

TEXACO REFINING AND MARKETING INC. -- 02109 URSA SUPER PLUS SAE 15W-40 --  
9150-01-351-9018

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

Product ID:02109 URSA SUPER PLUS SAE 15W-40  
MSDS Date:01/01/1995  
FSC:9150  
NIIN:01-351-9018  
MSDS Number: BWZSS  
=== Responsible Party ===  
Company Name:TEXACO REFINING AND MARKETING INC.  
Address:1111 RUSK STREET  
Box:4427  
City:HOUSTON  
State:TX  
ZIP:77002-3310  
Country:US  
Info Phone Num:713-650-5206  
Emergency Phone Num:713-650-5206, CHEMTREC 800-424-9300  
Preparer's Name:MANAGER, PRODUCT SAFETY  
CAGE:2R503

=== Contractor Identification ===

Company Name:TEXACO REFINING AND MARKETING INC  
Address:1111 RUSK ST  
Box:City:HOUSTON  
State:TX  
ZIP:77002-3310  
Country:US  
Phone:713-650-5206  
CAGE:2R503

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

Ingred Name:SEVERELY SOLVENT REFINED, SOLVENT DEWAXED HEAVY PARAFFINIC  
PETROLEUM DISTILLATES  
CAS:64742-65-0  
RTECS

#:PY8038500  
Fraction by Wt: 80-95%  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:5 MG/M3 (OIL MIST)  
ACGIH TLV:5 MG/M3 (OIL MIST)

Ingred Name:ALKENYLSUCCINIMIDE DISPERSANT  
Fraction by Wt: 3-10%  
Other REC Limits:NONE RECOMMENDED

Ingred Name:DIALKYLDITHIOPHOSPHORIC ACID, ZINC SALT  
CAS:84605-29-8  
Fraction by Wt: 0.1-0.9%  
Other REC Limits:NONE RECOMMENDED

Ingred Name:ZINC DITHIOPHOSPHATE (ZINC 0,0-BISISODECYL DITHIOPHOSPHATE)  
CAS:25103-54-2  
Fraction by Wt: 0.1-0.9%  
Other REC Limits:NONE RECOMMENDED

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

LD50 LC50 Mixture:ORAL LD50 (RAT) IS >5000 MG/KG  
Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO  
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO  
Health Hazards Acute and Chronic:ACUTE: INHALATION OF HIGH  
CONCENTRATIONS MAY CAUSE RESPIRATORY IRRITATION, HEADACHE & NAUSEA.  
CONTACT WITH SKIN & EYES MAY CAUSE IRRITATION. INGESTION MAY CAUSE  
GI TRACT IRRITATION. CHRONIC: NO ADVERS E EFFECTS HAVE BEEN  
DO  
CUMENTED IN HUMANS AS A RESULT OF CHRONIC EXPOSURE.  
Explanation of Carcinogenicity:NO INGREDIENT OF A CONCENTRATION OF 0.1%  
OR GREATER IS LISTED AS A CARCINOGEN OR SUSPECTED CARCINOGEN.  
Effects of Overexposure:INHALED-HEADACHE, NAUSEA, IRRITATION OF NOSE &  
THROAT, DROWSINESS. INGESTED-ABDOMINAL DISCOMFORT, NAUSEA,  
DIARRHEA. EYES-TEMPORARY DISCOMFORT. SKIN-LOCAL REDNESS, SWELLING.  
Medical Cond Aggravated by Exposure:REPEATED SKIN CONTACT MAY AGGRAVATE  
AN EXISTING DERMATITIS.

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===== First Aid Measures =====

First Aid:EYES-FLUSH WITH LOTS OF WATER FOR SEVERAL MINUTES. GET MEDICAL ATTENTION IF IRRITATION PERSISTS. SKIN-WASH SKIN WITH PLENTY OF SOAP & WATER. GET MEDICAL ATTENTION IF IRRITATION PERSISTS. INGESTED-IF C ONSCIOUS, GIVE 2 GLASSES OF WATER. GET MEDICAL ATTENTION. INHALED-IF SYMPTOMS OCCUR, REMOVE TO FRESH AIR. GET MEDICAL ATTENTION IF BREATHING BECOMES DIFFICULT OR RESPIRAATORY IRRITATION PERSISTS.

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

Flash Point Method:COC

Flash Point:>435F,>224C

Extinguishing Media:WATER SPRAY, CARBON DIOXIDE, DRY CHEMICAL, FOAM. WATER OR FOAM MAY CAUSE FROTHING.

