

SHELL OIL COMPANY, PRODUCT SAFETY AND COMPLIANCE -- SHELL SPIRAX(R) HEAVY DUTY  
80W/90, 59210 -- 9150-01-313-2191

===== Product Identification =====

Product ID:SHELL SPIRAX(R) HEAVY DUTY 80W/90, 59210

MSDS Date:05/14/1991

FSC:9150

NIIN:01-313-2191

Status Code:A

MSDS Number: CJNCN

=== Responsible Party ===

Company Name:SHELL OIL COMPANY, PRODUCT SAFETY AND COMPLIANCE

Box:4320

City:HOUSTON

State:TX

ZIP:77210

Country:US

Info Phone Num:713-241-4819

Emergency Phone Num:713-473-9461

Resp. Party Other MSDS Num.:59210

Preparer's Name:G.A. VAN GELDER

Chemtrec Ind/Phone:(800)424-9300

CAGE:LO345

=== Contractor Identification ===

Company Name:SALATHE OIL CO INC

Address:2226 PETERS RD

Box:City:HARVEY

State:LA

ZIP:70058

Country:US

Phone:504-366-4542

Contract Num:SP0450-99-M-B239

CAGE:0T5C6

Company Name:SHELL OIL COMPANY, PRODUCT SAFETY AND COMPLIANCE

Box:4320

City:HOUSTON

State:TX

ZIP:77210

Country:US

Phone:713-241-4819

CAGE:LO345

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===== Composition/Information on Ingredients =====

Ingred Name:SOLVENT REFINED, HYDROTREATED RESIDUAL OIL

CAS:64742-57-0

Minumum % Wt:0.

Maxumum % Wt:65.

Ingred Name:SOLVENT REFINED, HYDROTREATED MIDDLE DISTILLATE

CAS:64742-46-7

RTECS #:JN9379645

Minumum % Wt:0.

Maxumum % Wt:20.

Ingred Name:SOL. REF., HYDROTREATED, ACID TREATED HEAVY NAPHTHENIC  
DIST.

CAS:64742-18-3

RTECS #:PY8032000

Minumum % Wt:0.

Maxumum % Wt:20.

Ingred Name:SEVERELY HY  
DROTREATED LIGHT NAPHTHENIC DISTILLATE

CAS:64742-53-6

RTECS #:PY8036000

Minumum % Wt:0.

Maxumum % Wt:20.

Ingred Name:SEVERELY HYDROTREATED HEAVY NAPHTHENIC DISTILLATE

CAS:64742-52-5

RTECS #:PY8035000

Minumum % Wt:0.

Maxumum % Wt:15.

Ingred Name:SOLVENT REFINED, CATALYTIC DEWAXED PARAFFINIC DISTILLATE

CAS:64742-70-7

RTECS #:PY8045500

Minumum % Wt:0.

Maxumum % Wt:65.

Ingred Name:ADDITIVE PACKAGE

&lt; Wt:10.

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===== Hazards Identification =====

LD50 LC50 Mixture

:LD50 (ORAL, RAT) NOT AVAILABLE

Health Hazards Acute and Chronic:TARGET ORGANS: N/P. HEALTH

INFORMATION: 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 MAY CAUSE VARIOUS DISORDERS SUCH AS DERMATITIS, FOLLICULITIS OR OIL ACNE. INHALATION: VAPORS (GENERATED AT HIGH TEMPERATURES ONLY) OR O

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MIST FROM THIS PRODUCT MAY CAUSE MINOR IRRITATION TO THE MUCOUS MEMBRANES OF THE UPPER RESPIRATORY TRACT. INGESTION: BASED ON COMPONENT INFORMATION THIS PRODUCT IS NO MORE THAN SLIGHTLY TOXIC IF SWALLOWED.

Effects of Overexposure:BASED ON COMPONENT INFORMATION PRODUCT IS NO MORE THAN MINIMALLY IRRITATING TO THE EYES. BASED ON COMPONENT INFORMATION, PRODUCT IS NO MORE THAN MILDLY IRRITATING TO THE SKIN. PROLONGED OR REPEATED CONTACT MAY CAUSE VARIOUS DISORDERS S

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DERMATITIS, FOLLICULITIS OR OIL ACNE. VAPORS (GENERATED AT HIGH TEMPERATURES ONLY) OR OIL MIST FROM THIS PRODUCT MAY CAUSE MINOR IRRITATION TO THE MUCOUS MEMBRANES OF THE UPPER RESPIRATORY TRACT. BASED ON COMPONENT INFORMATION THIS PRODUCT IS NO MORE THAN SLIGHTLY TOXIC IF SWALLOWED.

