ROTELLA(R) T 15W-40 WITH ADVANCED SOOT CONTROL 50012 01/26/98

SHELL MATERIAL SAFETY DATA SHEET

BE SAFE. READ OUR PRODUCT SAFETY INFORMATION ... AND PASS IT ON.

PRODUCT LIABILITY LAW REQUIRES IT!

******* MATERIAL SAFETY DATA SHEET 71630 - 11

ROTELLA(R) T 15W-40 WITH ADVANCED SH MSDS: 71630 - 11 T

01/26/98 SOOT CONTROL

MANUFACTURER'S NAME AND ADDRESS

SHELL OIL COMPANY

PRODUCT SAFETY & COMPLIANCE

P.O. BOX 4320

HOUSTON, TX 77210

TELEPHONE NUMBERS:

24 HOUR EMERGENCY ASSISTANCE

SHELL: 713-473-9461 CHEMTREC: 800-424-9300

GENERAL MSDS ASSISTANCE SHELL: 713-241-4819

SECTION I NAME

PRODUCT: ROTELLA(R) T 15W-40 WITH ADVANCED

SOOT CONTROL

CHEM NAME: MIXTURE (SEE SECTION II-A)

ACUTE HEALTH HAZARD:

1

CHEM FAMILY: PETROLEUM HYDROCARBON; MOTOR OIL FIRE HAZARD:

1

SHELL CODE: 50012 REACTIVITY:

0

SECTION II-A | PRODUCT/INGREDIENT

NO. COMPOSITION		CAS	PERCENT
====		========	
P ROTELLA T 15W-40 WITH AD	OVANCED	MIXTURE	100
1 HIGHLY REFINED PETROLEUM 2 ADDITIVES CONTAINING: 2A ZINC COMPOUND	1 OIL	MIXTURE* MIXTURE MIXTURE	20-30
MAY CONTAIN: 64742-54-7 NFPA HAZARD RATING: HEALTH	0 FIRE 1	REACTIVITY	0
SECTION II-B	ACUTE TOXICITY D	ATA 	
NO. ACUTE ORAL LD50	ACUTE DERMAL LD	50 AC	CUTE INHALATION
====			
P NOT AVAILABLE 1 >5.0 G/KG (RAT)*	-	NC IT)* NC	
* BASED ON API STUDIES			

THE HEALTH EFFECTS NOTED BELOW ARE CONSISTENT WITH REQUIREMENTS UNDER THE OSHA HAZARD COMMUNICATION STANDARD (29 CFR 1910.1200).

HEALTH INFORMATION

EYE CONTACT:

SECTION III |

LUBRICATING OILS ARE GENERALLY CONSIDERED NO MORE THAN MINIMALLY IRRITATING

TO THE EYES.

SKIN CONTACT:

LUBRICATING OILS ARE GENERALLY CONSIDERED NO MORE THAN MILDLY IRRITATING TO

THE SKIN. PROLONGED AND REPEATED CONTACT MAY RESULT IN VARIOUS SKIN DISORDERS SUCH AS DERMATITIS, FOLLICULITIS OR OIL ACNE.

INHALATION:

INHALATION OF VAPOR (GENERATED AT HIGH TEMPERATURES ONLY) OR OIL MIST FROM

THIS PRODUCT MAY RESULT IN MILD IRRITATION OF THE UPPER RESPIRATORY TRACT.

INGESTION:

LUBRICATING OILS ARE GENERALLY CONSIDERED NO MORE THAN SLIGHTLY TOXIC IF

SWALLOWED.

SIGNS AND SYMPTOMS:

IRRITATION AS NOTED ABOVE.

AGGRAVATED MEDICAL CONDITIONS:

PREEXISTING SKIN AND RESPIRATORY DISORDERS MAY BE AGGRAVATED BY EXPOSURE TO

THIS PRODUCT.

OTHER HEALTH EFFECTS:

THIS PRODUCT AND ITS COMPONENTS ARE NOT CLASSIFIED AS CARCINOGENS BY INTERNATIONAL AGENCY FOR RESEARCH ON CANCER (IARC), NATIONAL TOXOCOLOGY

PROGRAM (NTP) OR OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA).

