause irritation.

Product has a low order of oral and dermal toxicity.

Possible aspiration hazard.

Induced vomiting may cause aspiration of product into the lungs.

(See Emergency First Aid Section).

PHYSICAL DATA

The following data are approximate or typical values and should not be used for precise design purposes.

MATERIAL SAFETY DATA SHEET FOR RUBIA S OILS (All grades)

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DATE ISSUED
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IDENTIFICATION AND EMERGENCY INFORMATION

PRODUCT NAME: RUBIA S (SAE 10 TO 50) PRODUCT #: 1-11810, 1-11820, 1-11830, 1-11840, 1-11850
CHEMICAL NAME: N/A - Mixture CAS #'S: Mixture
PRODUCT APPEARANCE AND ODOR: Viscous liquid, petroleum odor CHEMICAL FAMILY: N/A
SYNONYMS: Heavy duty motor oil (monogrades) EMERGENCY TELEPHONE: 1-800-442-5823 or 1-908-862-9300

COMPONENTS AND HAZARD INFORMATION

COMPONENTS: W/W HAZARD DATA (TLV, LD50, LC50, ETC.):
Petroleum based lubricating oil 5 mg/m3 TWA (OSHA, ACGIH)
CAS# 64742-54-7, 64742-65-0, (as an oil mist)
64741-89-5, 64741-88-4*

* Paraffinic base oil used are not limited to but include these CAS numbers.

Additives, non-hazardous n/e

HAZARDOUS MATERIALS IDENTIFICATION SYSTEM (HMIS):
Health Flammability Reactivity
1 1 0

TRANSPORTATION INFORMATION

TRANSPORTATION/SHIPPING INFORMATION:

Department of Transportation (DOT): Not regulated

EMERGENCY FIRST AID

EYE CONTACT:
If splashed into the eyes, flush with clear water for 15 minutes or until irritation subsides. If irritation persists, call a physician.

SKIN CONTACT:
In case of skin contact, remove contaminated clothing and wash skin thoroughly with soap and water.

INHALATION:
Vapor pressure is very low. Vapor inhalation under ambient conditions is normally not a problem. If overcome by vapor from hot product, immediately remove from exposure and call a physician. If breathing is irregular or has stopped, start resuscitation; administer oxygen if available. If overexposure to oil mist, remove from further exposure until excessive oil mist condition subsides.

INGESTION:
If ingested, do not induce vomiting. Call a physician immediately.

MATERIAL SAFETY DATA SHEET FOR RUBIA TIR 7900 SAE 15W-40

TOTAL Lubricants USA Southwest
400 Chisholm Place, Suite 418
Plano, Texas 75075

TOTAL Lubricants USA, Inc.
5 N. Stiles Street
Linden NJ 07036

REVISION DATE
N/A

DATE ISSUED
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authorities if product has entered or may enter sewers, watercourses or extensive land areas. Assure conformity with local regulations.

WASTE DISPOSAL METHOD: (Consult federal, state, or local authorities for proper disposal procedures.)

Assure conformity with applicable disposal regulations. Dispose of absorbed material at an approved waste site or facility.

PROTECTION AND PRECAUTIONS

VENTILATION: (Always maintain below permissible exposure limits.)
Use local exhaust to capture vapor, mist or fumes, if necessary. Provide ventilation sufficient to prevent exceeding recommended exposure limit or buildup of explosive concentrations of vapor in air.

RESPIRATORY PROTECTION: (Use only NIOSH approved equipment.)
Normally not needed at ambient temperatures. Use supplied air respiratory protection in confined or enclosed spaces, if needed. Use filter, dust, fume, or mist respirator type under misting conditions. Use can or cartridge; gas or vapor respirator type under conditions exceeding TWA standard.

PROTECTIVE GLOVES:
Use chemical-resistant gloves, if needed, to avoid prolonged or repeated skin contact.

EYE PROTECTION:
Use splash goggles or face shield when eye contact may occur.

OTHER PROTECTIVE EQUIPMENT:
Use chemical-resistant apron or other impervious clothing, if needed, to avoid contaminating regular clothing which could result in prolonged or repeated skin contact.

WORK PRACTICES/ENGINEERING CONTROLS:
Keep containers closed when not in use. Do not handle near heat, sparks, flame or strong oxidants.

PERSONAL HYGIENE:
Minimize breathing vapor, mist, or fumes. Avoid prolonged or repeated contact with skin. Remove contaminated clothing; launder or dry-clean before reuse. Remove contaminated shoes and thoroughly clean before reuse; discard if oil-soaked. Cleanse skin thoroughly after contact, before breaks and meals, and at end of work period. Product is readily removed from skin by waterless hand cleaners followed by washing thoroughly with soap and water.

PREPARED BY: Alan Denniston VP PRODUCT MANAGEMENT

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PHYSICAL DATA

The following data are approximate or typical values and should not be used for precise design purposes.

BOILING RANGE:
Not available

VAPOR PRESSURE:
Not available

SPECIFIC GRAVITY (25°C/25°C):
(WATER = 1)
< 1.0

VAPOR DENSITY (AIR = 1):
> 5

MOLECULAR WEIGHT:
Wide range

PERCENT VOLATILE BY VOLUME:
Not calculated

EVAPORATION RATE @ 1 ATM. AND 25°C
(77°F) (n-BUTYL ACETATE = 1):
Not available

SOLUBILITY IN WATER @ 1 ATM. and 25°C
(77°F): Negligible

REACTIVITY

This product is stable and will NOT react violently with water. Hazardous polymerization will not occur. Avoid contact with strong oxidants such as liquid chlorine, concentrated oxygen, sodium hypochlorite or calcium hypochlorite, etc., as this represents a serious explosion hazard.

DECOMPOSITION PRODUCTS UNDER FIRE CONDITIONS:

Fumes, smoke, carbon monoxide, oxides of sulfur, and other decomposition products, in case of incomplete combustion.

CONDITIONS TO AVOID:

Open flames.

TOXICITY

ORAL (Acute)

N/E

DERMAL (Acute)

N/E

EYE

N/E

INHALATION (Acute)

N/E

CHRONIC, SUBCHRONIC, ETC.

N/E

Medical Conditions Aggravated by Exposure: Unknown

This product does NOT contain any ingredients identified as carcinogenic by IARC, NTP, or OSHA.

All components known to be contained in this product are on the TSCA inventory or are exempt.

SARA Section 313 Status: This material is not known to contain any chemicals on the SARA Section 313 list at a concentration greater than 1.0 percent or carcinogenic chemical on that list at a concentration greater than 0.1 percent.

SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Keep product out of sewers and watercourses by diking or impounding. Absorb with sand or inert material. Sweep or scoop up and remove. Prevent spread of spill. Advise

MATERIAL SAFETY DATA SHEET FOR RUBIA TIR 7900 SAE 15W-40

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N/A

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FIRE AND EXPLOSION HAZARD INFORMATION

FLASH POINT (MINIMUM):
> 350°F Test method: COC

AUTOIGNITION TEMPERATURE:
N/E

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) - HAZARD IDENTIFICATION:

Health	Flammability	Reactivity
1	1	0

FLAMMABLE OR EXPLOSIVE LIMITS (approximate percent by volume in air):
Estimated values: lower n/e upper n/e

EXTINGUISHING MEDIA AND FIRE FIGHTING PROCEDURES:

Foam, water spray (fog), dry chemical, carbon dioxide and vaporizing liquid type extinguishing agents may all be suitable for extinguishing fires involving this type product, depending on size or potential size of fire and circumstances related to the situation. Plan fire protection and response strategy through consultation with local fire protection authorities or appropriate specialists.

The following procedures for this type of product are based on the recommendations in the National Fire Protection Association's "Fire Protection Guide on Hazardous Materials", Eighth Edition (1984):

Use water spray, dry chemical, foam, or carbon dioxide. Water or foam may cause frothing. Use water to keep fire-exposed containers cool. Water froth may be used to flush spills away from exposure. Minimize breathing gases, vapor, fumes, or decomposition products. Use supplied-air breathing equipment for enclosed or confined spaces or as otherwise needed.

UNUSUAL FIRE AND EXPLOSION HAZARDS:
n/a

"EMPTY" CONTAINER WARNING:

Empty containers retain residue (liquid or vapor) and can be dangerous. DO NOT PRESSURIZE, WELD, CUT BRAZE, SOLDER, DRILL, GRIND OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, OR OTHER SOURCES OF IGNITION; THEY MAY EXPLODE AND CAUSE INJURY OR DEATH. Do not attempt to clean since residue is difficult to remove. "Empty" drums should be completely drained, properly bunged, and returned to a drum reconditioner. All other containers should be disposed of in an environmentally safe manner and in accordance with government regulations. For work on tanks refer to Occupational Safety and Health Administration regulations, ANSI Z49.1, and other governmental and industrial references pertaining to cleaning, repairing, welding, or other contemplated operations.

HEALTH AND HAZARD INFORMATION

EXPOSURE LIMIT FOR TOTAL PRODUCT: N/E

VARIABILITY AMONG INDIVIDUALS:

Health studies have shown that many petroleum hydrocarbons and synthetic lubricants pose potential human health risks which vary from person to person. As a precaution, exposure to liquids, vapors, mists, or fumes should be minimized.

EFFECTS OF OVEREXPOSURE (Signs and symptoms of exposure):

SKIN:

Prolong or repeated skin contact may cause mild irritation.

EYES:

Product contacting the eye may cause irritation.

INHALATION:

Excessive concentrations of vapors or mists may cause irritation.

MATERIAL SAFETY DATA SHEET FOR RUBIA TIR 7900 SAE 15W-40

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IDENTIFICATION AND EMERGENCY INFORMATION

PRODUCT NAME:
RUBIA TIR 7900 SAE 15W-40

PRODUCT #:
1-11757

CHEMICAL NAME:
N/A - Mixture

CAS #'S:
Mixture

PRODUCT APPEARANCE AND ODOR:
Dark liquid, petroleum odor

CHEMICAL FAMILY:
N/A - mixture

SYNONYMS:
Heavy Duty Diesel Lubricant

EMERGENCY TELEPHONE:
1-800-442-5823 or 1-908-862-9300

COMPONENTS AND HAZARD INFORMATION

COMPONENTS:

W/W HAZARD DATA (TLV, LD50, LC50, ETC.):

Petroleum based lubricating oil
CAS# 64742-54-7, 64742-65-0,
64741-89-5, 64741-88-4*

5 mg/m3 TWA (OSHA, ACGIH)
(as an oil mist)

* Paraffinic base oil used are not limited to but include these CAS numbers.

Non-hazardous additive packages n/e
CAS# n/a

HAZARDOUS MATERIALS IDENTIFICATION SYSTEM (HMIS):

Health	Flammability	Reactivity
1	1	0

TRANSPORTATION INFORMATION

TRANSPORTATION/SHIPPING INFORMATION:

Department of Transportation (DOT): Not regulated

EMERGENCY FIRST AID

EYE CONTACT:

If splashed into the eyes, flush with clear water for 15 minutes or until irritation subsides. If irritation persists, call a physician.

SKIN CONTACT:

In case of skin contact, remove contaminated clothing and wash skin thoroughly with soap and water.

INHALATION:

For effects produced by overexposure, remove to fresh air. If effects persist, obtain medical advice.

INGESTION:

If ingested, call a physician immediately. Possible aspiration hazard.

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DATE ISSUED
1-June-2009

PREPARED BY: Alan Denniston

VP PRODUCT MANAGEMENT

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REVISION DATE
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DATE ISSUED
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Medical Conditions Aggravated by Exposure: Unknown

This product does NOT contain any ingredients identified as carcinogenic by IARC, NTP, or OSHA.

SARA Section 313 Status: This material is not known to contain any chemicals on the SARA Section 313 list at a concentration greater than 1.0 percent or carcinogenic chemical on that list at a concentration greater than 0.1 percent.

SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Keep product out of sewers and watercourses by diking or impounding. Absorb with sand or inert material. Sweep or scoop up and remove. Prevent spread of spill. Advise authorities if product has entered or may enter sewers, watercourses or extensive land areas. Assure conformity with local regulations.

WASTE DISPOSAL METHOD: (Consult federal, state, or local authorities for proper disposal procedures.)

Assure conformity with applicable disposal regulations. Dispose of absorbed material at an approved waste site or facility.

PROTECTION AND PRECAUTIONS

VENTILATION: (Always maintain below permissible exposure limits.)

Use local exhaust to capture vapor, mist or fumes, if necessary. Provide ventilation sufficient to prevent exceeding recommended exposure limit or buildup of explosive concentrations of vapor in air.

RESPIRATORY PROTECTION: (Use only NIOSH approved equipment.)

Normally not needed at ambient temperatures. Use supplied air respiratory protection in confined or enclosed spaces, if needed. Use filter, dust, fume, or mist respirator type under misting conditions. Use can or cartridge; gas or vapor respirator type under conditions exceeding TWA standard.

PROTECTIVE GLOVES:

Use chemical-resistant gloves, if needed, to avoid prolonged or repeated skin contact.

EYE PROTECTION:

Use splash goggles or face shield when eye contact may occur.

OTHER PROTECTIVE EQUIPMENT:

Use chemical-resistant apron or other impervious clothing, if needed, to avoid contaminating regular clothing which could result in prolonged or repeated skin contact.

