

EQUILON ENTERPRISES LLC, PRODUCT STEWARDSHIP -- SPIRAX(R) HEAVY DUTY GEAR OIL  
80W-90 (MIL-L-2105E) -- 9150-01-035-5393

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Product Identification  
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Product ID:SPIRAX(R) HEAVY DUTY GEAR OIL 80W-90 (MIL-L-2105E)

MSDS Date:01/04/1999

FSC:9150

NIIN:01-035-5393

Status Code:A

MSDS Number: CKWLS

=== Responsible Party ===

Company Name:EQUILON ENTERPRISES LLC, PRODUCT STEWARDSHIP

Box:674414

City:HOUS

TON

State:TX

ZIP:77267-4414

Country:US

Info Phone Num:877-276-7285

Emergency Phone Num:877-276-7283

Resp. Party Other MSDS Num.:864020E-09

Chemtrec Ind/Phone:(800)424-9300

CAGE:TO300

=== Contractor Identification ===

Company Name:EQUILON ENTERPRISES LLC, PRODUCT STEWARDSHIP

Box:674414

City:HOUSTON

State:TX

ZIP:77267-4414

Country:US

Phone:877-276-7285

CAGE:TO300

Company Name:SHELL OIL COMPANY

Address:Box:2463

City:HOUSTON

State:TX

ZIP:77210

Country:US

Phone:800-231-6950

CAGE:54527

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Composition/Information on Ingredients =====

Ingred Name: DISTILLATES, ACID-TREATED HEAVY NAPHTHENIC  
CAS: 64742-18-3  
RTECS #: PY8032000  
Minimum % Wt: 0.  
Maximum % Wt: 95.  
Other REC Limits: NONE RECOMMENDED  
OSHA PEL: 300 PPM  
ACGIH TLV: 300 PPM

Ingred Name: HYDROTREATED MIDDLE PETROLEUM DISTILLATE  
CAS: 64742-46-7  
RTECS #: JN9379645  
Minimum % Wt: 0.  
Maximum % Wt: 95.  
Other REC Limits: NONE RECOMMENDED  
OSHA PEL: 5 MG/M3 AS OIL MIST  
ACGIH TLV: 5 MG/M3 AS OIL MIST

Ingred Name: SEVERELY HYDROTREATED HEAVY  
NAPHTHENIC DISTILLATE/MINERAL  
OIL  
CAS: 64742-52-5  
RTECS #: PY8035000  
Minimum % Wt: 0.  
Maximum % Wt: 95.  
Other REC Limits: NONE RECOMMENDED  
OSHA PEL: 5 MG/M3 AS OIL MIST  
ACGIH TLV: 5 MG/M3 AS OIL MIST

Ingred Name: SEVERELY HYDROTREATED LIGHT NAPHTHENIC DISTILLATE/MINERAL  
OIL  
CAS: 64742-53-6  
RTECS #: PY8036000  
Minimum % Wt: 0.  
Maximum % Wt: 95.  
Other REC Limits: NONE RECOMMENDED  
OSHA PEL: 5 MG/M3 (OIL MIST)  
ACGIH TLV: 5 MG/M3 (OIL MIST)

Ingred Name: SOLVENT REFINED HYDROTREATED RESIDUAL OIL  
CAS: 64742-57

-0  
Minimum % Wt:0.  
Maximum % Wt:95.  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:5 MG/M3 AS OIL MIST  
ACGIH TLV:5 MG/M3 AS OIL MIST

Ingredient Name:ADDITIVES  
&lt; Wt:10.  
Other REC Limits:NONE RECOMMENDED

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Hazards Identification  
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LD50 LC50 Mixture:ORAL, RAT LD50 > 5.0 G/KG  
Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO  
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO  
Health Hazards Acute and Chronic:EYE CONTACT: BASED ON COMPONENT INFORMATION  
PRODUCT IS NO MORE THAN MINIMALLY IRRITATING TO THE EYES. SKIN CONTACT: BASED ON COMPONENT INFORMATION PRODUCT IS NO MORE THAN MILDLY IRRITATING TO THE SKIN. PROLONGED OR REPEATED CONTACT CAN RESULT IN VARIOUS SKIN DISORDERS SUCH AS DERMATITIS, FOLLICULITIS OR OIL ACNE. INHALATION: INHALATION OF VAPORS (GENERATED AT HIGH TEMPERATURES ONLY) OR OIL MIST FROM THIS PRODUCT MAY CAUSE MINOR IRRITATION OF THE MUCOUS MEMBRANES OF THE UPPER RESPIRATORY TRACT. INGESTION: BASED ON COMPONENT INFORMATION  
THIS PRODUCT IS NOT MORE THAN SLIGHTLY TOXIC IF SWALLOWED.  
Explanation of Carcinogenicity:THIS PRODUCT AND ITS COMPONENTS ARE NOT CLASSIFIED AS CARCINOGENS BY INTERNATIONAL AGENCY FOR RESEARCH ON CANCER (IARC), NATIONAL TOXICOLOGY PROGRAM (NTP) OR OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA).  
Effects of Overexposure:IRRITATION.  
Medical Condition Aggravated by Exposure:PREEXISTING SKIN AND RESPIRATORY DISORDERS MAY BE AGGRAVATED BY EXPOSURE TO THIS PRODUCT.

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First Aid Measures  
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First Aid: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 CLEANSER 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.

CAL ATTENTION. INGESTION: DO NOT INDUCE VOMITING. IN GENERAL  
NO TREATMENT IS NECESSARY UNLESS LARGE QUANTITIES OF PRODUCT ARE  
INGESTED. HOWEVER, GET MEDICAL ADVICE.

===== Fire Fighting Measures =====

Flash Point Method:PMCC

Flash Point:=-154.4C, 310.F

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

Fire Fighting Procedures:MATERIAL WILL

NOT BURN UNLESS PREHEATED. DO

NOT ENTER CONFINED FIRE-SPACE WITHOUT FULL BUNKER GEAR (HELMET WITH  
FACESHIELD, BUNKER COATS/GLOVES/RUBBER BOOTS), INCLUDING A  
POSITIVE-PRESSURE NIOSH-APPROVED SELF-CONTAINED BREATHING  
APPARATUS. COOL FIRE EXPOSED CONTAINERS WITH WATER.

Unusual Fire/Explosion Hazard:NONE IDENTIFIED.

===== Accidental Release Measures =====

Spill Release Procedures:MAY BURN THOUGH NOT READILY IGNITABLE. USE  
CAUTIOUS JUDGEMENT WHEN

CLEANING UP LARGE SPILLS. LARGE SPILLS:

WEAR RESPIRATORS & PROTECTIVE CLOTHING AS APPROPRIATE. SHUT OFF  
SOURCE OF LEAK IF SAFE TO DO SO. DIKE & CONTAIN. REMOVE WITH  
VACUUM TRUCKS OR PUMP TO SALVAGE VESSELS. SOAK UP RESIDUE WITH AN  
ABSORBENT . DISPOSE OF PROPERLY. SMALL SPILLS: TAKE WITH AN  
ABSORBENT MATERIAL & DISPOSE OF PROPERLY.

Neutralizing Agent:NO DATA PROVIDED BY MANUFACTURER.

===== Handling and Storage =====

Handling and Storage Precautions:

MINIMIZE SKIN CONTACT. WASH WITH SOAP

AND WATER BEFORE EATING, DRINKING, SMOKING OR USING TOILET  
FACILITIES. LAUNDRY CONTAMINATED CLOTHING BEFORE REUSE. PROPERLY  
DISPOSE OF CONTAMINATED LEATHER ARTICLES, INCLUDING SHOES, THAT  
CANNOT BE DECONTAMINATED.

Other Precautions:STORE IN A COOL, DRY PLACE WITH ADEQUATE VENTILATION.  
KEEP AWAY FROM OPEN FLAMES AND HIGH TEMPERATURES.

===== Exposure Controls/Personal Protection =====

Respiratory Protection:IF

EXPOSURE MAY OR DOES EXCEED OCCUPATIONAL  
EPOSURE LIMITS USE A NIOSH-APPROVED RESPIRATOR TO PREVENT  
OVEREXPOSURE. IN ACCORD WITH 29 CFR 1910.134 USE EITHER AN  
ATMOSPHERE-SUPPLYING RESPIRATOR OR AN A IR-PURIFYING RESPIRATOR FOR  
ORGANIC VAPORS AND PARTICULATES.

Ventilation:USE ADEQUATE VENTILATION TO KEEP OIL MISTS OF THIS MATERIAL  
BELOW APPLICABLE STANDARD(S).

Protective Gloves:WEAR CHEMICAL RESISTANT GLOVES AS REQUIRED TO  
MINIMIZE SKIN CONTACT..

Eye Protection:WEAR SAFETY  
GOGGLES TO AVOID EYE CONTACT.

Other Protective Equipment:WEAR CHEMICAL RESISTANT CLOTHING AS REQUIRED  
TO MINIMIZE SKIN CONTACT.

Work Hygienic Practices:WASH WITH SOAP AND WATER BEFORE EATING,  
DRINKING, SMOKING OR USING TOILET FACILITIES. LAUNDER CONTAMINATED  
CLOTHING BEFORE REUSE.

Supplemental Safety and Health  
TEST DATA FROM PUBLISHED LITERATURE AND/OR GLOVE MANUFACTURERS INDICATE  
THE BEST PROTECTION IS PROVIDED BY NITRILE GLOVES.

===== Physical/Chemical Propertie

s =====

HCC:V6

Boiling Pt:B.P. Text:NOT AVAILABLE

Melt/Freeze Pt:=-27.C, -16.6F

M.P/F.P Text:POUR POINT

Vapor Pres: