

SHELL OIL COMPANY -- TT-T-291, TYPE II -- 8010-00-246-6112

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

Product ID:TT-T-291, TYPE II
MSDS Date:08/29/1985
FSC:8010
NIIN:00-246-6112
MSDS Number: BKSKJ
=== Responsible Party ===
Company Name:SHELL OIL COMPANY
Box:4320
City:HOUSTON
State:TX
ZIP:77210
Country:US
Info Phone Num:713-241-4819
Emergency Phone Num:713-473-9461
Preparer's Name:JOHN P SEPESI
CAGE:54527

=== Contractor Identification ===

Company Name:PACKAGING SERVICES INC
Address:472 SHANK RD
Box:875
City:PEARLAND
State:TX
ZIP:77581
Country:US
Phone:713-485-1457
CAGE:9V846
Company Name:SHELL OIL COMPANY
Address:Box:2463
City:HOUSTON
State:TX
ZIP:77210
Country:US
Phone:800-231-6950
CAGE:54527

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

Ingred Name:SHELL SOL 140 (MADE UP OF THE FOLLOWING LISTED INGREDIENTS.
THE TLV ON THIS PAGE IS FOR OVERALL PRODUCT)
CAS:64742-88-

7
RTECS #:9999999ZZ
Fraction by Wt: 100%
Other REC Limits:*STODDARD SOLVENT
ACGIH TLV:100 PPM/200PPM STEL*

Ingred Name:PARAFFINS
Fraction by Wt: 55%
Other REC Limits:NONE SPECIFIED

Ingred Name:NAPHTHENES
Fraction by Wt: 40%
Other REC Limits:NONE SPECIFIED

Ingred Name:AROMATICS
Fraction by Wt: 5%
Other REC Limits:NONE SPECIFIED

Ingred Name:OLEFINS
Fraction by Wt: < 0.1%
Other REC Limits:NONE SPECIFIED

Ingred Name:A COMPLEX COMBINATION OF PREDOMINANTLY C3-C12 HYDROCARBONS;
EXACT COMPOSITI
ON WILL VARY
RTECS #:9999999ZZ
Other REC Limits:NONE SPECIFIED

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

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES
Health Hazards Acute and Chronic:EYE: ALMOST NONIRRITATING. SKIN:
SLIGHTLY IRRITATING TO SKIN. PROLONG/REPEAT LIQUID CONTACT CAN
RESULT IN DEFATTING & DRYING, CAUSING IRRITATION & DERMATITIS.
INHALE: IRRITATION TO NOSE, THROAT & RESP TRACT. HIGH CONC MAY
RESULT IN CNS DEPRESSION. INGEST: VOM
ITING; ASPIRATION TO LUNGS MAY
RESULT IN PNEUMONITIS.

Effects of Overexposure:EARLY TO MODERATE CENTRAL NERVOUS SYSTEM
DEPRESSION MAY BE EVIDENCED BY GIDDINESS, HEADACHE, DIZZINESS, AND
NAUSEA. IN EXTREME CASES, UNCONSCIOUSNESS AND DEATH MAY OCCUR.
ASPIRATION PNEUMONITIS MAY BE EVIDENCED BY COUGHING, LABORED
BREATHING AND CYANOSIS (BLUISH SKIN). IN SEVERE CASES DEATH MAY
OCCUR.

Medical Cond Aggravated by Exposure:PREEXISTING EYE, SKIN AND
RESPIRATORY DISORDERS MAY B

E AGGRAVATED BY EXPOSURE TO THIS PRODUCT.

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

First Aid:EYE: FLUSH W/WATER FOR 15 MIN, HOLDING LIDS OPEN. GET MEDICAL AID. SKIN: REMOVE CONTAM CLOTHES/SHOES. FLUSH W/WATER. WASH W/SOAP & WATER. FOR IRRIT GET MEDICAL AID. INHALE: REMOVE TO FRESH AIR & GIVE OXYGEN IF BREATHING IS DIFFICULT. GIVE CPR IF NOT BREATHING. INGEST: DO NOT INDUCE VOMITING. IF VOMITING OCCURS, KEEP HEAD BELOW HIPS TO PREVENT ASPIRATION TO LUNGS. GET MEDICAL AID.

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

Flash Point Method:TCC

Flash Point:142F,61C

Lower Limits:1

Upper Limits:7

Extinguishing Media:WATER FOG, FOAM, DRY CHEM OR CO2. DO NOT USE DIRECT STREAM OF WATER. PRODUCT WILL FLOAT & CAN REIGNITE ON WATER SURFACE.

Fire Fighting Procedures:USE FULL BUNKER GEAR TO ENTER FIRE AREA. USE A POSITIVE PRESSURE NIOSH APPR'D SELF-CONTAINED BREATHING APPARATUS, COOL FIRE EXPOSED CONTAINERS W/WATER.