Medical Cond 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 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 ADVICE.

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===== 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 FLOAT AND CAN BE REIGNITED ON SURFACE OF WATER.

Fire Fighting Procedures:MATERIAL WILL NOT BURN UNLESS PREHEATED. DO NOT ENTER CONFINED FIRE-SPACE WITHO

UT 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.

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

Spill Release Procedures:MAY BURN ALTHOUGH NOT READILY IGNITABLE. 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/SMALL SPILLS WITH AN ABSORBENT SUCH AS CLAY, SAND OR OTHER  
SUITABLE MATERIAL, DISPOSE OF PROPERLY. FLUSH AREA WITH WATER TO  
REMOVE TRACE RESIDUE.

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

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

Other 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  
DECONTAMIANATED.

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

Respiratory Protection:IF EXPOSURE MAY OR DOES EXCEED OCCUPATIONAL  
EXPOSURE LIMITS, 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.

Ventilation:PROVIDE ADEQUATE VENTILATION

Protective Gloves:CHEMICAL RESISTANT GLOVES. BEST PROTECTION: NITRILE  
GLOVES.

Eye Protection:SAFETY GOGGLES TO AVOID EYE CONTACT.

Other Protective Equipment:PROTECTIVE CLOTHING AS REQUIRED TO MINIMIZE  
SKIN CONTACT. TEST DATA FROM PUBLISHED LITERATURE AND/OR GLOVE AND  
CLOTHING MANUFACTURERS INDICATE THE BEST PROTECTION IS PROVIDED BY

NITRILE GLOVES.

Work Hygienic Practices:MINIMIZE SKIN CONTACT. WASH WITH SOAP AND WATER BEFORE EATING, DRINKING, SMOKING OR USING TOILET FACILITIES. LAUNDER CONTAMINATED CLOTHING BEFORE REUS. PROPERLY DISPOSE OF CONTAMINATED LEATHER ARTICLES.

Supplemental Safety and Health

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

THE PEL FOR PRODUCT IS 5 MG/M3 AS OIL MIST. TLV IS 5 MG/M3 (OIL

MIST). STEL IS 10 MG/M3 (OIL MIST)

===== Physical/Chemical Properties =====

HCC:V6

Melt/Freeze Pt:=-30.C, -22.F

M.P/F.P Text:POUR POINT

Spec Gravity:0.8990(H2O=1)

Viscosity:147(CS @ 40 DEG C)

Solubility in Water:NEGLIGIBLE

Appearance and Odor:BROWN LIQUID. SLIGHT HYDROCARBON ODOR.

===== Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid:YES

OXIDIZING MATERIALS.

Stability Condition to Avoid:AVOID HEAT, OPEN FLAMES.

Hazardous Decomposition Products:A COMPLEX MIXTURE OF AIRBORNE SOLID, LIQUID, PARTICULATES AND GASES WILL EVOLVE. CARBON MONOXIDE, CARBON DIOXIDE, AND PHOSPHORUS AND OTHER UNIDENTIFIED ORGANIC COMPOUNDS MAY BE FORMED.

Conditions to Avoid Polymerization:WILL NOT OCCUR.

===== Toxicological Information =====

Toxicological Information:ADDITIVE PACKAGE IS NOT HAZARDOUS UNDER THE OSHA HAZARD COMMUNICATION STANDARD (29 CFR 1910.1200).

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= Disposal Considerations =====

Waste Disposal Methods: PLACE IN AN APPROPRIATE DISPOSAL FACILITY IN COMPLIANCE WITH LOCAL REGULATIONS.

===== Regulatory Information =====

SARA Title III Information: THIS PRODUCT IS CLASSIFIED AS AN OIL UNDER SECTION 311 OF THE CLEAN WATER ACT. SPILLS ENTERING (A) SURFACE WATERS OR (B) ANY WATER COURSES OR SEWERS ENTERING/LEADING TO SURFACE WATERS THAT CAUSE A SHEEN MUST BE REPORTED TO THE NATIONAL RESPONSE CENTER, 800-424-8802.

Federal Regulatory Information: THE COMPONENTS OF THIS PRODUCT ARE LISTED ON THE EPA/TOXIC SUBSTANCE CONTROL ACT (TSCA) INVENTORY OF CHEMICAL SUBSTANCES.

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