MSDS
Safety Information

FSC: 9150  
MSDS Date: 04/01/1991  
MSDS Num: BYWKV

Submitter: N EN  
LIIN: 00N063075  
Tech Review: 08/30/1995  
Status CD: C

Product ID: X−100 MOTOR OIL 30, 51003  
MFN: 01

Article: N  
Kit Part: N

Cage: 54527

Responsible Party
Name: SHELL OIL COMPANY
Box: 4320
City: HOUSTON  
State: TX  
Zip: 77210
Country: US

Info Phone Number: 713−241−4819

Emergency Phone Number: 713−473−9461;800−424−9300(CHEMTREC)

Radioactive Ind: N

Preparer's Name: N/P

Proprietary Ind: N  
Review Ind: N

Published: Y  
Special Project CD: N

Ingredients

Contractor

Cage: 54527  
Name: SHELL OIL COMPANY
Box: 2463
City: HOUSTON  
State: TX  
Zip: 77210
Country: US

Phone: 800−231−6950
<table>
<thead>
<tr>
<th>Cas:</th>
<th>M</th>
<th>Code:</th>
<th>RTECS #:</th>
<th>Code:</th>
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</thead>
</table>

**Name:** MINERAL OIL, PETROLEUM DISTILLATES, HYDROTREATED (SEVERE), HEAVY PARAFFINIC

<table>
<thead>
<tr>
<th>% Text:</th>
<th>0–60</th>
<th>Environmental Wt:</th>
</tr>
</thead>
<tbody>
<tr>
<td>OSHA PEL:</td>
<td>N/K (FP N)</td>
<td>Code: M OSHA</td>
</tr>
<tr>
<td>ACGIH TLV:</td>
<td>N/K (FP N)</td>
<td>Code: M ACGIH N/P</td>
</tr>
<tr>
<td>EPA Rpt Qty:</td>
<td>DOT Rpt Qty:</td>
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</tbody>
</table>

**Ozone Depleting Chemical:**

N

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<table>
<thead>
<tr>
<th>Cas:</th>
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</table>

**Name:** MINERAL OIL, PETROLEUM DISTILLATES, CATLYTIC DEWAXED, HEAVY PARAFFINIC (SEVERE SOLVENT–REFINING AND/OR HYDROTREATMENT)

<table>
<thead>
<tr>
<th>% Text:</th>
<th>0–60</th>
<th>Environmental Wt:</th>
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<tbody>
<tr>
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**Ozone Depleting Chemical:**

N

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<table>
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<tr>
<th>Cas:</th>
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**Name:** MINERAL OIL, PETROLEUM DISTILLATES, ACID–TREATED HEAVY NAPHTHENIC (SEVERE SOLVENT–REFINING AND/OR (ING 4))

<table>
<thead>
<tr>
<th>% Text:</th>
<th>25–30</th>
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<tbody>
<tr>
<td>OSHA PEL:</td>
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**Other REC Limits:** NONE RECOMMENDED
<table>
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<tr>
<th>Ozone Depleting Chemical:</th>
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<tbody>
<tr>
<td>N</td>
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<table>
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<th>X</th>
<th>9999999ZZ</th>
<th>M</th>
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</thead>
<tbody>
<tr>
<td>OSHA PEL:</td>
<td>NOT APPLICABLE</td>
<td>Code: M</td>
<td>OSHA STEL:</td>
</tr>
<tr>
<td>ACGIH TLV:</td>
<td>NOT APPLICABLE</td>
<td>Code: M</td>
<td>ACGIH N/P STEL:</td>
</tr>
<tr>
<td>EPA Rpt Qty:</td>
<td>DOT Rpt Qty:</td>
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</tbody>
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<table>
<thead>
<tr>
<th>Name: ING 3: HYDROTREATMENT); (SOL. REF., HYDROTREATED, ACID TREATED HEAVY NAPHTHENIC DIST)</th>
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</thead>
</table>

<table>
<thead>
<tr>
<th>% Text: N/K</th>
<th>Environmental Wt:</th>
</tr>
</thead>
<tbody>
<tr>
<td>OSHA PEL:</td>
<td>N/K</td>
</tr>
<tr>
<td>Other REC Limits: N/K</td>
<td></td>
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<table>
<thead>
<tr>
<th>Name: ADDITIVE CONTAINING INGREDIENTS 5 – 7</th>
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<table>
<thead>
<tr>
<th>% Text: 0–15</th>
<th>Environmental Wt:</th>
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<tbody>
<tr>
<td>OSHA PEL:</td>
<td>N/K (FP N)</td>
</tr>
<tr>
<td>Other REC Limits: N/K</td>
<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>ACGIH TLV: N/K (FP N)</th>
<th>Code: M</th>
<th>ACGIH N/P STEL:</th>
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<p>| EPA Rpt Qty: DOT Rpt Qty: |
|---------------------------|---|
| Ozone Depleting Chemical: |   |</p>
<table>
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</table>

Name: **PHOSPHORODITHIOIC ACID, DIALKYL ESTER, ZINC SALT; (ZINC DIALKYL DITHIOPHOSPHATE)**

- % Text: 0.12
- Environmental Wt:
- Other REC Limits: N/K
- OSHA PEL:
  - N/K (FP N)
  - Code: M OSHA STEL:
- ACGIH TLV:
  - N/K (FP N)
  - Code: M ACGIH N/P STEL:
- EPA Rpt Qty:
  - DOT Rpt Qty:

Ozone Depleting Chemical:

<table>
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<th>Cas:</th>
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<td>Code:</td>
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</table>

Name: **CALCIUM ALKYL DITHIOPHOSPHATE**

- % Text: 0.17
- Environmental Wt:
- Other REC Limits: N/K
- OSHA PEL:
  - N/K (FP N)
  - Code: M OSHA STEL:
- ACGIH TLV:
  - N/K (FP N)
  - Code: M ACGIH N/P STEL:
- EPA Rpt Qty:
  - DOT Rpt Qty:

Ozone Depleting Chemical:

<table>
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<tr>
<th>Cas:</th>
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</tbody>
</table>

Name: **MAGNESIUM ALKARYL SULFONATE; (MAGNESIUM LONG−CHAIN ALKARYL SULFONATE)**

- % Text: 0.13
- Environmental Wt:
- Other REC Limits: N/K
- OSHA PEL:
  - N/K (FP N)
  - Code: M OSHA STEL:
MINOR ADDITIVE

% Text: <1

OSHA PEL:
N/K (FP N)

ACGIH TLV: N/K (FP N)

EPA Rpt Qty:

Ozone Depleting Chemical:
Cas: X X
Code: RTECS #: Code:

Name: SPILL PROC: VESSELS. SOAK UP RESIDUE W/ABSORB SUCH AS CLAY, SAND/OTHER SUITABLE MATLS. DISP OF PROPERLY. FLUSH (ING 11)

% Text: N/K

OSHA PEL:
NOT APPLICABLE

ACGIH TLV: NOT APPLICABLE

EPA Rpt Qty:

Ozone Depleting Chemical:
### ING 10: AREA W/WATER TO REMOVE TRACE RESIDUE. SML SPILLS: TAKE UP W/ABSORB MATL & DISPOSE OF PROPERLY.

- **Name:** ING 10
- **OSHA PEL:** NOT APPLICABLE
- **ACGIH TLV:** NOT APPLICABLE
- **EPA Rpt Qty:**
- **Ozone Depleting Chemical:**

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<td>M</td>
<td>9999999ZZ</td>
<td>M</td>
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</table>

### WASTE DISP METH: (800–424–8802). PLACE IN AN APPROPRIATE DISPOSAL FACILITY IN COMPLIANCE W/LOC, FED & STATE REGS.

- **Name:** WASTE DISP METH
- **OSHA PEL:** NOT APPLICABLE
- **ACGIH TLV:** NOT APPLICABLE
- **EPA Rpt Qty:**
- **Ozone Depleting Chemical:**

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<td>M</td>
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<td>M</td>
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</table>

### HYGIENE PRACT: BEFORE REUSE. PROPERLY DISP OF CONTAMINATED LEATHER ARTICLES, INCL SHOES, THAT CANNOT BE DECONTAMINATED.

- **Name:** HYGIENE PRACT
- **OSHA PEL:** NOT APPLICABLE
- **ACGIH TLV:** NOT APPLICABLE
- **EPA Rpt Qty:**
- **Ozone Depleting Chemical:**

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Ozone Depleting Chemical:

<table>
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<tr>
<th>Health Hazards Data</th>
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<tbody>
<tr>
<td>LD50 LC50 Mixture</td>
</tr>
<tr>
<td>NONE SPECIFIED BY MANUFACTURER.</td>
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</tbody>
</table>

Route Of Entry Inds − Inhalation: YES  
Skin: YES  
Ingestion: YES

Carcinogenicity Inds − NTP: NO  
IARC: NO  
OSHA: NO

Health Hazards Acute And Chronic

ACUTE: EYES: GEN CONSIDERED NO MORE THAN MIN IRRIT TO EYES. SKIN: GEN CONSIDERED NO MORE THAN MILDLY IRRIT TO SKIN. PRLNG/RPTD CONT MAY RSLT IN VARIOUS SKIN DISORDERS SUCH AS DERM, FOLLICULITIS/OIL AC NE. INHAL: VAP (GENERATED AT HIGH TEMPSONLY)/OIL MIST FROM PROD MAY RSLT IN MILD IRRIT OF UPPER RESP (EFTS OF OVEREXP)

Explanation Of Carcinogenicity

NOT RELEVANT.

Signs And Symptoms Of Overexposure

HLTH HAZ: TRACT. INGEST: GEN CONSIDERED NO MORE THAN SLIGHTLY TOX IF SWALLOWED. IARC HAS DETERMINED THERE IS SUFFICIENT EVIDENCE FOR CARCINOGENICITY IN EXPERIMENTAL ANIMALS OF USED MOTOR OILS. HNDLG PROC & SFTY PREC IN MSDS SHOULD BE FOLLOWED TO MINIMIZE EMPLOYEE'S EXPOS TO USED PROD.

Medical Cond Aggravated By Exposure

PREEEXISTING SKIN AND RESPIRATORY DISORDERS MAY BE AGGRAVATED BY EXPOSURE TO THIS PRODUCT.

First Aid

EYES: FLUSH W/WATER FOR AT LEAST 15 MIN WHILE HOLDING EYELIDS OPEN. GET MD ATTN.  
SKIN: REMOVE CONTAM CLTHG & WIPE EXCESS OFF. WASH W/SOAP & WATER/WATERLESS HAND CLEANER FOLLOWED BY SOAP & WATER. IF IRRIT OCCURS GET MD ATTN. INHAL: REMOVE TO FRESH AIR & PROVIDE OXYGEN IF BRTTHG IS DFCLT. GET MD ATTN. INGEST: DO NOT INDUCE VOMIT. IN GEN NO TREATMENT NEC UNLESS LGE QTYS OF PROD INGEST. HOWEVER, (SUP DAT)

Spill Release Procedures

MAY BURN ALTHOUGH NOT READILY IGNIT. USE CAUTIOUS JUDGMENT WHEN CLEANING UP LGE SPILLS.  
LGE SPILLS: WEAR RESP & PROT CLTHG AS APPROP. SHUT OFF SOURCE OF LEAK IF SAFE TO DO SO. DIKE & CONTAIN. REMOVE W/VACUUM, TRUCKS/PUMP TO STORAGE SALVAGE(ING 10)
Neutralizing Agent

NONE SPECIFIED BY MANUFACTURER.

Waste Disposal Methods

THIS PRODUCT IS CLASSIFIED AS AN OIL UNDER SECTION 311 OF THE CLEAN WATER ACT. SPILLS ENTERING SURFACE WATER/ANY WATER COURSES/SEWERS ENTERING/LEADING TO SURFACE WATERS THAT CAUSE A SHEEN MUST BE REPORTED TO THE NATIONAL RESPONSE CENTER (ING 12)

Handling And Storage Precautions

MINIMIZE SKIN CONTACT. STORE IN A COOL, DRY PLACE WITH ADEQUATE VENTILATION. KEEP AWAY FROM OPEN FLAMES AND HIGH TEMPERATURES.

Other Precautions

NONE SPECIFIED BY MANUFACTURER.

Fire and Explosion Hazard Information

Flash Point Method:

PMCC

Flash Point: Flash Point Text: 390F, 199C

Autoignition Temp: Autoignition Temp Text: N/A

Lower Limits: N/K Upper Limits: N/K

Extinguishing Media

USE WATER FOG, DRY CHEM/CO2. DO NOT USE DIRECT STREAM OF WATER. PROD WILL FLOAT & CAN BE REIGNITED ON SURF OF WATER.

Fire Fighting Procedures

WEAR NIOSH/MSHA APPROVED SCBA & FULL PROTECTIVE EQUIPMENT (FP N). MATERIAL WILL NOT BURN UNLESS PREHEATED. COOL FIRE−EXPOSED CONTAINERS WITH WATER.

Unusual Fire/Explosion Hazard

NONE SPECIFIED BY MANUFACTURER.
IF EXPOS MAY/DOS EXCEED OCCUP EXPOS LIM USE NIOSH/MSHA APPRVD RESP TO PREVENT OVEREXP. I/A/W 29CFR 1910.134 USE EITHER NIOSH/MSHA APPRVD ATM−SUPP RESP OR NIOSH/MSHA PPRVD AIR−PURIFYING RESP FOR ORG V APS & PARTICULATES.

Ventilation

NONE SPECIFIED BY MANUFACTURER.

Protective Gloves

NITRILE GLOVES.

Eye Protection

ANSI APPRVD CHEM WORKERS GOGGS (FP N).