Unusual Fire/Explosion Hazard:VAPOR PRESSURE BUILDUP COULD CAUSE CONTNRS TO RUPTURE. CONTAINER AREAS EXPOSED TO DIRECT FLAME CONTACT SHOULD BE COOLED W/WATER TO PREVENT WEAKENING OF CNTNRS.

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

Spill Release Procedures:ELIM IGNITE SOURCES. WEAR APPROPRIATE RESPIRATOR/PROTECT CLOTHES. IF NO RISK, SHUT OFF SOURCE OF LEAK. DIKE & CONTAIN. REMOVE W/VACUUM TRUCK/STORAGE OR SALVAGE VESSEL. SOAK UP RESIDUE W/

ABSORBENT. PLACE IN NONLEAKING CONTNRS, SEAL TIGHTLY. FLUSH AREA *

Neutralizing Agent:*W/WATER. SM SPILLS: USE ABSORB, PLACE IN NONLEAKING CONTAINER.

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

Handling and Storage Precautions:KEEP LIQUID & VAPOR AWAY FROM HEAT, SPARKS & FLAMES. SURFACES THAT ARE HOT MAY IGNITE EVEN LIQUID PRODUCT. KEEP FROM IGNITE ALL SOURCES.

Other Precautions:VAPORS MAY ACCUMULATE & TRAVEL TO IGNITE SOURCES DISTANT FROM THE HANDLIN

G SITE; FLASH-FIRE CAN RESULT. KEEP
CONTAINERS CLOSED WHEN NOT IN USE. USE WITH ADEQUATE VENTILATION.
CONTAINERS, EVEN EMPTY CAN CONTAIN EXPLOSIVE VAPORS.

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

Respiratory Protection:IF EXPOSURE MAY OR DOES EXCEED EXPOSURE LIMITS
USE A NIOSH APPR'D RESPIRATOR TO PREVENT OVEREXPOSURE. IN ACCORD
WITH 29CFR1910.134 USE EITHER AN ATMOSPHERE-SUPPLYING RESPIRATOR OR
AN AIR-PURIFYING RESPIRATOR FOR ORGANIC VAPORS.

V

entilation:USE EXPLOSION-PROOF VENTILATION AS REQUIRED TO CONTROL
VAPOR CONCENTRATIONS.

Protective Gloves:WEAR CHEMICAL RESISTANT GLOVES

Eye Protection:WEAR SAFETY GLASSES OR GOGGLES

Other Protective Equipment:WEAR CHEMICAL RESISTANT CLOTHING AS REQUIRED
TO MINIMIZE CONTACT. BEST PROTECTION IS W/NITRILE MATERIAL.

Work Hygienic Practices:AVOID CONTACT WITH EYES AND SKIN. AIR DRY
CONTAMINATED CLOTHING IN A WELL VENTILATED AREA THEN LAUNDER BEFORE
REUSE.

Supplemental Safety and Health

th

DO NOT CUT, DRILL, GRIND, WELD OR PERFORM SIMILAR OPERATIONS ON/NEAR
CONTAINERS. STATIC ELEC MAY ACCUMULATE & CREATE FIRE HAZARD. GROUND
FIXED EQUIPMENT. BOND & GROUND TRANSFER CONTAINERS & EQUIP. TO DR:
IF MORE THAN 2.0 ML PER KG HAS BEENINGESTED & VOMITING HAS NOT
OCCURED, EMESIS SHOULD BE INDUCED W/SUPERVISION.

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

HCC:T6

Boiling Pt:B.P. Text:371 TO 416F

Melt/Freeze Pt:M.P/F.P Text:NA

Vapor Pres:< 5 @ 100F

Vapor Density:5.3(AIR=1)

Spec Gravity:0.78

Evaporation Rate & Reference:0.03 (BU AC=1)

Solubility in Water:NEGLIGIBLE

Appearance and Odor:LIGHT COLORED LIQUID, HYDROCARBON ODOR

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

Stability Indicator/Materials to Avoid:YES

STRONG OXIDIZING AGENTS

Stability Condition to Avoid:AVOID HEAT, FLAME AND CONTACT WITH STRONG
OXIDIZING AGENTS.

Hazardous Decomposition Products:CARBON MONOXIDE AND UNIDENTIFIED
ORGANIC COMPOUNDS M

AY BE FORMED DURING COMBUSTION.

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

Waste Disposal Methods: UNDER EPA RCRA-IF THIS PRODUCT BECOMES A WASTE MATERIAL, IT IS AN IGNITABLE HAZARDOUS WASTE. HAZARDOUS WASTE NUMBER D001. REFER TO LATEST EPA OR STATE REGULATIONS REGARDING DISPOSAL. WATERWAY/LAND SPILLS TO BE REPORTED TO NAT'L RESPONSE CENTER.

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