WORK PRACTICES/ENGINEERING CONTROLS:

Keep containers closed when not in use. Do not handle near heat, sparks, flame or strong oxidants.

PERSONAL HYGIENE:

Minimize breathing vapor, mist, or fumes. Avoid prolonged or repeated contact with skin. Remove contaminated clothing; launder or dry-clean before reuse. Remove contaminated shoes and thoroughly clean before reuse; discard if oil-soaked. Cleanse skin thoroughly after contact, before breaks and meals, and at end of work period. Product is readily removed from skin by waterless hand cleaners followed by washing thoroughly with soap and water.

MATERIAL SAFETY DATA SHEET FOR FLUID NA H3

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EFFECTS OF OVEREXPOSURE (Signs and symptoms of exposure):
Prolonged or repeated skin contact with this product tends to remove skin oils possibly leading to irritation and dermatitis.
Product contacting the eye may cause irritation.
Product has a low order of oral and dermal toxicity.
Possible aspiration hazard.
Induced vomiting may cause aspiration of product into the lungs.
(See Emergency First Aid Section).

PHYSICAL DATA

The following data are approximate or typical values and should not be used for precise design purposes.

BOILING RANGE: Wide range	VAPOR PRESSURE: < 0.1 @ 38°C/100°F
SPECIFIC GRAVITY (25°C/25°C): (WATER = 1) < 1.0	VAPOR DENSITY (AIR = 1): > 8
MOLECULAR WEIGHT: Wide range	PERCENT VOLATILE BY VOLUME: Negligible
EVAPORATION RATE @ 1 ATM. AND 25°C (77°F) (n-BUTYL ACETATE = 1): < 1.0	SOLUBILITY IN WATER @ 1 ATM. and 25°C (77°F): Negligible
POUR, CONGEALING OR MELTING POINT: n/e	FREEZING POINT: n/e

REACTIVITY

This product is stable and will NOT react violently with water. Hazardous olymerization will not occur. Avoid contact with strong oxidants such as liquid chlorine, concentrated oxygen, sodium hypochlorite or calcium hypochlorite, etc., as this represents a serious explosion hazard.

DECOMPOSITION PRODUCTS UNDER FIRE CONDITIONS:
Fumes, smoke, carbon monoxide, oxides of sulfur, and other decomposition products, in case of incomplete combustion.

CONDITIONS TO AVOID:
Open flames

TOXICITY

ORAL (Acute)	N/E
DERMAL (Acute)	N/E
EYE	N/E
INHALATION (Acute)	N/E
CHRONIC, SUBCHRONIC, ETC.	N/E

MATERIAL SAFETY DATA SHEET FOR FLUID NA H3

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INGESTION:

If ingested, do not induce vomiting. Call a physician immediately.

FIRE AND EXPLOSION HAZARD INFORMATION

FLASH POINT (MINIMUM):
179°C (355°F) Test method: COC

AUTOIGNITION TEMPERATURE:
N/E

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) - HAZARD IDENTIFICATION:

Health	Flammability	Reactivity
1	1	0

FLAMMABLE OR EXPLOSIVE LIMITS (approximate percent by volume in air):
Estimated values: lower: N/E upper: N/E

EXTINGUISHING MEDIA AND FIRE FIGHTING PROCEDURES:

Foam, water spray (fog), dry chemical, carbon dioxide and vaporizing liquid type extinguishing agents may all be suitable for extinguishing fires involving this type product, depending on size or potential size of fire and circumstances related to the situation. Plan fire protection and response strategy through consultation with local fire protection authorities or appropriate specialists.

The following procedures for this type of product are based on the recommendations in the National Fire Protection Association's "Fire Protection Guide on Hazardous Materials", Eighth Edition (1984):

Use water spray, dry chemical, foam, or carbon dioxide. Water or foam may cause frothing. Use water to keep fire-exposed containers cool. Water froth may be used to flush spills away from exposure. Minimize breathing gases, vapor, fumes, or decomposition products. Use supplied-air breathing equipment for enclosed or confined spaces or as otherwise needed.

UNUSUAL FIRE AND EXPLOSION HAZARDS:
n/a

"EMPTY" CONTAINER WARNING:

Empty containers retain residue (liquid or vapor) and can be dangerous. DO NOT PRESSURIZE, WELD, CUT BRAZE, SOLDER, DRILL, GRIND OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, OR OTHER SOURCES OF IGNITION; THEY MAY EXPLODE AND CAUSE INJURY OR DEATH. Do not attempt to clean since residue is difficult to remove. "Empty" drums should be completely drained, properly bunged, and returned to a drum reconditioner. All other containers should be disposed of in an environmentally safe manner and in accordance with government regulations. For work on tanks refer to Occupational Safety and Health Administration regulations, ANSI Z49.1, and other governmental and industrial references pertaining to cleaning, repairing, welding, or other contemplated operations.

HEALTH AND HAZARD INFORMATION

EXPOSURE LIMIT FOR TOTAL PRODUCT: Monitor data listed in the Components and Hazard Information section.

VARIABILITY AMONG INDIVIDUALS:

Health studies have shown that many petroleum hydrocarbons and synthetic lubricants pose potential human health risks which vary from person to person. As a precaution, exposure to liquids, vapors, mists, or fumes should be minimized.

MATERIAL SAFETY DATA SHEET FOR FLUID NA H3

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REVISION DATE
N/A

DATE ISSUED
1-June-2009

IDENTIFICATION AND EMERGENCY INFORMATION

PRODUCT NAME: FLUID NA H3	PRODUCT #: 1-12115
CHEMICAL NAME: N/A - Mixture	CAS #'S: Mixture
PRODUCT APPEARANCE AND ODOR: Amber liquid, petroleum odor	CHEMICAL FAMILY: Petroleum hydrocarbon
SYNONYMS: Petroleum-based ATF	EMERGENCY TELEPHONE: 1-800-442-5823 or 1-908-862-9300

COMPONENTS AND HAZARD INFORMATION

COMPONENTS:	W/W HAZARD DATA (TLV, LD50, LC50, ETC.):
Petroleum based lubricating oil	5 mg/m3 TWA (OSHA, ACGIH)
CAS# 64742-54-7, 64742-65-0,	(as an oil mist)
64741-89-5, 64741-88-4*	

* Paraffinic base oil used are not limited to but include these CAS numbers.

HAZARDOUS MATERIALS IDENTIFICATION SYSTEM (HMIS):

Health	Flammability	Reactivity
1	1	0

TRANSPORTATION INFORMATION

TRANSPORTATION/SHIPPING INFORMATION:

Department of Transportation (DOT): Not regulated

EMERGENCY FIRST AID

EYE CONTACT:

If splashed into the eyes, flush with clear water for 15 minutes or until irritation subsides. If irritation persists, call a physician.

SKIN CONTACT:

In case of skin contact, remove contaminated clothing and wash skin thoroughly with soap and water.

INHALATION:

Vapor pressure is very low. Vapor inhalation under ambient conditions is normally not a problem. If overcome by vapor from hot product, immediately remove from exposure and call a physician. If breathing is irregular or has stopped, start resuscitation; administer oxygen if available. If overexposure to oil mist, remove from further exposure until excessive oil mist condition subsides.

MATERIAL SAFETY DATA SHEET FOR FLUIDMATIC SYN NA

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Linden NJ 07036

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11-September-2009 (name correction)

DATE ISSUED

1-June-2009

Keep product out of sewers and watercourses by diking or impounding. Absorb with sand or inert material. Sweep or scoop up and remove. Prevent spread of spill. Advise authorities if product has entered or may enter sewers, watercourses or extensive land areas. Assure conformity with local regulations.

WASTE DISPOSAL METHOD: (Consult federal, state, or local authorities for proper disposal procedures.)

Assure conformity with applicable disposal regulations. Dispose of absorbed material at an approved waste site or facility.

PROTECTION AND PRECAUTIONS

VENTILATION: (Always maintain below permissible exposure limits.)

Use local exhaust to capture vapor, mist or fumes, if necessary. Provide ventilation sufficient to prevent exceeding recommended exposure limit or buildup of explosive concentrations of vapor in air.

RESPIRATORY PROTECTION: (Use only NIOSH approved equipment.)

Normally not needed at ambient temperatures. Use supplied air respiratory protection in confined or enclosed spaces, if needed. Use filter, dust, fume, or mist respirator type under misting conditions. Use can or cartridge; gas or vapor respirator type under conditions exceeding TWA standard.

PROTECTIVE GLOVES:

Use chemical-resistant gloves, if needed, to avoid prolonged or repeated skin contact.

EYE PROTECTION:

Use splash goggles or face shield when eye contact may occur.

OTHER PROTECTIVE EQUIPMENT:

Use chemical-resistant apron or other impervious clothing, if needed, to avoid contaminating regular clothing which could result in prolonged or repeated skin contact.

WORK PRACTICES/ENGINEERING CONTROLS:

Keep containers closed when not in use. Do not handle near heat, sparks, flame or strong oxidants.

PERSONAL HYGIENE:

Minimize breathing vapor, mist, or fumes. Avoid prolonged or repeated contact with skin. Remove contaminated clothing; launder or dry-clean before reuse. Remove contaminated shoes and thoroughly clean before reuse; discard if oil-soaked. Cleanse skin thoroughly after contact, before breaks and meals, and at end of work period. Product is readily removed from skin by waterless hand cleaners followed by washing thoroughly with soap and water.

PREPARED BY: Alan Denniston

VP PRODUCT MANAGEMENT

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PHYSICAL DATA

The following data are approximate or typical values and should not be used for precise design purposes.

BOILING RANGE: Wide range	VAPOR PRESSURE: < 0.1 @ 38°C/100°F
SPECIFIC GRAVITY (25°C/25°C): (WATER = 1) < 1.0	VAPOR DENSITY (AIR = 1): > 8
MOLECULAR WEIGHT: Wide range	PERCENT VOLATILE BY VOLUME: Negligible
EVAPORATION RATE @ 1 ATM. AND 25°C (77°F) (n-BUTYL ACETATE = 1): < 1.0	SOLUBILITY IN WATER @ 1 ATM. and 25°C (77°F): Negligible
POUR, CONGEALING OR MELTING POINT: n/e	FREEZING POINT: n/e

REACTIVITY

This product is stable and will NOT react violently with water. Hazardous olymerization will not occur. Avoid contact with strong oxidants such as liquid chlorine, concentrated oxygen, sodium hypochlorite or calcium hypochlorite, etc., as this represents a serious explosion hazard.

DECOMPOSITION PRODUCTS UNDER FIRE CONDITIONS:
Fumes, smoke, carbon monoxide, oxides of sulfur, and other decomposition products, in case of incomplete combustion.

CONDITIONS TO AVOID:
Open flames

TOXICITY

ORAL (Acute)	N/E
DERMAL (Acute)	N/E
EYE	N/E
INHALATION (Acute)	N/E
CHRONIC, SUBCHRONIC, ETC.	N/E

Medical Conditions Aggravated by Exposure: Unknown
This product does NOT contain any ingredients identified as carcinogenic by IARC, NTP, or OSHA.
SARA Section 313 Status: This material is not known to contain any chemicals on the SARA Section 313 list at a concentration greater than 1.0 percent or carcinogenic chemical on that list at a concentration greater than 0.1 percent.

SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

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FIRE AND EXPLOSION HAZARD INFORMATION

FLASH POINT (MINIMUM): AUTOIGNITION TEMPERATURE:
179°C (355°F) Test method: COC N/E

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) - HAZARD IDENTIFICATION:

Health	Flammability	Reactivity
1	1	0

FLAMMABLE OR EXPLOSIVE LIMITS (approximate percent by volume in air):
Estimated values: lower: N/E upper: N/E

EXTINGUISHING MEDIA AND FIRE FIGHTING PROCEDURES:

Foam, water spray (fog), dry chemical, carbon dioxide and vaporizing liquid type extinguishing agents may all be suitable for extinguishing fires involving this type product, depending on size or potential size of fire and circumstances related to the situation. Plan fire protection and response strategy through consultation with local fire protection authorities or appropriate specialists.

The following procedures for this type of product are based on the recommendations in the National Fire Protection Association's "Fire Protection Guide on Hazardous Materials", Eighth Edition (1984):

Use water spray, dry chemical, foam, or carbon dioxide. Water or foam may cause frothing. Use water to keep fire-exposed containers cool. Water froth may be used to flush spills away from exposure. Minimize breathing gases, vapor, fumes, or decomposition products. Use supplied-air breathing equipment for enclosed or confined spaces or as otherwise needed.

UNUSUAL FIRE AND EXPLOSION HAZARDS:
n/a

"EMPTY" CONTAINER WARNING:

Empty containers retain residue (liquid or vapor) and can be dangerous. DO NOT PRESSURIZE, WELD, CUT BRAZE, SOLDER, DRILL, GRIND OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, OR OTHER SOURCES OF IGNITION; THEY MAY EXPLODE AND CAUSE INJURY OR DEATH. Do not attempt to clean since residue is difficult to remove. "Empty" drums should be completely drained, properly bunged, and returned to a drum reconditioner. All other containers should be disposed of in an environmentally safe manner and in accordance with government regulations. For work on tanks refer to Occupational Safety and Health Administration regulations, ANSI Z49.1, and other governmental and industrial references pertaining to cleaning, repairing, welding, or other contemplated operations.

HEALTH AND HAZARD INFORMATION

EXPOSURE LIMIT FOR TOTAL PRODUCT: Monitor data listed in the Components and Hazard Information section.

VARIABILITY AMONG INDIVIDUALS:

Health studies have shown that many petroleum hydrocarbons and synthetic lubricants pose potential human health risks which vary from person to person. As a precaution, exposure to liquids, vapors, mists, or fumes should be minimized.

EFFECTS OF OVEREXPOSURE (Signs and symptoms of exposure):

Prolonged or repeated skin contact with this product tends to remove skin oils possibly leading to irritation and dermatitis.

Product contacting the eye may cause irritation.

Product has a low order of oral and dermal toxicity. Possible aspiration hazard.

Induced vomiting may cause aspiration of product into the lungs.

(See Emergency First Aid Section).

MATERIAL SAFETY DATA SHEET FOR FLUIDMATIC SYN NA

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IDENTIFICATION AND EMERGENCY INFORMATION

PRODUCT NAME:
FLUIDMATIC SYN NA

PRODUCT #:
1-12302

CHEMICAL NAME:
N/A - Mixture

CAS #'S:
Mixture

PRODUCT APPEARANCE AND ODOR:
Red liquid, petroleum odor

CHEMICAL FAMILY:
Petroleum hydrocarbon

SYNONYMS:
Petroleum-based ATF

EMERGENCY TELEPHONE:
1-800-442-5823 or 1-908-862-9300

COMPONENTS AND HAZARD INFORMATION

COMPONENTS:

W/W HAZARD DATA (TLV, LD50, LC50, ETC.):

Petroleum based lubricating oil
CAS# 64742-54-7, 64742-65-0,
64742-55-8*

5 mg/m3 TWA (OSHA, ACGIH)
(as an oil mist)

* Paraffinic base oil used are not limited to but include these CAS numbers.

HAZARDOUS MATERIALS IDENTIFICATION SYSTEM (HMIS):

Health	Flammability	Reactivity
1	1	0

TRANSPORTATION INFORMATION

TRANSPORTATION/SHIPPING INFORMATION:

Department of Transportation (DOT): Not regulated

EMERGENCY FIRST AID

EYE CONTACT:

If splashed into the eyes, flush with clear water for 15 minutes or until irritation subsides. If irritation persists, call a physician.

SKIN CONTACT:

In case of skin contact, remove contaminated clothing and wash skin thoroughly with soap and water.

INHALATION:

Vapor pressure is very low. Vapor inhalation under ambient conditions is normally not a problem. If overcome by vapor from hot product, immediately remove from exposure and call a physician. If breathing is irregular or has stopped, start resuscitation; administer oxygen if available. If overexposure to oil mist, remove from further exposure until excessive oil mist condition subsides.

INGESTION:

If ingested, do not induce vomiting. Call a physician immediately.

MATERIAL SAFETY DATA SHEET FOR MULTIS COMPLEX EP NA GREASES

TOTAL Lubricants USA Southwest
400 Chisholm Place, Suite 418
Plano, Texas 75075

TOTAL Lubricants USA, Inc.
5 N. Stiles Street
Linden NJ 07036

REVISION DATE
N/A

DATE ISSUED
3-September-2009

SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Keep product out of sewers and watercourses by diking or impounding. Absorb with sand or inert material. Sweep or scoop up and remove. Prevent spread of spill. Advise authorities if product has entered or may enter sewers, watercourses or extensive land areas. Assure conformity with local regulations.

WASTE DISPOSAL METHOD: (Consult federal, state, or local authorities for proper disposal procedures.) Assure conformity with applicable disposal regulations. Dispose of absorbed material at an approved waste site or facility.

PROTECTION AND PRECAUTIONS

VENTILATION: (Always maintain below permissible exposure limits.)

Use local exhaust to capture vapor, mist or fumes, if necessary. Provide ventilation sufficient to prevent exceeding recommended exposure limit or buildup of explosive concentrations of vapor in air. No smoking, or use of flame or other ignition source

RESPIRATORY PROTECTION: (Use only NIOSH approved equipment.)

Normally not needed at ambient temperatures. Use supplied air respiratory protection in confined or enclosed spaces, if needed. Use filter, dust, fume, or mist respirator type under misting conditions. Use can or cartridge; gas or vapor respirator type under conditions exceeding TWA standard.

PROTECTIVE GLOVES:

Use chemical-resistant gloves, if needed, to avoid prolonged or repeated skin contact.

EYE PROTECTION:

Use splash goggles or face shield when eye contact may occur.

OTHER PROTECTIVE EQUIPMENT:

Use chemical-resistant apron or other impervious clothing, if needed, to avoid contaminating regular clothing which could result in prolonged or repeated skin contact.

WORK PRACTICES/ENGINEERING CONTROLS:

Keep containers closed when not in use. Do not handle near heat, sparks, flame, or strong oxidants.

PERSONAL HYGIENE:

Minimize breathing vapor, mist, or fumes. Avoid prolonged or repeated contact with skin. Remove contaminated clothing; launder or dry-clean before reuse. Remove contaminated shoes and thoroughly clean before reuse; discard if oil-soaked. Cleanse skin thoroughly after contact, before breaks and meals, and at end of work period. Product is readily removed from skin by waterless hand cleaners followed by washing thoroughly with soap and water.

PREPARED BY: Alan Denniston

VP PRODUCT MANAGEMENT

THE ABOVE INFORMATION IS ACCURATE TO THE BEST OF OUR KNOWLEDGE. HOWEVER, SINCE DATA, SAFETY STANDARDS, AND GOVERNMENT REGULATIONS ARE SUBJECT TO CHANGE AND THE CONDITIONS OF HANDLING AND USE, OR MISUSE BEYOND OUR CONTROL, SELLER MAKES NO WARRANTY, EITHER EXPRESS OR IMPLIED, WITH RESPECT TO THE COMPLETENESS OR CONTINUING ACCURACY OF THE INFORMATION CONTAINED HEREIN AND DISCLAIMS ALL LIABILITY FOR RELIANCE THEREON. USER SHOULD SATISFY HIMSELF THAT HE HAS ALL CURRENT DATA RELEVANT TO HIS PARTICULAR USE.

MATERIAL SAFETY DATA SHEET FOR MULTIS COMPLEX EP NA GREASES

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Plano, Texas 75075

TOTAL Lubricants USA, Inc.
5 N. Stiles Street
Linden NJ 07036

REVISION DATE
N/A

DATE ISSUED
3-September-2009

PHYSICAL DATA

The following data are approximate or typical values and should not be used for precise design purposes.

BOILING RANGE:
Wide range

VAPOR PRESSURE:
< 0.1 @ 38°C/100°F

SPECIFIC GRAVITY (25°C/25°C):
(WATER = 1)
< 1.0

VAPOR DENSITY (AIR = 1):
> 8

MOLECULAR WEIGHT:
Wide range

PERCENT VOLATILE BY VOLUME:
Negligible

EVAPORATION RATE @ 1 ATM. AND 25°C
(77°F) (n-BUTYL ACETATE = 1):
< 1.0

SOLUBILITY IN WATER @ 1 ATM. and 25°C
(77°F):
Negligible

POUR, CONGEALING OR MELTING POINT:
n/e

FREEZING POINT:
n/e

REACTIVITY

This product is stable and will NOT react violently with water. Hazardous polymerization will not occur. Avoid contact with strong oxidants such as liquid chlorine, concentrated oxygen, sodium hypochlorite or calcium hypochlorite.

DECOMPOSITION PRODUCTS UNDER FIRE CONDITIONS:

Fumes, smoke, carbon monoxide and other decomposition products, in case of incomplete combustion.

CONDITIONS TO AVOID:
Open flames.

TOXICITY

ORAL (Acute)	N/E
DERMAL (Acute)	N/E
EYE	N/E
INHALATION (Acute)	N/E

CHRONIC, SUBCHRONIC, ETC. N/E

Medical Conditions Aggravated by Exposure: Unknown

This product does NOT contain any ingredients identified as carcinogenic by IARC, NTP, or OSHA.

SARA Section 313 Status: This material is not known to contain any chemicals on the SARA Section 313 list at a concentration greater than 1.0 percent or carcinogenic chemical on that list at a concentration greater than 0.1 percent.

MATERIAL SAFETY DATA SHEET FOR MULTIS COMPLEX EP NA GREASES

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5 N. Stiles Street
Linden NJ 07036

REVISION DATE
N/A

DATE ISSUED
3-September-2009

call a physician. If breathing is irregular or has stopped, start resuscitation; administer oxygen if available. If overexposure to oil mist, remove from further exposure until excessive oil mist condition subsides.

INGESTION:

If ingested, do not induce vomiting. Call a physician immediately.

FIRE AND EXPLOSION HAZARD INFORMATION

FLASH POINT (MINIMUM): AUTOIGNITION TEMPERATURE:
365°F Test method: COC N/E

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) - HAZARD IDENTIFICATION:

Health	Flammability	Reactivity
1	1	0

FLAMMABLE OR EXPLOSIVE LIMITS (approximate percent by volume in air):
Estimated values: lower: N/E upper: N/E

EXTINGUISHING MEDIA AND FIRE FIGHTING PROCEDURES:

Foam, water spray (fog), dry chemical, carbon dioxide and vaporizing liquid type extinguishing agents may all be suitable for extinguishing fires involving this type product, depending on size or potential size of fire and circumstances related to the situation. Water froth may be used to flush spills away from exposure. Minimize breathing gases, vapor, fumes, smoke, or decomposition products. Use supplied-air breathing equipment for enclosed or confined spaces or as otherwise needed.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

n/a

"EMPTY" CONTAINER WARNING:

Empty containers retain residue (liquid or vapor) and can be dangerous. DO NOT PRESSURIZE, WELD, CUT BRAZE, SOLDER, DRILL, GRIND OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, OR OTHER SOURCES OF IGNITION; THEY MAY EXPLODE AND CAUSE INJURY OR DEATH. Do not attempt to clean since residue is difficult to remove. "Empty" drums should be completely drained, properly bunged, and returned to a drum reconditioner. All other containers should be disposed of in an environmentally safe manner and in accordance with government regulations.

HEALTH AND HAZARD INFORMATION

EXPOSURE LIMIT FOR TOTAL PRODUCT: Monitor data listed in the Components and Hazard Information section.

VARIABILITY AMONG INDIVIDUALS:

Health studies have shown that many petroleum hydrocarbons and synthetic lubricants pose potential human health risks which vary from person to person. As a precaution, exposure to liquids, vapors, mists, or fumes should be minimized.

EFFECTS OF OVEREXPOSURE (Signs and symptoms of exposure):

Prolonged or repeated skin contact with this product tends to remove skin oils possibly leading to irritation and dermatitis.

Product contacting the eye may cause irritation.

Product has a low order of oral and dermal toxicity.

Possible aspiration hazard.

Induced vomiting may cause aspiration of product into the lungs.

(See Emergency First Aid Section).

MATERIAL SAFETY DATA SHEET FOR MULTIS COMPLEX EP NA GREASES

TOTAL Lubricants USA Southwest
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Plano, Texas 75075

TOTAL Lubricants USA, Inc.
5 N. Stiles Street
Linden NJ 07036

REVISION DATE
N/A

DATE ISSUED
3-September-2009

IDENTIFICATION AND EMERGENCY INFORMATION

PRODUCT NAME:
MULTIS COMPLEX EP NA GREASE
(Grades 1 and 2)

PRODUCT #:
Codes 1-39872 and 1-39873

CHEMICAL NAME:
N/A-Mixture

CAS #'S:
Mixture

PRODUCT APPEARANCE AND ODOR:
Blue gel, petroleum odor

CHEMICAL FAMILY:
Petroleum hydrocarbon

SYNONYMS:
Petroleum-based grease

EMERGENCY TELEPHONE:
1-800-442-5823 or 1-908-862-9300

COMPONENTS AND HAZARD INFORMATION

COMPONENTS:

W/W HAZARD DATA (TLV, LD50, LC50, ETC.):

Petroleum based lubricating oil* 5 mg/m3 TWA (OSHA, ACGIH) as oil mist
CAS# 64742-52-5; 64742-53-6
64741-88-4; 64741-89-5
64742-01-4; 64742-65-0

Lithium carboxylate Soap (proprietary) 1 to 15%
Proprietary ingredients remainder 1 to 15%

* Paraffinic base oil used are not limited to but include these CAS numbers.

HAZARDOUS MATERIALS IDENTIFICATION SYSTEM (HMIS):

Health	Flammability	Reactivity
1	1	0

TRANSPORTATION INFORMATION

TRANSPORTATION/SHIPPING INFORMATION:

Department of Transportation (DOT): Not regulated

EMERGENCY FIRST AID

EYE CONTACT:

If splashed into the eyes, flush with clear water for 15 minutes or until irritation subsides. If irritation persists, call a physician.

SKIN CONTACT:

As with all petroleum products, if this product contacts skin, wash affected area thoroughly with soap and water to prevent irritations from occurring. Oil soaked clothing should be removed and laundered frequently to minimize skin contact with product. Prolonged contact with skin may cause irritation.