THE INTERNATIONAL AGENCY FOR RESEARCH ON CANCER HAS DETERMINED THERE IS

SUFFICIENT EVIDENCE FOR THE CARCINOGENICITY IN EXPERIMENTAL ANIMALS OF USED

MOTOR OILS. HANDLING PROCEDURES AND SAFETY PRECAUTIONS IN THE MSDS SHOULD

BE FOLLOWED TO MINIMIZE EMPLOYEE'S EXPOSURE TO THE USED PRODUCT.

FOR A SPANISH TRANSLATION OF THIS MSDS, CALL 1-800-240-MSDS.

SECTION IV | OCCUPATIONAL EXPOSURE LIMITS

OSHA ACGIH

NO. PEL/TWA PEL/CEILING TLV/TWA TLV/STEL OTHER

P 5 MG/M3* NONE 5 MG/M3* 10 MG/M3*

*OIL MIST, MINERAL

SECTION V | EMERGENCY AND FIRST AID PROCEDURES

EYE CONTACT: FLUSH WITH WATER FOR 15 MINUTES WHILE HOLDING EYELIDS OPEN.

GET

MEDICAL ATTENTION.

SKIN CONTACT: REMOVE CONTAMINATED CLOTHING AND WIPE EXCESS OFF. WASH WITH

SOAP

AND WATER OR A WATERLESS HAND CLEANER FOLLOWED BY SOAP AND

WATER.

IF IRRITATION OCCURS, GET MEDICAL ATTENTION.

INHALATION: REMOVE VICTIM TO FRESH AIR AND PROVIDE OXYGEN IF BREATHING IS

DIFFICULT. GET MEDICAL ATTENTION.

INGESTION: DO NOT INDUCE VOMITING. IN GENERAL NO TREATMENT IS NECESSARY

UNLESS LARGE QUANTITIES OF PRODUCT ARE INGESTED. HOWEVER,

GET

MEDICAL ATTENTION.

NOTE TO PHYSICIAN: IN GENERAL, EMESIS INDUCTION IS UNNECESSARY IN HIGH

VISCOSITY, LOW VOLATILITY PRODUCTS, I.E., MOST OILS AND

GREASES.

	SUPPLEMENTAL HEALTH INFORMATION	
NONE IDENTIFIED.		
SECTION VII	PHYSICAL DATA	
BOILING POINT (DEG F): HG):	SPECIFIC GRAVITY (H20=1):	VAPOR PRESSURE (MM
NOT AVAILABLE	0.8844	<0.1
	SOLUBILITY (IN WATER):	VAPOR DENSITY
(AIR=1): -25 (POUR POINT)	NEGLIGIBLE	NOT AVAILABLE
VISCOSITY: 13-15 (CS @ 212 DEG F)		
EVAPORATION RATE (NORMAL	BUTYL ACETATE = 1): NOT AVAI	ILABLE

APPEARANCE AND ODOR: DARK AMBER OIL. SLIGHT HYDROCARBON ODOR.

FLASH POINT AND METHOD: FLAMMABLE LIMITS/% VOLUME IN AIR: 380 DEG F (PMCC) LOWER: N/AV UPPER: N/AV

EXTINGUISHING MEDIA:

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

SPECIAL FIRE FIGHTING PROCEDURES AND PRECAUTIONS:

MATERIAL WILL NOT BURN UNLESS PREHEATED. DO NOT ENTER CONFINED FIRE-SPACE

WITHOUT FULL BUNKER GEAR (HELMET WITH FACE SHIELD, BUNKER COATS, GLOVES AND

RUBBER BOOTS), INCLUDING A POSITIVE-PRESSURE NIOSH-APPROVED SELF-CONTAINED

BREATHING APPARATUS. COOL FIRE EXPOSED CONTAINERS WITH WATER.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

SECTION IX | REACTIVITY

STABILITY: STABLE HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

CONDITIONS AND MATERIALS TO AVOID:

AVOID HEAT, OPEN FLAMES AND OXIDIZING MATERIALS.

HAZARDOUS DECOMPOSITION PRODUCTS:

THERMAL DECOMPOSITION PRODUCTS ARE HIGHLY DEPENDENT ON THE COMBUSTION CONDITIONS. A COMPLEX MIXTURE OF AIRBORNE SOLID, LIQUID, PARTICULATES AND

GASES WILL EVOLVE WHEN THIS MATERIAL UNDERGOES PYROLYSIS OR COMBUSTION. CARBON MONOXIDE, HYDROGEN SULFIDE, AND OTHER UNIDENTIFIED ORGANIC COMPOUNDS

MAY BE FORMED UPON COMBUSTION.

SECTION X EMPLOYEE PROTECTION
RESPIRATORY PROTECTION: IF EXPOSURE MAY OR DOES EXCEED OCCUPATIONAL EXPOSURE LIMITS (SECTION IV) USE A NIOSH-APPROVED RESPIRATOR TO PREVENT OVEREXPOSURE. IN ACCORD WITH 29 CFR 1910.134 USE EITHER AN ATMOSPHERE-SUPPLYING RESPIRATOR OR AN AIR- PURIFYING RESPIRATOR FOR ORGANIC VAPORS AND PARTICULATES.
PROTECTIVE CLOTHING: WEAR CHEMICAL RESISTANT GLOVES AND OTHER PROTECTIVE CLOTHING AS REQUIRED TO MINIMIZE SKIN CONTACT. WEAR SAFETY GOGGLES TO AVOID EYE CONTACT. TEST DATA FROM PUBLISHED LITERATURE AND/OR GLOVE AND CLOTHING MANUFACTURERS INDICATE THE BEST PROTECTIVE MEASURES
ADDITIONAL PROTECTIVE MEASURES:
SECTION XI ENVIRONMENTAL PROTECTION

SPILL OR LEAK PROCEDURES:

MAY BURN ALTHOUGH NO READILY IGNITABLE. USE CAUTIOUS JUDGMENT WHEN CLEANING

UP LARGE SPILLS. *** LARGE SPILLS *** WEAR RESPIRATOR AND PROTECTIVE CLOTHING AS APPROPRIATE. SHUT OFF SOURCE OF LEAK IF SAFE TO DO SO. DIKE AND

CONTAIN. REMOVE WITH VACUUM TRUCKS OR PUMP TO STORAGE SALVAGE VESSELS. SOAK

UP RESIDUE WITH AN ABSORBENT SUCH AS CLAY, SAND, OR OTHER SUITABLE MATERIALS; DISPOSE OF PROPERLY. FLUSH AREA WITH WATER TO REMOVE TRACE RESIDUE. *** SMALL SPILLS *** TAKE UP WITH AN ABSORBENT MATERIAL AND DISPOSE OF
PROPERLY.
SECTION XII SPECIAL PRECAUTIONS
MINIMIZE SKIN CONTACT. WASH WITH SOAP AND WATER BEFORE EATING, DRINKING, SMOKING OR USING TOILET FACILITIES. LAUNDER CONTAMINATED CLOTHING BEFORE REUSE. PROPERLY DISPOSE OF CONTAMINATED LEATHER ARTICLES, INCLUDING SHOES, THAT CANNOT BE DECONTAMINATED.
STORE IN A COOL, DRY PLACE WITH ADEQUATE VENTILATION. KEEP AWAY FROM OPEN FLAMES AND HIGH TEMPERATURES.
SECTION XIII TRANSPORTATION REQUIREMENTS
DEPARTMENT OF TRANSPORTATION CLASSIFICATION: NOT HAZARDOUS BY D.O.T. REGULATIONS
D.O.T. PROPER SHIPPING NAME:
OTHER REQUIREMENTS:
SECTION XIV OTHER REGULATORY CONTROLS

THE COMPONENTS OF THIS PRODUCT ARE LISTED ON THE EPA/TSCA INVENTORY OF

CHEMICAL SUBSTANCES.

PROTECTION OF STRATOSPHERIC OZONE (PURSUANT TO SECTION 611 OF THE CLEAN AIR ACT

AMENDMENTS OF 1990): PER 40 CFR PART 82, THIS PRODUCT DOES NOT CONTAIN NOR WAS

IT DIRECTLY MANUFACTURED WITH ANY CLASS I OR CLASS II OZONE DEPLETING SUBSTANCES.

IN ACCORDANCE WITH SARA TITLE III, SECTION 313, THE ATTACHED ENVIRONMENTAL DATA

SHEET (EDS) SHOULD ALWAYS BE COPIED AND SENT WITH THE MSDS.

SECTION XV | STATE REGULATORY INFORMATION

THE FOLLOWING CHEMICALS ARE SPECIFICALLY LISTED BY INDIVIDUAL STATES; OTHER PRODUCT SPECIFIC HEALTH AND SAFETY DATA IN OTHER SECTIONS OF THE MSDS MAY ALSO

BE APPLICABLE FOR STATE REQUIREMENTS. FOR DETAILS ON YOUR REGULATORY REQUIREMENTS YOU SHOULD CONTACT THE APPROPRIATE AGENCY IN YOUR STATE.

STATE LISTED COMPONENT CAS NUMBER PERCENT STATE CODE

ZINC COMPOUND

NONE 1-2

CT, FL, IL,

LA,

MA, NJ, PA,

RΙ

CA = CALIFORNIA HAZ. SUBST. LIST; CA65C, CA65R, CA65C/R = CALIFORNIA SAFE DRINKING WATER AND TOXICS ENFORCEMENT ACT OF 1986 OR PROPOSITION 65 LIST; CT =

CONNECTICUT TOXIC. SUBST. LIST; FL = FLORIDA SUBST. LIST; IL = ILLINOIS

SUBST. LIST; LA = LOUISIANA HAZ. SUBST. LIST; MA = MASSACHUSETTS SUBST. LIST; ME = MAINE HAZ. SUBST. LIST; MN = MINNESOTA HAZ. SUBST. LIST; NJ

NEW JERSEY HAZ. SUBST. LIST; PA = PENNSYLVANIA HAZ. SUBST. LIST; RI = RHODE ISLAND HAZ. SUBST. LIST.

	SPECIAL NOTES	
	ROTELLA(R) T MULTIGRADE 15W-40 WITH XLA.	
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IS	IN IS BASED ON THE DATA AVAILABLE TO US AND	
BELIEVED TO BE CORRECT. HOWEVER, SHELL MAKES NO WARRANTY, EXPRESSED OR IMPLIED REGARDING THE ACCURACY OF THESE DATA OR THE RESULTS TO BE OBTAINED FROM TH		
USE THEREOF. SHELL ASSUMES NO RESP PRODUCT DESCRIBED HEREIN.	PONSIBILITY FOR INJURY FROM THE USE OF THE	
WE ARE PROVIDING OUR MOST RECENT MATERIAL SAFETY DATA SHEET AND/OR ENVIRONMENTAL DATA SHEET. IF YOU WISH TO RECEIVE UPDATES TO THIS INFORMATION,		
	OS ASSISTANCE LINE (713-241-4819) TO ENSURE	
BE SAFE. READ OUR PRODUCT SAFETY INFORMATIONAND	SHELL OIL COMPANY PRODUCT SAFETY AND	
COMPLIANCE PASS IT ON. (PRODUCT LIABILITY LAW REQUIRES IT)	P. O. BOX 4320 HOUSTON, TX. 77210	
***** ENVIRONM	MENTAL DATA SHEET 71630 - 05	

EDS: 71630 - 05 T

01/26/98

PRODUCT NAME: ROTELLA(R) T 15W-40 WITH ADVANCED SOOT CONTROL

PRODUCT CODE: 50012

MANUFACTURER'S NAME AND ADDRESS

SHELL OIL COMPANY P.O. BOX 4320

HOUSTON, TX 77210

TELEPHONE NUMBERS:

24 HOUR EMERGENCY ASSISTANCE

SHELL: 713-473-9461 CHEMTREC: 800-424-9300

SECTION II | SARA TITLE III INFORMATION

(*1) (*2) (*3) (*4)

NO. EHS RQ* EHS TPQ* SEC-313 313 CATEGORY 311/312

FOR ADDITIONAL INFORMATION ON THIS ENVIRONMENTAL DATA PLEASE

	CALL 713-241-2252	IIS ENVIRONMENTAL DATA	TELASE	
SEC	 TION I PRODUCT C	COMPOSITION		
NO.	 COMPOSITION	CAS	PERCENT	
===	==			
Р	ROTELLA T 15W-40 WITH ADVANCED SO CONTROL	OOT MIXTURE	100	
1	HIGHLY REFINED PETROLEUM OIL	MIXTURE*	70-80	
2	ADDITIVES CONTAINING:	MIXTURE	20-30	
2 A	ZINC COMPOUND	MIXTURE	1-2	
* M	AY CONTAIN: 64742-54-7			

CATEGORY

- *1 = REPORTABLE QUANTITY OF EXTREMELY HAZARDOUS SUBSTANCE, SEC 302
- *2 = THRESHOLD PLANNING QUANTITY, EXTREMELY HAZARDOUS SUBSTANCE, SEC 302
- *3 = TOXIC CHEMICAL, SEC 313
- *4 = CATEGORY AS REQUIRED BY SEC 313 (40 CFR 372.42), MUST BE USED ON TOXIC RELEASE INVENTORY FORM
- *5 = HAZARD CATEGORY FOR SARA SEC. 311/312 REPORTING

HEALTH: H-1 = IMMEDIATE (ACUTE) HEALTH HAZARD

H-2 = DELAYED (CHRONIC) HEALTH HAZARD

PHYSICAL: P-3 = FIRE HAZARD

P-4 = SUDDEN RELEASE OF PRESSURE HAZARD

P-5 = REACTIVE HAZARD

SECTION III | ENVIRONMENTAL RELEASE INFORMATION

THIS PRODUCT IS COVERED BY EPA'S COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION AND LIABILITY ACT (CERCLA) PETROLEUM EXCLUSION. THEREFORE, RELEASES TO AIR, LAND, OR WATER ARE NOT REPORTABLE UNDER CERCLA ("SUPERFUND"). HOWEVER, UNDER SECTION 311 OF EPA'S CLEAN WATER ACT (CWA),

THIS PRODUCT IS CONSIDERED AN OIL. AS SUCH, SPILLS INTO OR LEADING TO SURFACE WATERS THAT CAUSE A SHEEN MUST BE REPORTED TO THE NATIONAL RESPONSE

CENTER, 800-424-8802.

THIS PRODUCT IS AN OIL UNDER 49 CFR (DOT) PART 130. IF SHIPPED BY RAIL OR

HIGHWAY IN A TANK WITH A CAPACITY OF 3,500 GALLONS OR MORE, IT IS SUBJECT TO

THE REQUIREMENTS OF PART 130. MIXTURES OR SOLUTIONS IN WHICH THIS PRODUCT IS

PRESENT AT 10% OR MORE MAY ALSO BE SUBJECT TO THIS RULE.

SECTION IV	RCRA INFORMATION

IF THIS PRODUCT BECOMES A WASTE, IT WOULD NOT BE A HAZARDOUS WASTE BY RCRA

CRITERIA (40 CFR 261). PLACE IN AN APPROPRIATE DISPOSAL FACILITY IN COMPLIANCE WITH LOCAL REGULATIONS.

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WE ARE PROVIDING OUR MOST RECENT MATERIAL SAFETY DATA SHEET AND/OR ENVIRONMENTAL DATA SHEET. IF YOU WISH TO RECEIVE UPDATES TO THIS INFORMATION,

PLEASE CALL SHELL'S GENERAL MSDS ASSISTANCE LINE (713-241-4819) TO ENSURE THAT

YOU ARE ADDED TO SHELL'S REGULAR MSDS DISTRIBUTION SYSTEM.

SHELL OIL

COMPANY

P.O. BOX 4320 HOUSTON, TX

77210

FOR ADDITIONAL INFORMATION ON THIS ENVIRONMENTAL DATA PLEASE CALL (713) 241-2252

FOR EMERGENCY ASSISTANCE PLEASE CALL

SHELL: (713) 473-9461 CHEMTREC: (800) 424-9300

THIS MSDS HAS BEEN PROVIDED IN AN ELECTRONIC FORMAT FOR USE IN THE CHEMTREC EMERGENCY RESPONSE PROGRAM AND/OR OTHER APPROVED PROGRAMS. THIS FORMAT MAY CONTAIN BLANKS WHERE INFORMATION WAS NOT AVAILABLE OR NOT APPLICABLE AND THEREFORE MAY NOT BE FULLY COMPLIANT WITH THE OSHA HAZARD COMMUNICATION STANDARD. IF YOU PURCHASE OR USE THIS SHELL PRODUCT AND HAVE NOT RECEIVED A MSDS FROM SHELL PLEASE CONTACT US AND WE WILL PROVIDE ONE. THIS WILL

ENSURE
THAT YOU RECEIVE UPDATES OF THIS INFORMATION.

