

PHILLIPS PETROLEUM CO -- SOLTROL 220 -- 6850-01-196-5472

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

Product ID: SOLTROL 220
MSDS Date: 11/30/1998
FSC: 6850
NIIN: 01-196-5472
Status Code: A
MSDS Number: CKGCR
=== Responsible Party ===
Company Name: PHILLIPS PETROLEUM CO
Address: 613 ADAMS
City: BARTLESVILLE
State: OK
ZIP: 74004
Country: US
Info Phone Num: 800-234-6603
Emergency Phone Num: 918-661-8118
CAGE: 46935
=== C
Contractor Identification ===
Company Name: JONRAY GENERAL PRODUCTS INC
Address: 2434 HOOVER AVE SUITE N
Box: City: NATIONAL CITY
State: CA
ZIP: 91950
Country: US
Phone: 619-336-1333
Contract Num: SP0450-00-M-D835
CAGE: 1NQ29
Company Name: PHILLIPS PETROLEUM CO
Address: 613 ADAMS
Box: City: BARTLESVILLE
State: OK
ZIP: 74004
Country: US
Phone: 800-234-6603
CAGE: 46935

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

Ingred Name: ALIPHATIC HYDROCARBON C13-C17 ISOALKANES
CAS: 68551-20-2
Fraction by

Wt: 100%
Other REC Limits:100 PPM MFR REL

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

LD50 LC50 Mixture:NONE SPECIFIED BY MANUFACTURER.
Routes of Entry: Inhalation:YES Skin:UNKNOWN Ingestion:YES
Health Hazards Acute and Chronic:ACUTE: EYE/SKIN: MAY BE MILDLY IRRITATING. INHALATION: MAY CAUSE HEADACHE, DIZZINESS, NAUSEA, UNCONSCIOUSNESS. INGESTION: MAY IRRITATE THE STOMACH & INTESTINES. IF SWALLOWED, MAY BE ASPIRATED RESULTING IN INFLAMATION & POSSIBLE FLUID ACCUMULATION IN THE LUNGS. CHRONIC: SOME ISOPARAFFINS HAVE PRODUCED KIDNEY DAMAGE IN MALE RATS ONLY. NO COMPARABLE KIDNEY DISEASE IS KNOWN TO OCCUR IN HUMANS.
Explanation of Carcinogenicity:NO INFORMATION PROVIDED.
Effects of Overexposure:EYES-IRRITATION. SKIN-IRRITATION. INHALED-HEADACHE, DIZZINESS, NAUSEA, UNCONSCIOUSNESS. INGESTED-STOMACH AND INTESTINAL IRRITATION. ASPIRATION-LUNG INFLAMMATION.
Medical Cond Aggravated by Exposure:NONE PROVIDED BY MFR.

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

First Aid:EYES: FLUSH WITH RUNNING WATER FOR AT LEAST 15 MINUTES. IF IRRITATION OR ADVERSE SYMPTOMS DEVELOP, SEEK MEDICAL ATTENTION. SKIN: WASH SKIN WITH SOAP & WATER FOR 15 MINUTES. IF IRRITATION OR ADVERSE SYMPTOMS DEVELOP, SEEK MEDICAL ATTENTION. INHALATION: REMOVE FROM EXPOSURE. IF BREATHING IS DIFFICULT, GIVE OXYGEN. IF BREATHING CEASES, ADMINISTER ARTIFICIAL RESPIRATION FOLLOWED BY OXYGEN. SEEK IMMEDIATE MEDICAL ATTENTION. INGESTION: DO NOT INDUCE VOMITING. SEEK IMMEDIATE MEDICAL ATTENTION. NOTE TO PHYSICIAN: GASTRIC LAVAGE USING A CUFFED ENDOTRACHEAL TUBE MAY BE PERFORMED AT YOUR DISCRETION.