INHALATION:

Vapor pressure is very low. Vapor inhalation under ambient conditions is normally not a problem. If overcome by vapor from hot product, immediately remove from exposure and

MATERIAL SAFETY DATA SHEET FOR MULTIS COMPLEX EP NA GREASES

TOTAL Lubricants USA Southwest
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Plano, Texas 75075

TOTAL Lubricants USA, Inc.
5 N. Stiles Street
Linden NJ 07036

REVISION DATE
N/A

DATE ISSUED
3-September-2009

SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Keep product out of sewers and watercourses by diking or impounding. Absorb with sand or inert material. Sweep or scoop up and remove. Prevent spread of spill. Advise authorities if product has entered or may enter sewers, watercourses or extensive land areas. Assure conformity with local regulations.

WASTE DISPOSAL METHOD: (Consult federal, state, or local authorities for proper disposal procedures.) Assure conformity with applicable disposal regulations. Dispose of absorbed material at an approved waste site or facility.

PROTECTION AND PRECAUTIONS

VENTILATION: (Always maintain below permissible exposure limits.)

Use local exhaust to capture vapor, mist or fumes, if necessary. Provide ventilation sufficient to prevent exceeding recommended exposure limit or buildup of explosive concentrations of vapor in air. No smoking, or use of flame or other ignition source

RESPIRATORY PROTECTION: (Use only NIOSH approved equipment.)

Normally not needed at ambient temperatures. Use supplied air respiratory protection in confined or enclosed spaces, if needed. Use filter, dust, fume, or mist respirator type under misting conditions. Use can or cartridge; gas or vapor respirator type under conditions exceeding TWA standard.

PROTECTIVE GLOVES:

Use chemical-resistant gloves, if needed, to avoid prolonged or repeated skin contact.

EYE PROTECTION:

Use splash goggles or face shield when eye contact may occur.

OTHER PROTECTIVE EQUIPMENT:

Use chemical-resistant apron or other impervious clothing, if needed, to avoid contaminating regular clothing which could result in prolonged or repeated skin contact.

WORK PRACTICES/ENGINEERING CONTROLS:

Keep containers closed when not in use. Do not handle near heat, sparks, flame, or strong oxidants.

PERSONAL HYGIENE:

Minimize breathing vapor, mist, or fumes. Avoid prolonged or repeated contact with skin. Remove contaminated clothing; launder or dry-clean before reuse. Remove contaminated shoes and thoroughly clean before reuse; discard if oil-soaked. Cleanse skin thoroughly after contact, before breaks and meals, and at end of work period. Product is readily removed from skin by waterless hand cleaners followed by washing thoroughly with soap and water.

PREPARED BY: Alan Denniston

VP PRODUCT MANAGEMENT

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MATERIAL SAFETY DATA SHEET FOR MULTIS COMPLEX EP NA GREASES

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TOTAL Lubricants USA, Inc.
5 N. Stiles Street
Linden NJ 07036

REVISION DATE
N/A

DATE ISSUED
3-September-2009

PHYSICAL DATA

The following data are approximate or typical values and should not be used for precise design purposes.

BOILING RANGE:
Wide range

VAPOR PRESSURE:
< 0.1 @ 38°C/100°F

SPECIFIC GRAVITY (25°C/25°C):
(WATER = 1)
< 1.0

VAPOR DENSITY (AIR = 1):
> 8

MOLECULAR WEIGHT:
Wide range

PERCENT VOLATILE BY VOLUME:
Negligible

EVAPORATION RATE @ 1 ATM. AND 25°C
(77°F) (n-BUTYL ACETATE = 1):
< 1.0

SOLUBILITY IN WATER @ 1 ATM. and 25°C
(77°F):
Negligible

POUR, CONGEALING OR MELTING POINT:
n/e

FREEZING POINT:
n/e

REACTIVITY

This product is stable and will NOT react violently with water. Hazardous polymerization will not occur. Avoid contact with strong oxidants such as liquid chlorine, concentrated oxygen, sodium hypochlorite or calcium hypochlorite.

DECOMPOSITION PRODUCTS UNDER FIRE CONDITIONS:
Fumes, smoke, carbon monoxide and other decomposition products, in case of incomplete combustion.

CONDITIONS TO AVOID:
Open flames.

TOXICITY

ORAL (Acute)	N/E
DERMAL (Acute)	N/E
EYE	N/E
INHALATION (Acute)	N/E

CHRONIC, SUBCHRONIC, ETC. N/E

Medical Conditions Aggravated by Exposure: Unknown

This product does NOT contain any ingredients identified as carcinogenic by IARC, NTP, or OSHA.

SARA Section 313 Status: This material is not known to contain any chemicals on the SARA Section 313 list at a concentration greater than 1.0 percent or carcinogenic chemical on that list at a concentration greater than 0.1 percent.

MATERIAL SAFETY DATA SHEET FOR MULTIS COMPLEX EP NA GREASES

TOTAL Lubricants USA Southwest
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Plano, Texas 75075

TOTAL Lubricants USA, Inc.
5 N. Stiles Street
Linden NJ 07036

REVISION DATE
N/A

DATE ISSUED
3-September-2009

call a physician. If breathing is irregular or has stopped, start resuscitation; administer oxygen if available. If overexposure to oil mist, remove from further exposure until excessive oil mist condition subsides.

INGESTION:

If ingested, do not induce vomiting. Call a physician immediately.

FIRE AND EXPLOSION HAZARD INFORMATION

FLASH POINT (MINIMUM):
365°F Test method: COC

AUTOIGNITION TEMPERATURE:
N/E

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) - HAZARD IDENTIFICATION:

Health	Flammability	Reactivity
1	1	0

FLAMMABLE OR EXPLOSIVE LIMITS (approximate percent by volume in air):

Estimated values: lower: N/E upper: N/E

EXTINGUISHING MEDIA AND FIRE FIGHTING PROCEDURES:

Foam, water spray (fog), dry chemical, carbon dioxide and vaporizing liquid type extinguishing agents may all be suitable for extinguishing fires involving this type product, depending on size or potential size of fire and circumstances related to the situation. Water froth may be used to flush spills away from exposure. Minimize breathing gases, vapor, fumes, smoke, or decomposition products. Use supplied-air breathing equipment for enclosed or confined spaces or as otherwise needed.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

n/a

"EMPTY" CONTAINER WARNING:

Empty containers retain residue (liquid or vapor) and can be dangerous. DO NOT PRESSURIZE, WELD, CUT BRAZE, SOLDER, DRILL, GRIND OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, OR OTHER SOURCES OF IGNITION; THEY MAY EXPLODE AND CAUSE INJURY OR DEATH. Do not attempt to clean since residue is difficult to remove. "Empty" drums should be completely drained, properly bunged, and returned to a drum reconditioner. All other containers should be disposed of in an environmentally safe manner and in accordance with government regulations.

HEALTH AND HAZARD INFORMATION

EXPOSURE LIMIT FOR TOTAL PRODUCT: Monitor data listed in the Components and Hazard Information section.

VARIABILITY AMONG INDIVIDUALS:

Health studies have shown that many petroleum hydrocarbons and synthetic lubricants pose potential human health risks which vary from person to person. As a precaution, exposure to liquids, vapors, mists, or fumes should be minimized.

EFFECTS OF OVEREXPOSURE (Signs and symptoms of exposure):

Prolonged or repeated skin contact with this product tends to remove skin oils possibly leading to irritation and dermatitis.

Product contacting the eye may cause irritation.

Product has a low order of oral and dermal toxicity.

Possible aspiration hazard.

Induced vomiting may cause aspiration of product into the lungs.

(See Emergency First Aid Section).

MATERIAL SAFETY DATA SHEET FOR MULTIS COMPLEX EP NA GREASES

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Plano, Texas 75075

TOTAL Lubricants USA, Inc.
5 N. Stiles Street
Linden NJ 07036

REVISION DATE
N/A

DATE ISSUED
3-September-2009

IDENTIFICATION AND EMERGENCY INFORMATION

PRODUCT NAME:
MULTIS COMPLEX EP NA GREASE
(Grades 1 and 2)

PRODUCT #:
Codes 1-39872 and 1-39873

CHEMICAL NAME:
N/A-Mixture

CAS #'S:
Mixture

PRODUCT APPEARANCE AND ODOR:
Blue gel, petroleum odor

CHEMICAL FAMILY:
Petroleum hydrocarbon

SYNONYMS:
Petroleum-based grease

EMERGENCY TELEPHONE:
1-800-442-5823 or 1-908-862-9300

COMPONENTS AND HAZARD INFORMATION

COMPONENTS: W/W HAZARD DATA (TLV, LD50, LC50, ETC.):

Petroleum based lubricating oil* 5 mg/m3 TWA (OSHA, ACGIH) as oil mist
CAS# 64742-52-5; 64742-53-6
64741-88-4; 64741-89-5
64742-01-4; 64742-65-0

Lithium carboxylate Soap (proprietary) 1 to 15%
Proprietary ingredients remainder 1 to 15%

* Paraffinic base oil used are not limited to but include these CAS numbers.

HAZARDOUS MATERIALS IDENTIFICATION SYSTEM (HMIS):

Health	Flammability	Reactivity
1	1	0

TRANSPORTATION INFORMATION

TRANSPORTATION/SHIPPING INFORMATION:

Department of Transportation (DOT): Not regulated

EMERGENCY FIRST AID

EYE CONTACT:

If splashed into the eyes, flush with clear water for 15 minutes or until irritation subsides. If irritation persists, call a physician.

SKIN CONTACT:

As with all petroleum products, if this product contacts skin, wash affected area thoroughly with soap and water to prevent irritations from occurring. Oil soaked clothing should be removed and laundered frequently to minimize skin contact with product. Prolonged contact with skin may cause irritation.

INHALATION:

Vapor pressure is very low. Vapor inhalation under ambient conditions is normally not a problem. If overcome by vapor from hot product, immediately remove from exposure and

MATERIAL SAFETY DATA SHEET FOR DYNATRANS MP

TOTAL Lubricants USA Southwest
400 Chisholm Place, Suite 418
Plano, Texas 75075

TOTAL Lubricants USA, Inc.
5 N. Stiles Street
Linden NJ 07036

REVISION DATE
N/A

DATE ISSUED
1-June-2009

SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Keep product out of sewers and watercourses by diking or impounding. Absorb with sand or inert material. Sweep or scoop up and remove. Prevent spread of spill. Advise authorities if product has entered or may enter sewers, watercourses or extensive land areas. Assure conformity with local regulations.

WASTE DISPOSAL METHOD: (Consult federal, state, or local authorities for proper disposal procedures.) Assure conformity with applicable disposal regulations. Dispose of absorbed material at an approved waste site or facility.

PROTECTION AND PRECAUTIONS

VENTILATION: (Always maintain below permissible exposure limits.)

Use local exhaust to capture vapor, mist or fumes, if necessary. Provide ventilation sufficient to prevent exceeding recommended exposure limit or buildup of explosive concentrations of vapor in air. No smoking, or use of flame or other ignition source

RESPIRATORY PROTECTION: (Use only NIOSH approved equipment.)

Normally not needed at ambient temperatures. Use supplied air respiratory protection in confined or enclosed spaces, if needed. Use filter, dust, fume, or mist respirator type under misting conditions. Use can or cartridge; gas or vapor respirator type under conditions exceeding TWA standard.

PROTECTIVE GLOVES:

Use chemical-resistant gloves, if needed, to avoid prolonged or repeated skin contact.

EYE PROTECTION:

Use splash goggles or face shield when eye contact may occur.

OTHER PROTECTIVE EQUIPMENT:

Use chemical-resistant apron or other impervious clothing, if needed, to avoid contaminating regular clothing which could result in prolonged or repeated skin contact.

WORK PRACTICES/ENGINEERING CONTROLS:

Keep containers closed when not in use. Do not handle near heat, sparks, flame, or strong oxidants.

PERSONAL HYGIENE:

Minimize breathing vapor, mist, or fumes. Avoid prolonged or repeated contact with skin. Remove contaminated clothing; launder or dry-clean before reuse. Remove contaminated shoes and thoroughly clean before reuse; discard if oil-soaked. Cleanse skin thoroughly after contact, before breaks and meals, and at end of work period. Product is readily removed from skin by waterless hand cleaners followed by washing thoroughly with soap and water.

PREPARED BY: Alan Denniston

VP PRODUCT MANAGEMENT

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MATERIAL SAFETY DATA SHEET FOR DYNATRANS MP

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400 Chisholm Place, Suite 418
Plano, Texas 75075

TOTAL Lubricants USA, Inc.
5 N. Stiles Street
Linden NJ 07036

REVISION DATE
N/A

DATE ISSUED
1-June-2009

PHYSICAL DATA

The following data are approximate or typical values and should not be used for precise design purposes.

BOILING RANGE:
Wide range

VAPOR PRESSURE:
< 0.1 @ 38°C/100°F

SPECIFIC GRAVITY (25°C/25°C):
(WATER = 1)
< 1.0

VAPOR DENSITY (AIR = 1):
> 8

MOLECULAR WEIGHT:
Wide range

PERCENT VOLATILE BY VOLUME:
Negligible

EVAPORATION RATE @ 1 ATM. AND 25°C
(77°F) (n-BUTYL ACETATE = 1):
< 1.0

SOLUBILITY IN WATER @ 1 ATM. and 25°C
(77°F):
Negligible

POUR, CONGEALING OR MELTING POINT:
n/e

FREEZING POINT:
n/e

REACTIVITY

This product is stable and will NOT react violently with water. Hazardous polymerization will not occur. Avoid contact with strong oxidants such as liquid chlorine, concentrated oxygen, sodium hypochlorite or calcium hypochlorite.

DECOMPOSITION PRODUCTS UNDER FIRE CONDITIONS:

Fumes, smoke, carbon monoxide and other decomposition products, in case of incomplete combustion.

CONDITIONS TO AVOID:

Open flames.

TOXICITY

ORAL (Acute)	N/E
DERMAL (Acute)	N/E
EYE	N/E
INHALATION (Acute)	N/E

CHRONIC, SUBCHRONIC, ETC. N/E

Medical Conditions Aggravated by Exposure: Unknown

This product does NOT contain any ingredients identified as carcinogenic by IARC, NTP, or OSHA.

SARA Section 313 Status: This material is not known to contain any chemicals on the SARA Section 313 list at a concentration greater than 1.0 percent or carcinogenic chemical on that list at a concentration greater than 0.1 percent.

MATERIAL SAFETY DATA SHEET FOR DYNATRANS MP

TOTAL Lubricants USA Southwest
400 Chisholm Place, Suite 418
Plano, Texas 75075

TOTAL Lubricants USA, Inc.
5 N. Stiles Street
Linden NJ 07036

REVISION DATE
N/A

DATE ISSUED
1-June-2009

FIRE AND EXPLOSION HAZARD INFORMATION

FLASH POINT (MINIMUM):
365°F Test method: COC

AUTOIGNITION TEMPERATURE:
N/E

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) - HAZARD IDENTIFICATION:

Health	Flammability	Reactivity
1	1	0

FLAMMABLE OR EXPLOSIVE LIMITS (approximate percent by volume in air):
Estimated values: lower: N/E upper: N/E

EXTINGUISHING MEDIA AND FIRE FIGHTING PROCEDURES:

Foam, water spray (fog), dry chemical, carbon dioxide and vaporizing liquid type extinguishing agents may all be suitable for extinguishing fires involving this type product, depending on size or potential size of fire and circumstances related to the situation. Water froth may be used to flush spills away from exposure. Minimize breathing gases, vapor, fumes, smoke, or decomposition products. Use supplied-air breathing equipment for enclosed or confined spaces or as otherwise needed.

UNUSUAL FIRE AND EXPLOSION HAZARDS:
n/a

"EMPTY" CONTAINER WARNING:

Empty containers retain residue (liquid or vapor) and can be dangerous. DO NOT PRESSURIZE, WELD, CUT BRAZE, SOLDER, DRILL, GRIND OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, OR OTHER SOURCES OF IGNITION; THEY MAY EXPLODE AND CAUSE INJURY OR DEATH. Do not attempt to clean since residue is difficult to remove. "Empty" drums should be completely drained, properly bunged, and returned to a drum reconditioner. All other containers should be disposed of in an environmentally safe manner and in accordance with government regulations.

HEALTH AND HAZARD INFORMATION

EXPOSURE LIMIT FOR TOTAL PRODUCT: Monitor data listed in the Components and Hazard Information section.

VARIABILITY AMONG INDIVIDUALS:

Health studies have shown that many petroleum hydrocarbons and synthetic lubricants pose potential human health risks which vary from person to person. As a precaution, exposure to liquids, vapors, mists, or fumes should be minimized.

EFFECTS OF OVEREXPOSURE (Signs and symptoms of exposure):

Prolonged or repeated skin contact with this product tends to remove skin oils possibly leading to irritation and dermatitis.
Product contacting the eye may cause irritation.
Product has a low order of oral and dermal toxicity.
Possible aspiration hazard.
Induced vomiting may cause aspiration of product into the lungs.
(See Emergency First Aid Section).

MATERIAL SAFETY DATA SHEET FOR DYNATRANS MP

TOTAL Lubricants USA Southwest
400 Chisholm Place, Suite 418
Plano, Texas 75075

TOTAL Lubricants USA, Inc.
5 N. Stiles Street
Linden NJ 07036

REVISION DATE
N/A

DATE ISSUED
1-June-2009

IDENTIFICATION AND EMERGENCY INFORMATION

PRODUCT NAME:	PRODUCT #:
DYNATRANS MP	1-14100
CHEMICAL NAME:	CAS #'S:
Petroleum-based lubricating oil	Mixture
PRODUCT APPEARANCE AND ODOR:	CHEMICAL FAMILY:
Amber liquid, petroleum odor	Petroleum hydrocarbon
SYNONYMS:	EMERGENCY TELEPHONE:
Petroleum-based tractor oil	1-800-442-5823 or 1-908-862-9300

COMPONENTS AND HAZARD INFORMATION

COMPONENTS:	W/W	HAZARD DATA (TLV, LD50, LC50, ETC.):
Petroleum based lubricating oil		5 mg/m3 TWA (OSHA, ACGIH)
CAS# 64742-54-7, 64742-65-0,		(as an oil mist)
64741-89-5, 64741-88-4*		

* Paraffinic base oil used are not limited to but include these CAS numbers.

HAZARDOUS MATERIALS IDENTIFICATION SYSTEM (HMIS):

Health	Flammability	Reactivity
1	1	0

TRANSPORTATION INFORMATION

TRANSPORTATION/SHIPPING INFORMATION:

Department of Transportation (DOT): Not regulated

EMERGENCY FIRST AID

EYE CONTACT:

If splashed into the eyes, flush with clear water for 15 minutes or until irritation subsides. If irritation persists, call a physician.

SKIN CONTACT:

As with all petroleum products, if this product contacts skin, wash affected area thoroughly with soap and water to prevent irritations from occurring. Oil soaked clothing should be removed and laundered frequently to minimize skin contact with product. Prolonged contact with skin may cause irritation.

INHALATION:

Vapor pressure is very low. Vapor inhalation under ambient conditions is normally not a problem. If overcome by vapor from hot product, immediately remove from exposure and call a physician. If breathing is irregular or has stopped, start resuscitation; administer oxygen if available. If overexposure to oil mist, remove from further exposure until excessive oil mist condition subsides.

INGESTION:

If ingested, do not induce vomiting. Call a physician immediately.

MATERIAL SAFETY DATA SHEET FOR TRANSMISSION MDL NA OILS (All grades)

TOTAL Lubricants USA Southwest
400 Chisholm Place, Suite 418
Plano, Texas 75075

TOTAL Lubricants USA, Inc.
5 N. Stiles Street
Linden NJ 07036

REVISION DATE
N/A

DATE ISSUED
1-June-2009

SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Keep product out of sewers and watercourses by diking or impounding. Absorb with sand or inert material. Sweep or scoop up and remove. Prevent spread of spill. Advise authorities if product has entered or may enter sewers, watercourses or extensive land areas. Assure conformity with local regulations.

WASTE DISPOSAL METHOD: (Consult federal, state, or local authorities for proper disposal procedures.) Assure conformity with applicable disposal regulations. Dispose of absorbed material at an approved waste site or facility.

PROTECTION AND PRECAUTIONS

VENTILATION: (Always maintain below permissible exposure limits.)

Use local exhaust to capture vapor, mist or fumes, if necessary. Provide ventilation sufficient to prevent exceeding recommended exposure limit or buildup of explosive concentrations of vapor in air. No smoking, or use of flame or other ignition source

RESPIRATORY PROTECTION: (Use only NIOSH approved equipment.)

Normally not needed at ambient temperatures. Use supplied air respiratory protection in confined or enclosed spaces, if needed. Use filter, dust, fume, or mist respirator type under misting conditions. Use can or cartridge; gas or vapor respirator type under conditions exceeding TWA standard.

PROTECTIVE GLOVES:

Use chemical-resistant gloves, if needed, to avoid prolonged or repeated skin contact.

EYE PROTECTION:

Use splash goggles or face shield when eye contact may occur.

OTHER PROTECTIVE EQUIPMENT:

Use chemical-resistant apron or other impervious clothing, if needed, to avoid contaminating regular clothing which could result in prolonged or repeated skin contact.

WORK PRACTICES/ENGINEERING CONTROLS:

Keep containers closed when not in use. Do not handle near heat, sparks, flame, or strong oxidants.

PERSONAL HYGIENE:

Minimize breathing vapor, mist, or fumes. Avoid prolonged or repeated contact with skin. Remove contaminated clothing; launder or dry-clean before reuse. Remove contaminated shoes and thoroughly clean before reuse; discard if oil-soaked. Cleanse skin thoroughly after contact, before breaks and meals, and at end of work period. Product is readily removed from skin by waterless hand cleaners followed by washing thoroughly with soap and water.

PREPARED BY: Alan Denniston

VP PRODUCT MANAGEMENT

THE ABOVE INFORMATION IS ACCURATE TO THE BEST OF OUR KNOWLEDGE. HOWEVER, SINCE DATA, SAFETY STANDARDS, AND GOVERNMENT REGULATIONS ARE SUBJECT TO CHANGE AND THE CONDITIONS OF HANDLING AND USE, OR MISUSE BEYOND OUR CONTROL, SELLER MAKES NO WARRANTY, EITHER EXPRESS OR IMPLIED, WITH RESPECT TO THE COMPLETENESS OR CONTINUING ACCURACY OF THE INFORMATION CONTAINED HEREIN AND DISCLAIMS ALL LIABILITY FOR RELIANCE THEREON. USER SHOULD SATISFY HIMSELF THAT HE HAS ALL CURRENT DATA RELEVANT TO HIS PARTICULAR USE.

MATERIAL SAFETY DATA SHEET FOR TRANSMISSION MDL NA OILS (All grades)

TOTAL Lubricants USA Southwest
400 Chisholm Place, Suite 418
Plano, Texas 75075

TOTAL Lubricants USA, Inc.
5 N. Stiles Street
Linden NJ 07036

REVISION DATE
N/A

DATE ISSUED
1-June-2009

PHYSICAL DATA

The following data are approximate or typical values and should not be used for precise design purposes.

BOILING RANGE:
Wide range

VAPOR PRESSURE:
< 0.1 @ 38°C/100°F

SPECIFIC GRAVITY (25°C/25°C):
(WATER = 1)
< 1.0

VAPOR DENSITY (AIR = 1):
> 8

MOLECULAR WEIGHT:
Wide range

PERCENT VOLATILE BY VOLUME:
Negligible

EVAPORATION RATE @ 1 ATM. AND 25°C
(77°F) (n-BUTYL ACETATE = 1):
< 1.0

SOLUBILITY IN WATER @ 1 ATM. and 25°C
(77°F):
Negligible

POUR, CONGEALING OR MELTING POINT:
n/e

FREEZING POINT:
n/e

REACTIVITY

This product is stable and will NOT react violently with water. Hazardous polymerization will not occur. Avoid contact with strong oxidants such as liquid chlorine, concentrated oxygen, sodium hypochlorite or calcium hypochlorite.

DECOMPOSITION PRODUCTS UNDER FIRE CONDITIONS:

Fumes, smoke, carbon monoxide and other decomposition products, in case of incomplete combustion.

CONDITIONS TO AVOID:

Open flames.

TOXICITY

ORAL (Acute) N/E
DERMAL (Acute) N/E
EYE N/E
INHALATION (Acute) N/E

CHRONIC, SUBCHRONIC, ETC. N/E

Medical Conditions Aggravated by Exposure: Unknown

This product does NOT contain any ingredients identified as carcinogenic by IARC, NTP, or OSHA.

SARA Section 313 Status: This material is not known to contain any chemicals on the SARA Section 313 list at a concentration greater than 1.0 percent or carcinogenic chemical on that list at a concentration greater than 0.1 percent.

MATERIAL SAFETY DATA SHEET FOR TRANSMISSION MDL NA OILS (All grades)

TOTAL Lubricants USA Southwest
400 Chisholm Place, Suite 418
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TOTAL Lubricants USA, Inc.
5 N. Stiles Street
Linden NJ 07036

REVISION DATE
N/A

DATE ISSUED
1-June-2009

FIRE AND EXPLOSION HAZARD INFORMATION

FLASH POINT (MINIMUM):
365°F Test method: COC

AUTOIGNITION TEMPERATURE:
N/E

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) - HAZARD IDENTIFICATION:

Health	Flammability	Reactivity
1	1	0

FLAMMABLE OR EXPLOSIVE LIMITS (approximate percent by volume in air):
Estimated values: lower: N/E upper: N/E

EXTINGUISHING MEDIA AND FIRE FIGHTING PROCEDURES:

Foam, water spray (fog), dry chemical, carbon dioxide and vaporizing liquid type extinguishing agents may all be suitable for extinguishing fires involving this type product, depending on size or potential size of fire and circumstances related to the situation. Water froth may be used to flush spills away from exposure. Minimize breathing gases, vapor, fumes, smoke, or decomposition products. Use supplied-air breathing equipment for enclosed or confined spaces or as otherwise needed.

UNUSUAL FIRE AND EXPLOSION HAZARDS:
n/a

"EMPTY" CONTAINER WARNING:

Empty containers retain residue (liquid or vapor) and can be dangerous. DO NOT PRESSURIZE, WELD, CUT BRAZE, SOLDER, DRILL, GRIND OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, OR OTHER SOURCES OF IGNITION; THEY MAY EXPLODE AND CAUSE INJURY OR DEATH. Do not attempt to clean since residue is difficult to remove. "Empty" drums should be completely drained, properly bunged, and returned to a drum reconditioner. All other containers should be disposed of in an environmentally safe manner and in accordance with government regulations.

HEALTH AND HAZARD INFORMATION

EXPOSURE LIMIT FOR TOTAL PRODUCT: Monitor data listed in the Components and Hazard Information section.

VARIABILITY AMONG INDIVIDUALS:

Health studies have shown that many petroleum hydrocarbons and synthetic lubricants pose potential human health risks which vary from person to person. As a precaution, exposure to liquids, vapors, mists, or fumes should be minimized.

EFFECTS OF OVEREXPOSURE (Signs and symptoms of exposure):

Prolonged or repeated skin contact with this product tends to remove skin oils possibly leading to irritation and dermatitis.
Product contacting the eye may cause irritation.
Product has a low order of oral and dermal toxicity.
Possible aspiration hazard.
Induced vomiting may cause aspiration of product into the lungs.
(See Emergency First Aid Section).

MATERIAL SAFETY DATA SHEET FOR TRANSMISSION MDL NA OILS (All grades)

TOTAL Lubricants USA Southwest
400 Chisholm Place, Suite 418
Plano, Texas 75075

TOTAL Lubricants USA, Inc.
5 N. Stiles Street
Linden NJ 07036

REVISION DATE
N/A

DATE ISSUED
1-June-2009

IDENTIFICATION AND EMERGENCY INFORMATION

PRODUCT NAME:	PRODUCT #:
TRANSMISSION MDL NA (SAE 80W-90 and 85W-140)	1-28158; 1-28159
CHEMICAL NAME:	CAS #'S:
Petroleum-based lubricating oil	Mixture
PRODUCT APPEARANCE AND ODOR:	CHEMICAL FAMILY:
Amber liquid, petroleum odor	Petroleum hydrocarbon
SYNONYMS:	EMERGENCY TELEPHONE:
Petroleum-based automotive gear oil	1-800-442-5823 or 1-908-862-9300

COMPONENTS AND HAZARD INFORMATION

COMPONENTS:	W/W	HAZARD DATA (TLV, LD50, LC50, ETC.):
Petroleum based lubricating oil		5 mg/m3 TWA (OSHA, ACGIH)
CAS# 64742-54-7, 64742-65-0,		(as an oil mist)
64741-89-5, 64741-88-4*		

* Paraffinic base oil used are not limited to but include these CAS numbers.

HAZARDOUS MATERIALS IDENTIFICATION SYSTEM (HMIS):

Health	Flammability	Reactivity
1	1	0

TRANSPORTATION INFORMATION

TRANSPORTATION/SHIPPING INFORMATION:

Department of Transportation (DOT): Not regulated

EMERGENCY FIRST AID

EYE CONTACT:
If splashed into the eyes, flush with clear water for 15 minutes or until irritation subsides. If irritation persists, call a physician.

SKIN CONTACT:
As with all petroleum products, if this product contacts skin, wash affected area thoroughly with soap and water to prevent irritations from occurring. Oil soaked clothing should be removed and laundered frequently to minimize skin contact with product. Prolonged contact with skin may cause irritation.

INHALATION:
Vapor pressure is very low. Vapor inhalation under ambient conditions is normally not a problem. If overcome by vapor from hot product, immediately remove from exposure and call a physician. If breathing is irregular or has stopped, start resuscitation; administer oxygen if available. If overexposure to oil mist, remove from further exposure until excessive oil mist condition subsides.

INGESTION:
If ingested, do not induce vomiting. Call a physician immediately.

MATERIAL SAFETY DATA SHEET FOR AZOLLA ZS (All grades)

TOTAL Lubricants USA Southwest
400 Chisholm Place, Suite 418
Plano, Texas 75075

TOTAL Lubricants USA, Inc.
5 N. Stiles Street
Linden NJ 07036

REVISION DATE
N/A

DATE ISSUED
1-June-2009

PREPARED BY: Alan Denniston

VP PRODUCT MANAGEMENT

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MATERIAL SAFETY DATA SHEET FOR AZOLLA ZS (All grades)

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400 Chisholm Place, Suite 418
Plano, Texas 75075

TOTAL Lubricants USA, Inc.
5 N. Stiles Street
Linden NJ 07036

REVISION DATE
N/A

DATE ISSUED
1-June-2009

Medical Conditions Aggravated by Exposure: Unknown

This product does NOT contain any ingredients identified as carcinogenic by IARC, NTP, or OSHA.

SARA Section 313 Status: This material is not known to contain any chemicals on the SARA Section 313 list at a concentration greater than 1.0 percent or carcinogenic chemical on that list at a concentration greater than 0.1 percent.

SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Keep product out of sewers and watercourses by diking or impounding. Absorb with sand or inert material. Sweep or scoop up and remove. Prevent spread of spill. Advise authorities if product has entered or may enter sewers, watercourses or extensive land areas. Assure conformity with local regulations.

WASTE DISPOSAL METHOD: (Consult federal, state, or local authorities for proper disposal procedures.)

Assure conformity with applicable disposal regulations. Dispose of absorbed material at an approved waste site or facility.

PROTECTION AND PRECAUTIONS

VENTILATION: (Always maintain below permissible exposure limits.)

Use local exhaust to capture vapor, mist or fumes, if necessary. Provide ventilation sufficient to prevent exceeding recommended exposure limit or buildup of explosive concentrations of vapor in air.

RESPIRATORY PROTECTION: (Use only NIOSH approved equipment.)

Normally not needed at ambient temperatures. Use supplied air respiratory protection in confined or enclosed spaces, if needed. Use filter, dust, fume, or mist respirator type under misting conditions. Use can or cartridge; gas or vapor respirator type under conditions exceeding TWA standard.

PROTECTIVE GLOVES:

Use chemical-resistant gloves, if needed, to avoid prolonged or repeated skin contact.

EYE PROTECTION:

Use splash goggles or face shield when eye contact may occur.

OTHER PROTECTIVE EQUIPMENT:

Use chemical-resistant apron or other impervious clothing, if needed, to avoid contaminating regular clothing which could result in prolonged or repeated skin contact.

WORK PRACTICES/ENGINEERING CONTROLS:

Keep containers closed when not in use. Do not handle near heat, sparks, flame or strong oxidants.

PERSONAL HYGIENE:

Minimize breathing vapor, mist, or fumes. Avoid prolonged or repeated contact with skin. Remove contaminated clothing; launder or dry-clean before reuse. Remove contaminated shoes and thoroughly clean before reuse; discard if oil-soaked. Cleanse skin thoroughly after contact, before breaks and meals, and at end of work period. Product is readily removed from skin by waterless hand cleaners followed by washing thoroughly with soap and water.

MATERIAL SAFETY DATA SHEET FOR AZOLLA ZS (All grades)

TOTAL Lubricants USA Southwest
400 Chisholm Place, Suite 418
Plano, Texas 75075

TOTAL Lubricants USA, Inc.
5 N. Stiles Street
Linden NJ 07036

REVISION DATE
N/A

DATE ISSUED
1-June-2009

EFFECTS OF OVEREXPOSURE (Signs and symptoms of exposure):
Prolonged or repeated skin contact with this product tends to remove skin oils possibly leading to irritation and dermatitis.
Product contacting the eye may cause irritation.
Product has a low order of oral and dermal toxicity.
Possible aspiration hazard.
Induced vomiting may cause aspiration of product into the lungs.
(See Emergency First Aid Section).

PHYSICAL DATA

The following data are approximate or typical values and should not be used for precise design purposes.

BOILING RANGE: Wide range	VAPOR PRESSURE: < 0.1 @ 38°C/100°F
SPECIFIC GRAVITY (25°C/25°C): (WATER = 1) < 1.0	VAPOR DENSITY (AIR = 1): > 8
MOLECULAR WEIGHT: Wide range	PERCENT VOLATILE BY VOLUME: Negligible
EVAPORATION RATE @ 1 ATM. AND 25°C (77°F) (n-BUTYL ACETATE = 1): < 1.0	SOLUBILITY IN WATER @ 1 ATM. and 25°C (77°F): Negligible
POUR, CONGEALING OR MELTING POINT: n/e	FREEZING POINT: n/e

REACTIVITY

This product is stable and will NOT react violently with water. Hazardous olymerization will not occur. Avoid contact with strong oxidants such as liquid chlorine, concentrated oxygen, sodium hypochlorite or calcium hypochlorite, etc., as this represents a serious explosion hazard.

DECOMPOSITION PRODUCTS UNDER FIRE CONDITIONS:
Fumes, smoke, carbon monoxide, oxides of sulfur, and other decomposition products, in case of incomplete combustion.

CONDITIONS TO AVOID:
Open flames

TOXICITY

ORAL (Acute)	N/E
DERMAL (Acute)	N/E
EYE	N/E
INHALATION (Acute)	N/E
CHRONIC, SUBCHRONIC, ETC.	N/E

MATERIAL SAFETY DATA SHEET FOR AZOLLA ZS (All grades)

TOTAL Lubricants USA Southwest
400 Chisholm Place, Suite 418
Plano, Texas 75075

TOTAL Lubricants USA, Inc.
5 N. Stiles Street
Linden NJ 07036

REVISION DATE
N/A

DATE ISSUED
1-June-2009

INGESTION:

If ingested, do not induce vomiting. Call a physician immediately.

FIRE AND EXPLOSION HAZARD INFORMATION

FLASH POINT (MINIMUM):
179°C (355°F) Test method: COC

AUTOIGNITION TEMPERATURE:
N/E

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) - HAZARD IDENTIFICATION:

Health	Flammability	Reactivity
0	1	0

FLAMMABLE OR EXPLOSIVE LIMITS (approximate percent by volume in air):
Estimated values: lower: N/E upper: N/E

EXTINGUISHING MEDIA AND FIRE FIGHTING PROCEDURES:

Foam, water spray (fog), dry chemical, carbon dioxide and vaporizing liquid type extinguishing agents may all be suitable for extinguishing fires involving this type product, depending on size or potential size of fire and circumstances related to the situation. Plan fire protection and response strategy through consultation with local fire protection authorities or appropriate specialists.

The following procedures for this type of product are based on the recommendations in the National Fire Protection Association's "Fire Protection Guide on Hazardous Materials", Eighth Edition (1984):

Use water spray, dry chemical, foam, or carbon dioxide. Water or foam may cause frothing. Use water to keep fire-exposed containers cool. Water froth may be used to flush spills away from exposure. Minimize breathing gases, vapor, fumes, or decomposition products. Use supplied-air breathing equipment for enclosed or confined spaces or as otherwise needed.

UNUSUAL FIRE AND EXPLOSION HAZARDS:
n/a

"EMPTY" CONTAINER WARNING:

Empty containers retain residue (liquid or vapor) and can be dangerous. DO NOT PRESSURIZE, WELD, CUT BRAZE, SOLDER, DRILL, GRIND OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, OR OTHER SOURCES OF IGNITION; THEY MAY EXPLODE AND CAUSE INJURY OR DEATH. Do not attempt to clean since residue is difficult to remove. "Empty" drums should be completely drained, properly bunged, and returned to a drum reconditioner. All other containers should be disposed of in an environmentally safe manner and in accordance with government regulations. For work on tanks refer to Occupational Safety and Health Administration regulations, ANSI Z49.1, and other governmental and industrial references pertaining to cleaning, repairing, welding, or other contemplated operations.

HEALTH AND HAZARD INFORMATION

EXPOSURE LIMIT FOR TOTAL PRODUCT: Monitor data listed in the Components and Hazard Information section.

VARIABILITY AMONG INDIVIDUALS:

Health studies have shown that many petroleum hydrocarbons and synthetic lubricants pose potential human health risks which vary from person to person. As a precaution, exposure to liquids, vapors, mists, or fumes should be minimized.

MATERIAL SAFETY DATA SHEET FOR AZOLLA ZS (All grades)

TOTAL Lubricants USA Southwest
400 Chisholm Place, Suite 418
Plano, Texas 75075

TOTAL Lubricants USA, Inc.
5 N. Stiles Street
Linden NJ 07036

REVISION DATE
N/A

DATE ISSUED
1-June-2009

IDENTIFICATION AND EMERGENCY INFORMATION

PRODUCT NAME: AZOLLA ZS (ISO 32 to 150)	PRODUCT #: 1-15050; 1-15060 to 1-15064
CHEMICAL NAME: N/A - Mixture	CAS #'S: Mixture
PRODUCT APPEARANCE AND ODOR: Amber liquid, petroleum odor	CHEMICAL FAMILY: Petroleum hydrocarbon
SYNONYMS: Petroleum-based AW hydraulic oil	EMERGENCY TELEPHONE: 1-800-442-5823 or 1-908-862-9300

COMPONENTS AND HAZARD INFORMATION

COMPONENTS:	W/W HAZARD DATA (TLV, LD50, LC50, ETC.):
Petroleum based lubricating oil	5 mg/m3 TWA (OSHA, ACGIH)
CAS# 64742-54-7, 64742-65-0,	(as an oil mist)
64741-89-5, 64741-88-4*	

* Paraffinic base oil used are not limited to but include these CAS numbers.

HAZARDOUS MATERIALS IDENTIFICATION SYSTEM (HMIS):

Health	Flammability	Reactivity
0	1	0

TRANSPORTATION INFORMATION

TRANSPORTATION/SHIPPING INFORMATION:

Department of Transportation (DOT): Not regulated

EMERGENCY FIRST AID

EYE CONTACT:

If splashed into the eyes, flush with clear water for 15 minutes or until irritation subsides. If irritation persists, call a physician.

SKIN CONTACT:

In case of skin contact, remove contaminated clothing and wash skin thoroughly with soap and water.

INHALATION:

Vapor pressure is very low. Vapor inhalation under ambient conditions is normally not a problem. If overcome by vapor from hot product, immediately remove from exposure and call a physician. If breathing is irregular or has stopped, start resuscitation; administer oxygen if available. If overexposure to oil mist, remove from further exposure until excessive oil mist condition subsides.

MATERIAL SAFETY DATA SHEET FOR NEPTUNA 2T SUPER SPORT

TOTAL Lubricants USA Southwest
400 Chisholm Place, Suite 418
Plano, Texas 75075

TOTAL Lubricants USA, Inc.
5 N. Stiles Street
Linden NJ 07036

REVISION DATE
N/A

DATE ISSUED
1-June-2009

OTHER REGULATORY INFORMATION

SARA SECTION 301-304--THRESHOLD PLANNING QUANTITY (TPQ):

No TPQ for product or any constituent greater than 1% or 0.1% (carcinogen).

SARA SECTION 313 - TOXIC CHEMICALS:

This product does not contain toxic chemicals under SARA Section 313 and 40 CFR Part 372.

SARA SECTION 311 - HAZARD CATEGORIES:

This product may meet one or more of the criteria for the hazard categories defined in 40 CFR Part 370 as established by Sections 311 and 312 of SARA as indicated below:

NO	IMMEDIATE (ACUTE) HEALTH HAZARD	NO	SUDDEN RELEASE OF PRESSURE HAZARD
NO	DELAYED (CHRONIC) HEALTH HAZARD	NO	REACTIVE HAZARD
NO	FIRE HAZARD		

SARA SECTION 302 - EXTREMELY HAZARDOUS WASTE:

This product is not known to contain any components in concentrations greater than one percent that are listed as Extremely Hazardous Substances in 40 CFR Part 355 pursuant to the requirements of Section 302(a) of SARA.

CLEAN WATER ACT (CWA):

Under the CWA, discharges of crude oil and petroleum products to surface water without proper Federal and State permits must be reported immediately to the National Response Center at (800) 424-8802.

CERCLA HAZARDOUS SUBSTANCES:

As defined by CERCLA, the term "hazardous substance" does not include petroleum, including crude oil or any fraction thereof, which is not otherwise specifically listed or designated as a hazardous substance.

U.S. TSCA INVENTORY

All components of this material are listed on the U.S. TSCA Inventory.

CALIFORNIA PROPOSITION 65

This product is not known to contain any components for which the State of California has found to cause cancer, birth defects or other reproductive harm.

NEW JERSEY RIGHT-TO-KNOW LABEL

Petroleum distillate.

PREPARED BY: Alan Denniston

VP PRODUCT MANAGEMENT

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MATERIAL SAFETY DATA SHEET FOR NEPTUNA 2T SUPER SPORT

TOTAL Lubricants USA Southwest
400 Chisholm Place, Suite 418
Plano, Texas 75075

TOTAL Lubricants USA, Inc.
5 N. Stiles Street
Linden NJ 07036

REVISION DATE
N/A

DATE ISSUED
1-June-2009

Medical Conditions Aggravated by Exposure: Unknown

This product does NOT contain any ingredients identified as carcinogenic by IARC, NTP, or OSHA.

SARA Section 313 Status: This material is not known to contain any chemicals on the SARA Section 313 list at a concentration greater than 1.0 percent or carcinogenic chemical on that list at a concentration greater than 0.1 percent.

SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Keep product out of sewers and watercourses by diking or impounding. Absorb with sand or inert material. Sweep or scoop up and remove. Prevent spread of spill. Advise authorities if product has entered or may enter sewers, watercourses or extensive land areas. Assure conformity with local regulations.

WASTE DISPOSAL METHOD: (Consult federal, state, or local authorities for proper disposal procedures.)

Assure conformity with applicable disposal regulations. Dispose of absorbed material at an approved waste site or facility.

PROTECTION AND PRECAUTIONS

VENTILATION: (Always maintain below permissible exposure limits.)

Use local exhaust to capture vapor, mist or fumes, if necessary. Provide ventilation sufficient to prevent exceeding recommended exposure limit or buildup of explosive concentrations of vapor in air.

RESPIRATORY PROTECTION: (Use only NIOSH approved equipment.)

Normally not needed at ambient temperatures. Use supplied air respiratory protection in confined or enclosed spaces, if needed. Use filter, dust, fume, or mist respirator type under misting conditions. Use can or cartridge; gas or vapor respirator type under conditions exceeding TWA standard.

PROTECTIVE GLOVES:

Use chemical-resistant gloves, if needed, to avoid prolonged or repeated skin contact.

EYE PROTECTION:

Use splash goggles or face shield when eye contact may occur.

OTHER PROTECTIVE EQUIPMENT:

Use chemical-resistant apron or other impervious clothing, if needed, to avoid contaminating regular clothing which could result in prolonged or repeated skin contact.

WORK PRACTICES/ENGINEERING CONTROLS:

Keep containers closed when not in use. Do not handle near heat, sparks, flame or strong oxidants.

PERSONAL HYGIENE:

Minimize breathing vapor, mist, or fumes. Avoid prolonged or repeated contact with skin. Remove contaminated clothing; launder or dry-clean before reuse. Remove contaminated shoes and thoroughly clean before reuse; discard if oil-soaked. Cleanse skin thoroughly after contact, before breaks and meals, and at end of work period. Product is readily removed from skin by waterless hand cleaners followed by washing thoroughly with soap and water.

MATERIAL SAFETY DATA SHEET FOR NEPTUNA 2T SUPER SPORT

TOTAL Lubricants USA Southwest
400 Chisholm Place, Suite 418
Plano, Texas 75075

TOTAL Lubricants USA, Inc.
5 N. Stiles Street
Linden NJ 07036

REVISION DATE
N/A

DATE ISSUED
1-June-2009

EFFECTS OF OVEREXPOSURE (Signs and symptoms of exposure):
Prolonged or repeated skin contact with this product tends to remove skin oils possibly leading to irritation and dermatitis.
Product contacting the eye may cause irritation.
Product has a low order of oral and dermal toxicity.
Possible aspiration hazard.
Induced vomiting may cause aspiration of product into the lungs.
(See Emergency First Aid Section).

PHYSICAL DATA

The following data are approximate or typical values and should not be used for precise design purposes.

BOILING RANGE:
N/A

VAPOR PRESSURE:
N/A

SPECIFIC GRAVITY (25°C/25°C):
(WATER = 1)
0.86

VAPOR DENSITY (AIR = 1):
NA

MOLECULAR WEIGHT:
NA

PERCENT VOLATILE BY VOLUME:
Negligible

EVAPORATION RATE @ 1 ATM. AND 25°C
N/A

SOLUBILITY IN WATER @ 1 ATM. and 25°C
(77°F): insoluble

POUR, CONGEALING OR MELTING POINT:
-36 C (-33 F)

FREEZING POINT:
n/e

REACTIVITY

This product is stable and will NOT react violently with water. Hazardous olymerization will not occur. Avoid contact with strong oxidants such as liquid chlorine, concentrated oxygen, sodium hypochlorite or calcium hypochlorite, etc., as this represents a serious explosion hazard.

DECOMPOSITION PRODUCTS UNDER FIRE CONDITIONS:

Fumes, smoke, carbon monoxide, oxides of sulfur, and other decomposition products, in case of incomplete combustion.

CONDITIONS TO AVOID:
Open flames

TOXICITY

ORAL (Acute)	N/E
DERMAL (Acute)	N/E
EYE	N/E
INHALATION (Acute)	N/E
CHRONIC, SUBCHRONIC, ETC.	N/E

MATERIAL SAFETY DATA SHEET FOR NEPTUNA 2T SUPER SPORT

TOTAL Lubricants USA Southwest
400 Chisholm Place, Suite 418
Plano, Texas 75075

TOTAL Lubricants USA, Inc.
5 N. Stiles Street
Linden NJ 07036

REVISION DATE
N/A

DATE ISSUED
1-June-2009

INGESTION:

If ingested, do not induce vomiting. Call a physician immediately.

FIRE AND EXPLOSION HAZARD INFORMATION

FLASH POINT (MINIMUM):

>97°C (>207°F) Test method: COC

AUTOIGNITION TEMPERATURE:

NA

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) - HAZARD IDENTIFICATION:

Health	Flammability	Reactivity
0	1	0

FLAMMABLE OR EXPLOSIVE LIMITS (approximate percent by volume in air):

Estimated values: lower: NA upper: NA

EXTINGUISHING MEDIA AND FIRE FIGHTING PROCEDURES:

Foam, water spray (fog), dry chemical, carbon dioxide and vaporizing liquid type extinguishing agents may all be suitable for extinguishing fires involving this type product, depending on size or potential size of fire and circumstances related to the situation. Plan fire protection and response strategy through consultation with local fire protection authorities or appropriate specialists.

The following procedures for this type of product are based on the recommendations in the National Fire Protection Association's "Fire Protection Guide on Hazardous Materials", Eighth Edition (1984):

Use water spray, dry chemical, foam, or carbon dioxide. Water or foam may cause frothing. Use water to keep fire-exposed containers cool. Water froth may be used to flush spills away from exposure. Minimize breathing gases, vapor, fumes, or decomposition products. Use supplied-air breathing equipment for enclosed or confined spaces or as otherwise needed.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

n/a

"EMPTY" CONTAINER WARNING:

Empty containers retain residue (liquid or vapor) and can be dangerous. DO NOT PRESSURIZE, WELD, CUT BRAZE, SOLDER, DRILL, GRIND OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, OR OTHER SOURCES OF IGNITION; THEY MAY EXPLODE AND CAUSE INJURY OR DEATH. Do not attempt to clean since residue is difficult to remove. "Empty" drums should be completely drained, properly bunged, and returned to a drum reconditioner. All other containers should be disposed of in an environmentally safe manner and in accordance with government regulations. For work on tanks refer to Occupational Safety and Health Administration regulations, ANSI Z49.1, and other governmental and industrial references pertaining to cleaning, repairing, welding, or other contemplated operations.

HEALTH AND HAZARD INFORMATION

EXPOSURE LIMIT FOR TOTAL PRODUCT: Monitor data listed in the Components and Hazard Information section.

VARIABILITY AMONG INDIVIDUALS:

Health studies have shown that many petroleum hydrocarbons and synthetic lubricants pose potential human health risks which vary from person to person. As a precaution, exposure to liquids, vapors, mists, or fumes should be minimized.

MATERIAL SAFETY DATA SHEET FOR NEPTUNA 2T SUPER SPORT

TOTAL Lubricants USA Southwest
400 Chisholm Place, Suite 418
Plano, Texas 75075

TOTAL Lubricants USA, Inc.
5 N. Stiles Street
Linden NJ 07036

REVISION DATE
N/A

DATE ISSUED
1-June-2009

IDENTIFICATION AND EMERGENCY INFORMATION

PRODUCT NAME:
NEPTUNA 2T SUPER SPORT

PRODUCT #:
1-13101

CHEMICAL NAME:
N/A MIXTURE

CAS #'S:
MIXTURE

PRODUCT APPEARANCE AND ODOR:
Blue liquid, petroleum odor

CHEMICAL FAMILY:
Petroleum hydrocarbon

SYNONYMS:
2-stroke outboard engine oil

EMERGENCY TELEPHONE:
1-800-442-5823 or 1-908-862-9300

COMPONENTS AND HAZARD INFORMATION

COMPONENTS	CAS NO.	%	HAZARD DATA
Highly-refined paraffinic petroleum oils	64741-89-5 or 64741-88-4	40-60	*
Petroleum hydrocarbon distillates	8052-41-3	20-40	
Residual oils, petroleum, solvent refined	64742-62-7 or 64742-01-4	4-10	
Proprietary additives	Proprietary	25-35	

*This product consists predominantly of C12-C14 saturated hydrocarbons with about 1% C-11+aromatics.

HAZARDOUS MATERIALS IDENTIFICATION SYSTEM (HMIS):

Health	Flammability	Reactivity
0	1	0

TRANSPORTATION INFORMATION

TRANSPORTATION/SHIPPING INFORMATION:
Not regulated by DOT

EMERGENCY FIRST AID

EYE CONTACT:

If splashed into the eyes, flush with clear water for 15 minutes or until irritation subsides. If irritation persists, call a physician.

SKIN CONTACT:

In case of skin contact, remove contaminated clothing and wash skin thoroughly with soap and water.

INHALATION:

Vapor pressure is very low. Vapor inhalation under ambient conditions is normally not a problem. If overcome by vapor from hot product, immediately remove from exposure and call a physician. If breathing is irregular or has stopped, start resuscitation; administer oxygen if available. If overexposure to oil mist, remove from further exposure until excessive oil mist condition subsides.

This product is not known to contain any components in concentrations greater than one percent that are listed as Extremely Hazardous Substances in 40 CFR Part 355 pursuant to the requirements of Section 302(a) of SARA.

CLEAN WATER ACT (CWA):

Under the CWA, discharges of crude oil and petroleum products to surface water without proper Federal and State permits must be reported immediately to the National Response Center at (800) 424-8802.