Fire Fighting Procedures:WEAR SELF-CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE GEAR. COOL FIRE EXPOSED CONTAINERS WITH WATER.

Unusual Fire/Explosion Hazard:HYDROGEN SULFIDE MAY BE RELEASED WHEN OVERHEATED.

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

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Spill Release Procedures:VENTILATE AREA. AVOID BREATHING VAPOR. WEAR APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT, INCLUDING RESPIRATORY. CONTAIN SPILL IF POSSIBLE. WIPE UP OR ABSORB ON SUITABLE MATERIAL & SHOVEL UP. PREVENT ENT RY INTO SEWERS & WATERWAYS. AVOID CONTACT. Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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

Handling and Storage Precautions:PERIODS OF EXPOSURE TO HIGH TEMPERATURES SHOULD B

E MINIMIZEDWATER CONTAMINATION SHOULD BE

AVOIDED.MINIMUM FEASIBLE HANDLING TEMPS SHOULD BE MAINTAINED

Other Precautions:WHEN OVERHEATED, PRODUCT MAY RELEASE HYDROGEN SULFIDE GAS. HYDROGEN SULFIDE CONCENTRATIONS ABOVE PERMISSABLE CONCENTRATIONS CAN CAUSE IRRITATION OF EYES & RESPIRATORY TRACT, HEADACHE, DIZZINESS, NAUSE A, VOMITING, DIARRHEA, PULMONARY EDEMA.

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

Respiratory Protection:IF ENGINEERING CONTROLS FAIL O

R NON-ROUTINE USE

OR AN EMERGENCY OCCURS; WEAR AN MSHA/NIOSH APPROVED RESPIRATOR OR AN AIR-SUPPLIED RESPIRATOR OR SCBA, AS REQUIRED. USE IN ACCORDANCE WITH 29 CFR 1910.134 AND MANUFACTURER'S RECOMMENDATIONS.

Ventilation:USE ADEQUATE MECHANICAL VENTILATION OR LOCAL EXHAUST TO MAINTAIN EXPOSURE BELOW TLV(S).

Protective Gloves:NONE SPECIFIED BY MANUFACTURER.

Eye Protection:SAFETY GLASSES/GOGGLES/FACESHIELD.

Other Protective Equipment:NONE SPECIFIED BY MANUFACTURER.

Work Hygienic Practices:

WASH HANDS AFTER HANDLING AND BEFORE EATING, DRINKING, OR SMOKING. LAUNDRY CONTAMINATED CLOTHES BEFORE REUSE.

Supplemental Safety and Health

MORE ABOUT HYDROGEN SULFIDE: AT CONCENTRATIONS ABOVE 300 PPM, RESPIRATORY PARALYSIS, CAUSING UNCONSCIOUSNESS AND DEATH MAY OCCUR.

EPA NOTES: SARA 302/304: NONE; SARA 311: NONE/N/R; SARA 313:

DIALKYLDI THIOPHOSPHORIC ACID, ZINC SALT, CAS# 84605-29-8,

0.1-0.99%; ZINC DITHIOPHOSPHATE, CAS# 25103-54-2, 0.1-0.99%

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

HCC:V6

Spec Gravity:0.88

Viscosity:110 CST @ 40C

Appearance and Odor:PALE LIQUID; MINERAL OIL ODOR.

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

Stability Indicator/Materials to Avoid:YES

STRONG OXIDIZING AGENTS.

Stability Condition to Avoid:AVOID EXTREME TEMPERATURES OR EXTENDED STORAGE PERIODS-HYDROGEN SULFIDE MAY ACCUMULATE IN HEAD-SPACE OF CONTAINER.

Hazardous Decomposition Products:TOXIC LEVELS OF CARBON MONOXIDE,

CARBON DIOXIDE, IRRITATING ALDEHYDES, KETONES & COMBUSTION PRODUCTS/COMDS OF SULFUR.

Conditions to Avoid Polymerization:WILL NOT OCCUR.

===== Disposal Considerations =====

Waste Disposal Methods:THIS PRODUCT HAS BEEN EVALUATED FOR RCRA CHARACTERISTICS AND DOES NOT MEET THE CRITERIA OF A HAZARDOUS WASTE IN ITS PURCHASED FORM. UNDER RCRA, IT IS THE RESPONSIBILITY OF THE PURCHASER TO DETERMINE AT DISPOSAL, WHETHER PRODUCT MEETS RCRA CRI

TERIA.

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