Other Protective Equipment

WEAR PROTECTIVE CLOTHING TO MIN SKIN CONTACT. EMERGENCY EYEWASH DELUGE SHOWER MEETING ANSI DESIGN CRITERIA (FP N).

Work Hygienic Practices

WASH WITH SOAP WATER BEFORE EATING, DRINKING, SMOKING/USING TOILET FACILITIES. LAUNDER CONTAMINATED CLOTHING (ING 13)

Supplemental Safety and Health

HAZ DECOMP PROD: GASES WILL EVOLVE WHEN MATL UNDERGOES PYROLYSIS/COMBUST. CARBON MONOXIDE, OXIDES OF SULFUR, NITROGEN & PHOSPHOROUS & OTHER UNIDENTIFIED ORG CMPDS MAY BE FORMED UPON COMBUST. FIRST AID PROC: GET MD ATTN. NOTE TO MD: IN GEN,EMESIS INDUCTION UNNEC IN HIGH VISC/LOW VOLAT PROD, I.E., MOST OILS & GREASES.

<table>
<thead>
<tr>
<th>Physical/Chemical Properties</th>
<th>Top</th>
</tr>
</thead>
<tbody>
<tr>
<td>HCC:</td>
<td>NRC/State LIC No:</td>
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Net Prop WT For Ammo:

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<th>Boiling Point:</th>
<th>B.P. Text:</th>
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<tbody>
<tr>
<td>Melt/Freeze Pt:</td>
<td>M.P/F.P Text:</td>
<td>−5F,−21C</td>
</tr>
<tr>
<td>Decomp Temp:</td>
<td>Decomp Text:</td>
<td>N/K</td>
</tr>
<tr>
<td>Vapor Pres:</td>
<td>Vapor Density:</td>
<td>N/K</td>
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</table>
Volatile Org Content %: Spec Gravity: 0.8745 (H₂O=1)

VOC Pounds/Gallon:

PH: N/K

VOC Grams/Liter: Viscosity: N/P

Evaporation Rate & Reference: N/K

Solubility in Water: NEGLIGIBLE

Appearance and Odor: DARK AMBER OIL, WITH SLIGHT HYDROCARBON ODOR

Percent Volatiles by Volume: N/K Corrosion Rate: N/K

Reactivity Data

Stability Indicator:

YES

Stability Condition To Avoid: AVOID HEAT AND OPEN FLAMES.

Materials To Avoid: AVOID OXIDIZING MATERIALS.

Hazardous Decomposition Products: THERMAL DECOMP PROD ARE HIGHLY DEPENDENT ON COMBUST CNDTNS. COMPLEX MIX OF AIRBORNE SOLID, LIQ. PARTICULATES (SUP DAT)

Hazardous Polymerization Indicator: NO

Conditions To Avoid Polymerization NOT RELEVANT.

Toxicological Information

Toxicological Information: N/P

Ecological Information

Ecological: N/P

MSDS Transport Information

Transport Information: N/P

Regulatory Information

Sara Title III Information: N/P
Federal Regulatory Information: N/P
State Regulatory Information: N/P

Other Information:
N/P

Print Labels

Product ID:

X−100 MOTOR OIL 30, 51003

Cage: 54527 Assigned IND: N
Company Name:
SHELL OIL COMPANY

Street: PO Box: 2463
City: HOUSTON State: TX Zipcode: 77210

Country: US
Health Emergency Phone:
713−473−9461;800−424−9300(CHEMTREC)

Label Required IND:
Y Date Of Label Review: 08/30/1995

Status Code: C MFG Label NO:

Label Date: 08/30/1995 Year Procured:

Origination Code:
G Chronic Hazard IND: Y

Eye Protection IND: YES Skin Protection IND: YES

Signal Word: CAUTION Respiratory Protection IND:

Health Hazard:
Slight

Contact Hazard: Slight

Fire Hazard:
Reactivity Hazard: None

Hazard And Precautions

ACUTE: EYES: NO MORE THAN MINIMALLY IRRITATING TO THE EYES. SKIN: NO MORE THAN MILDLY IRRITATING TO THE SKIN. INHALATION: VAPOR (GENERATED AT HIGH TEMPERATURES ONLY) OR OIL MIST FROM PRODUCT MAY RESULT IN MILD IRRITATION OF UPPER RESPIRATORY TRACT. INGESTION: SLIGHTLY TOXIC. CHRONIC: PROLONGED OR REPEATED CONTACT MAY RESULT IN VARIOUS SKIN DISORDERS SUCH AS DERMATITIS, FOLLICULITIS/OIL ACNE. USED MOTOR OILS ARE LISTED AS CARCINOGENS. TAKE PRECAUTIONS (MFR).

==========================================================================================================

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