CERCLA HAZARDOUS SUBSTANCES:

As defined by CERCLA, the term "hazardous substance" does not include petroleum, including crude oil or any fraction thereof, which is not otherwise specifically listed or designated as a hazardous substance.

U.S. TSCA INVENTORY

All components of this material are listed on the U.S. TSCA Inventory.

CALIFORNIA PROPOSITION 65

This product is not known to contain any components for which the State of California has found to cause cancer, birth defects or other reproductive harm.

NEW JERSEY RIGHT-TO-KNOW LABEL

Petroleum oil.

ADDITIONAL REGULATORY REMARKS

None.

16. OTHER INFORMATION

The information in this Material Safety Data Sheet should be provided to all who will use, handle, store, transport, or otherwise be exposed to this product. This information was prepared for the guidance of plant engineering, operations and management and for persons working with or handling this product. Lubricants USA believes this information to be reliable and up to date as of the date of publication, but makes no warranty that it is.

NFPA HAZARD RATING	least - 0	slight - 1	moderate - 2	high - 3	extreme - 4
HMIS HEALTH RATING	least - 0	slight - 1	moderate - 2	high - 3	extreme - 4

AP = approximately EQ = equal > = greater than < = less than NA = not applicable
ND = no data NE = not established

ACGIH = American Conference of Governmental Industrial Hygienists
CERCLA = Comprehensive Environmental Response, Compensation and Liability Act (1980)
EPA = Environmental Protection Agency
IARC = International Agency for Research on Cancer
NIOSH = National Institute of Occupational Safety and Health
NPCA = National Paint and Coating Manufacturers Association
OSHA = Occupational Safety and Health Administration
SARA = Superfund Amendments and Reauthorization Act (1986)

AIHA = American Industrial Hygiene Association
HMIS = Hazardous Materials Information System
NFPA = National Fire Protection Association
NLGI = National Lubricating Grease Institute
NTP = National Toxicology Program
RQ = Reportable quantity
TSCA = Toxic Substance Control Act

11. TOXICOLOGICAL INFORMATION

EYE IRRITATION:	This product can cause mild, transient, eye irritation with short-term contact with liquid or sprays.
DERMAL IRRITATION:	This material can cause mild, transient skin irritation with short-term exposure.
INHALATION TOXICITY:	No significant adverse health effects are expected to occur upon short-term exposure to this product. Aspiration of liquid into the lungs can cause severe lung damage or death.
INGESTION IRRITATION:	If swallowed, no significant adverse health effects are anticipated. Ingestion can cause mild irritation to the digestive tract or cause a laxative effect.
INJECTION SENSITATION:	Injection under the skin, in muscle, or into the blood stream can cause irritation, inflammation, swelling, fever, and systemic effects and mild central nervous system depression. Injection of pressurized hydrocarbons can cause severe, permanent tissue damage. Initial symptoms may be minor. Injection of petroleum hydrocarbons requires immediate medical attention.
CHRONIC EXPOSURE SYMPTOMS	Prolonged or repeated contact is toxic to lungs, digestive system, skin and eyes.
OTHER REMARKS	LD50 and LC 50 NOT AVAILABLE.

12. HEALTH INFORMATION

HMIS CODE: HEALTH: 1 FIRE: 1 REACTIVITY: 0

No	HIGHLY TOXIC	No	SENSITIZER
No	TOXIC	No	REPRODUCTIVE EFFECTS
No	CORROSIVE	No	MUTAGEN
No	IRRITANT		

13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL: It is the responsibility of the user to determine if the material is a hazardous waste at the time of disposal. Determine compliance status with all applicable requirements prior to disposal.

14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)

PROPER SHIPPING NAME:	Petroleum lubricating oil.
HAZARD CLASS:	Not a DOT controlled material (United States).
HAZARD IDENTIFICATION NUMBER:	N/A
DOT PLACARD:	N/A
COMPATIBILITY CATEGORY:	N/A

15. REGULATORY INFORMATION

SARA SECTION 313 - TOXIC CHEMICALS:

This product does not contain toxic chemicals under SARA Section 313 and 40 CFR Part 372.

SARA SECTION 311 - HAZARD CATEGORIES:

This product may meet one or more of the criteria for the hazard categories defined in 40 CFR Part 370 as established by Sections 311 and 312 of SARA as indicated below:

NO	IMMEDIATE (ACUTE) HEALTH HAZARD	NO	SUDDEN RELEASE OF PRESSURE HAZARD
NO	DELAYED (CHRONIC) HEALTH HAZARD	NO	REACTIVE HAZARD
NO	FIRE HAZARD		

SARA SECTION 302 - EXTREMELY HAZARDOUS WASTE:

Product Code(s) 123xx

Source Codes ppb

	gloves when handling product at elevated temperatures.
EYE PROTECTION:	Safety glasses equipped with side shields should be adequate protection under most conditions of use. Wear goggles and/or face shield if splashing or spraying is likely, especially if material is heated above 125° F (or 51° C). Have suitable eye wash water available.
RESPIRATORY PROTECTION:	Vaporization or misting is not expected at ambient temperatures. Therefore, the need for respiratory protection is not anticipated under normal use conditions and with adequate ventilation. If elevated airborne concentrations above applicable workplace exposure levels are anticipated, a NIOSH-approved organic vapor respirator equipped with a dust/mist prefilter should be used. Protection factors vary depending upon the type of respirator used. Respirators should be used in accordance with OSHA requirements (29 CFR 1910.134).
CLOTHING RECOMMENDATION:	Avoid prolonged and/or repeated skin contact, especially after this product has been used in a crankcase. If splashing or spraying is expected chemical-resistant (Tyvek®, nitrile or neoprene) clothing should be worn. This might include long-sleeves, apron, slicker suit, boots and additional facial protection. If general contact occurs, promptly remove soaked clothing and take a shower.
OTHER COMMENTS:	Use good personal hygiene practices. Wash hands and other exposed skin areas with plenty of mild soap and water before eating, drinking, smoking, use of toilet facilities or leaving work. DO NOT use gasoline, kerosene, solvents or harsh abrasives as skin cleaners. Since standards/control limits have not been established for this product, the exposure limits shown below are suggested as minimum control guidelines.
Occupational exposure guidelines for highly-refined petroleum lubricant oils	Applicable workplace exposure levels TWA: 5 STEL; 10 (mg/M ³) from ACGIH (TLV) TWA: 5 (mg/ M ³) from OSHA (PEL) TWA: 5 STEL; 10 (mg/ M ³) from NIOSH

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	Red liquid
ODOR:	Mild petroleum odor
pH:	N/A
VAPOR PRESSURE, mm Hg (25°C):	<0.0001
VAPOR DENSITY:	>1 (Air =1)
MELTING POINT:	Not available
BOILING POINT, 760 mm Hg, °C:	>550 F
SOLUBILITY IN WATER:	Insoluble in cold water.
SPECIFIC GRAVITY:	0.87 (Water = 1)
EVAPORATION RATE:	N/A
VISCOSITY 40°C (100°C)	33 cSt @ 40 C (8.3 cSt @ 100°C)
MOLECULAR WEIGHT:	N/A
PERCENT VOLATILE:	Negligible volatility

10. STABILITY AND REACTIVITY

STABILITY:	Stable
INCOMPATIBILITY:	Strong oxidizers
POLYMERIZATION:	Not expected to occur
THERMAL DECOMPOSITION:	CO ₂ , CO, smoke, fumes, unburned hydrocarbons and trace oxides of sulfur, nitrogen and phosphorus.

	conscious. Seek medical attention immediately.
INHALATION:	Move victim to fresh air. If victim is not breathing, immediately begin rescue breathing. If breathing is difficult, a qualified individual should administer 100 percent humidified oxygen. Seek medical attention immediately. Keep the affected individual warm and at rest.
INJECTION:	Injection of pressurized hydrocarbons can cause severe, permanent tissue damage. Initial symptoms may be minor. Injection of petroleum hydrocarbons requires immediate medical attention.

5. FIRE FIGHTING MEASURES

FLASH POINT, °C (°F):	>180°C(356+°F)
FLAMMABLE LIMITS (% BY VOLUME):	LOWER: NO DATA UPPER: NO DATA
EXTINGUISHING MEDIA:	Use dry chemical, foam, carbon dioxide or water fog.
SPECIAL FIRE FIGHTING PROCEDURES:	N/A
AUTOIGNITION TEMPERATURE:	440+ F
EXPLOSION DATA:	N/A
NFPA RATING:	HEALTH: <u>1</u> FLAMMABILITY: <u>1</u> REACTIVITY <u>0</u>

6. ACCIDENTAL RELEASE MEASURES

SPILL PROCEDURES:	Do not touch damaged containers or spilled material unless wearing appropriate protective equipment. Slipping hazard—do not walk through spilled material. Stop leak if you can do so without risk. For small spills, absorb or cover with dry earth, sand, or other inert non-combustible absorbent material and place into waste containers for later disposal. Contain large spills to maximize product recovery or disposal. Prevent entry into waterways or sewers. In urban area, cleanup spills as soon as possible. In natural environments, seek cleanup advice from specialists to minimize physical habitat damage. This material will float on water. Absorbent pads and similar materials can be used. Comply with all laws and regulations.
Ecotoxicity	Ecological effects testing has not been conducted on this material. Discharges are expected to cause only localized and non-persistent environmental damage.
Environmental fate	An environmental fate analysis has not been conducted on this specific product. However, plants and animals may experience harmful or fatal effects when coated with petroleum-based products. Petroleum-based (mineral) lube oils will normally float on water. In stagnant or slow-flowing waterways, an oil layer can cover a large surface area. As a result, this oil layer might limit or eliminate natural atmospheric oxygen transport into the water. With time, if not removed, oxygen depletion in the waterway can result in a loss of marine life or create an anaerobic environment. This material contains phosphorus, which is a controlled element for disposal in effluent waters in most sections of North America. Phosphorus is known to enhance the formation of algae. Severe algae growth can reduce oxygen content in the water possibly below levels necessary to support marine life.

7. HANDLING AND STORAGE

HANDLING & STORAGE PROCEDURES:	Avoid water contamination and extreme temperatures to minimize product degradation. Keep container closed. Do not store with strong oxidizing agents. Do not store at temperatures above 120°F or in direct sunlight for extended periods of time.
	Empty containers may contain product residues that can ignite with explosive force. Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to flames, sparks, heat or other potential ignition sources. Consult appropriate federal, state and local authorities before reusing, reconditioning, reclaiming, recycling or disposing of empty containers and/or waste residues of this product.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS:	Provide exhaust ventilation or other engineering controls to keep the airborne concentration of mists and/or vapors below the recommended exposure limits. An eye wash station and safety shower should be located near the workstation.
GLOVES PROTECTION:	Use gloves constructed of chemical resistant materials such as neoprene or heavy nitrile rubber if frequent or prolonged contact is expected. Use heat protective



400 Chisholm Place, Suite 418
Plano, Texas 75075

Telephone: (469)241-0950 Telecopier: (469)241-0956

MATERIAL SAFETY DATA SHEET

EMERGENCY OVERVIEW

This slippery red liquid has a mild odor. No significant immediate hazards for emergency response are known.

NFPA RATING: HEALTH: 1 FLAMMABILITY: 1 REACTIVITY: 0

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

GENERIC NAME: LUBRICATING OIL--ATF

ISSUE DATE:

May 23, 2005

THIS LUBRICANTS USA PRODUCT IS:

SYNPRO ATF

CAS NUMBER:

Mixture

SYNONYMS / GENERAL NAMES:

Automatic transmission oil

24 HOUR EMERGENCY TELEPHONE:

(CHEMTREC) 1-800-424-9300

TECHNICAL INFORMATION:

1-800-442-5823

2. COMPOSITION / INFORMATION ON INGREDIENTS / HAZARDOUS INGREDIENTS

COMPONENTS	CAS NO.	%	HAZARD DATA
1) Base Lubricating oils*	Mixture	80-90	*
2) Petroleum additives	Proprietary	20-9	
3) Dye	Proprietary	<0.1	

* Not limited to but include these CAS numbers. Hazard data on this petroleum oil is Oral LD 50 >5000, Dermal LD 50 >2000

HAZARDOUS INGREDIENTS:

NONE

HAZARDOUS PER 29 CFR 1916.1200:

NO

3. HAZARDOUS IDENTIFICATION

ROUTES OF ENTRY:	Skin contact
TARGET ORGANS:	Skin
IRRITANCY:	This product can cause mild, transient, eye irritation with short-term contact with liquids or sprays.
REPRODUCTIVE EFFECTS:	N/A
CANCER INFORMATION:	This product does not contain any components at concentrations above 0.1% that are considered carcinogenic by OSHA, IARC, or NTP.

4. FIRST AID MEASURES

EYES:	Check for and remove contact lenses. Flush eyes with cool, clean, low-pressure water while occasionally lifting and lowering eyelids. Seek medical attention if excessive tearing, redness or pain persists.
DERMAL:	Remove contaminated shoes and clothing, wipe off excess material. Wash exposed skin with soap and water. Seek medical attention if tissue appears damaged or if irritation persists. Thoroughly clean contaminated clothing before reuse. Discard contaminated leather goods.
INGESTION:	Do not induce vomiting unless directed to by a physician. Do not give anything to drink unless directed to by a physician. Never give anything by mouth to a person who is not fully

Product Code(s) 123xx

Source Codes ppb