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

Flash Point Method:PMCC
Flash Point:>98.9C, 210.F
Autoignition Temp:Autoignition Temp Text:NONE P
Lower Limits:NOT ESTABLIS
Upper Limits:NOT ESTABLIS
Extinguishing Media:DRY CHEMICAL, FOAM OR CARBON DIOXIDE. WATER FOG OR

SPARY MAY BE USED TO COOL EXPOSED CONTAINERS & EQUIPMENT. DO NOT SPRAY WATER DIRECTLY ON FIRE, PRODUCT WILL FLOAT & COULD REIGNITE.
Fire Fighting Procedures:EVACUATE ALL UNNECESSARY PERSONNEL. USE NIOSH APPROVED SELF CONTAINED BREATHING APPARATUS & OTHER PROTECTIVE EQUIPMENT &/OR GARMENTS. IF EXPOSURE CONDITIONS WARRANT. SHUT OFF SOURCE IF POSSIBLE.

Unusual Fire/Explosion Hazard:CARBON OXIDES FORMED WHEN BURNED. HIGHLY FLAMMABLE VAPORS WHICH ARE HEAVIER THAN AIR MAY ACCUMULATE IN LOW AREAS &/OR SPREAD ALONG GROUND AWAY FROM HANDLING SITE. FLASH BACK ALONG VAPOR TRAIL IS POSSI BLE.

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

Spill Release Procedures:EVACUATE AREA OF ALL UNNECESSARY PERSONNEL. WEAR PROTECTIVE EQUIPMENT &/OR GARMENTS IF EXPOSURE CONDITIONS WARRANT. SHUT OFF SOURCE, IF POSSIBLE & CONTAIN SPILL. PROTECT FROM IGNITION. KEEP OUT OF WAT ER SOURCES & SEWERS. ABSORB IN A DRY, INERT MATERIAL (SAND, CLAY, ETC)
. TRANSFER TO DISPOSAL DRUMS USING NON-SPARKING EQUIPMENT.

Neutralizing Agent:NONE PROVIDED BY MFR.

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

Handling and Storage Precautions:AVOID CONTACT WITH EYES, SKIN OR CLOTHING. AVOID BREATHING VAPORS, MIST, FUME OR DUST. DO NOT SWALLOW, MAY BE ASPIRATED INTO LUNGS. WEAR PROTECTIVE EQUIPMENT &/OR GARMENTS IF EXPOSURE CONDITIONS WARRA NT. WASH THOROUGHLY AFTER HANDLING. LAUNDER CONTAMINATED CLOTHING BEFORE REU SE. USE WITH ADEQUATE VE

Other Precautions:NONE PROVIDED BY MFR.

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

Respiratory Protection:NOT GENERALLY REQUIRED. FOR CONCENTRATIONS EXCEEDING THE RECOMMENDED EXPOSURE LIMIT, USE NIOSH/MSHA APPROVED AIR PURIFYING RESPIRATOR.

Ventilation:USE ADEQUATE VENTILATION TO CONTROL CONCENTRATION BELOW RECOMMENDED EXPOSURE LIMITS.

Protective Gloves:NEOPRENE, VITON.

Eye Protection:SAFETY GLASSES WITH SIDE SHIELDS. CHEMICAL S

PLASH

GOGGLES & FACE SHIELD.

Other Protective Equipment:NONE PROVIDED BY MFR.

Work Hygienic Practices:WASH HANDS AFTER USE & BEFORE EATING, DRINKING,
SMOKING OR USING TOILET. LAUNDRY CONTAMINATED CLOTHES BEFORE REUSE.

Supplemental Safety and Health

PERSONAL PROTECTION INFORMATION IS BASED UPON GENERAL INFORMATION AS TO
NORMAL USES AND CONDITIONS. WHERE SPECIAL OR UNUSUAL CONDITIONS
EXIST, GET ASSISTANCE FROM AN INDUSTRIAL HYGIENIST.

===== Physical/Chemical Properties

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HCC:V6

Boiling Pt:B.P. Text:451 TO 536 DEG F

Melt/Freeze Pt:M.P/F.P Text:NONE PROVIDED BY MFR.

Decomp Temp:Decomp Text:NONE PROVIDED BY MFR.

Vapor Pres:0.01 PSIA @ 100 DEG F

Vapor Density:>1(AIR=1)

Spec Gravity:0.803@60/60F (H2O=1)

Viscosity:4.5 CST @ 100 DEG F

Evaporation Rate & Reference: