

SHELL OIL COMPANY -- 71522, SHELL DARINA (R) EP GREASE 2 -- 9150-01-123-5103

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

Product ID:71522, SHELL DARINA (R) EP GREASE 2

MSDS Date:07/10/1991

FSC:9150

NIIN:01-123-5103

Status Code:A

MSDS Number: CLJZC

=== Responsible Party ===

Company Name:SHELL OIL COMPANY

Box:2463

City:HOUSTON

State:TX

ZIP:77210

Country:US

Info Phone Num:800-231-6950

Emergency Phone Num:(80

0)424-9300

Resp. Party Other MSDS Num.:MSDS NUMBER: 56,250-8

Chemtec Ind/Phone:(800)424-9300

CAGE:54527

=== Contractor Identification ===

Company Name:SHELL OIL COMPANY

Box:2463

City:HOUSTON

State:TX

ZIP:77210

Country:US

Phone:800-231-6950

Contract Num:SP0450-01-M-LN73

CAGE:54527

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

Ingred Name:POLYMER ADDITIVE IN OIL

= Wt:84.

Ingred Name:INORGANIC CLAY

CAS:1302-78-9

RTECS #:CT9450000

= Wt:5.

Ingred Name:FATTY ACID AMIDES

CAS

:68910-93-0

= Wt:3.

Ingred Name:SOLVENT REFINED, HYDROTREATED HEAVY PARAFFINIC OIL

CAS:64742-54-7

RTECS #:PY8035500

= Wt:3.

Ingred Name:ANTIMONY DITHIOCARBAMATE

CAS:15890-25-2

= Wt:1.

Ingred Name:OTHER ADDITIVES

= Wt:4.

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

LD50 LC50 Mixture:NOT AVAILABLE

Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:EYE CONTACT: MAY BE MILDLY IRRITATING

TO THE EYES. SKIN CONTACT: PROLONGED OR REPEATED CONTACT MAY CAUSE

VARIOUS SKIN DISORDERS SUCH AS DERMATITIS. FOLLICULITIS OR OIL ACNE. RELEASE DURING HIGH PRESSURE USAGE MAY RESULT IN INJECTION OF OIL INTO THE SKIN CAUSING LOCAL NECROSIS. INHALATION: NO SPECIFIC INFORMATION IDENTIFIED. INGESTION: NO SPECIFIC INFORMATION IDENTIFIED. THIS PRODUCT AND ITS COMPONENTS ARE NOT CLASSIFIED AS CARCINOGENS BY INTERNATIONAL AGENCY FOR RESEARCH ON CANCER (IARC). NATIONAL TOXICOLOGY PROGRAM (NTP) OR OCCUPATIONAL SAFETY AND HEALTH

ADMINISTRATION (OSHA).

Explanation of Carcinogenicity:PRODUCT CONTAINS NO INGREDIENTS

CURRENTLY CLASSIFIED AS CARCINOGENIC BY NTP, IARC OR OSHA.

Effects of Overexposure:IRRITATION AS NOTED ABOVE. LOCAL NECROSIS IS

EVIDENCED BY DELAYED ONSET OF PAIN AND TISSUE DAMAGE A FEW HOURS FOLLOWING INJECTION.

Medical Cond Aggravated by Exposure:PREEXISTING SKIN DISORDERS MAY BE AGGRAVATED BY EXPOSURE TO THIS PRODUCT.

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

=====

First Aid: EYE CONTACT: FLUSH WITH WATER FOR 15 MINUTES WHILE HOLDING LIDS OPEN. GET MEDICAL ATTENTION. SKIN CONTACT: REMOVE CONTAMINATED CLOTHING & WIPE EXCESS OFF. WASH WITH SOAP & WATER OR A WATERLESS HAND CLEANER FOLLOWED BY SOAP & WATER. DO NOT REUSE CLOTHING UNTIL THOROUGHLY CLEANED. IF IRRITATION PERSISTS, GET MEDICAL ATTENTION. IF MATERIAL IS INJECTED UNDER THE SKIN, GET MEDICAL ATTENTION PROMPTLY TO PREVENT SERIOUS DAMAGE. DO NOT WAIT FOR SYMPTOMS TO DEVELOP. 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 NEEDED.

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

Flash Point Method: PMCC
Flash Point: =129.4C, 265.F
BASE OIL

Extinguishing Media: USE WATER FOG, 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: DO NOT ENTER CONFINED FIRE SPACE WITHOUT PROPER PROTECTIVE EQUIPMENT INCLUDING A NIOSH APPROVED SELF-CONTAINED BREATHING APPARATUS. COOL FIRE EXPOSED CONTAINERS SURROUNDING EQUIPMENT AND STRUCTURES WITH WATER.

Unusual Fire/Explosion Hazard: NO DATA PROVIDED BY MANUFACTURER

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

Spill Release Procedures: SCOOP UP EXCESS GREASE. CLEAN AREA WITH APPROPRIATE CLEANER.

Neutralizing Agent: NO DATA PROVIDED BY MANUFACTURER

===== 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. LAUNDRY CONTAMINATED CLOTHING BEFORE REUSE. PROPERLY DISPOSE OF CONTAMINATED LEATHER ARTICLES. INCLUDING SHOES, THAT CANNOT BE DE

CONTAMINATED.

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

Respiratory Protection:NOT ORDINARILY REQUIRED.
Ventilation:NO DATA PROVIDED BY MANUFACTURER
Protective Gloves:OIL RESISTANT GLOVES
Eye Protection:NO DATA PROVIDED BY MANUFACTURER
Other Protective Equipment:OTHER CLOTHING AS NEEDED TO MINIMIZE SKIN CONTACT.
Work Hygienic Practices:WASH WITH SOAP AND WATER BEFORE EATING, DRINKING, SMOKING OR USING TOILET FACILITIES. LAUNDER CONTAMINATED CLOTHING BEFORE REUSE.
Supplemental Safety and Health
NO DATA PROVIDED BY MANUFACTURER

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

HCC:V6
Solubility in Water:INSOLUBLE

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

Stability Indicator/Materials to Avoid:YES
CONTACT WITH STRONG OXIDIZING AGENTS.
Stability Condition to Avoid:AVOID HEAT, OPEN FLAME
Hazardous Decomposition Products:THERMAL DECOMPOSITION PRODUCTS ARE HIGHLY DEPENDENT ON THE COMBUSTION CONDITIONS
. A COMPLEX MIXTURE
OF AIRBORNE SOLID, LIQUID PARTICULATES AND GASES WILL EVOLVE WHEN THIS MATERIAL UNDERGOES PYROLYSIS
Conditions to Avoid Polymerization:WILL NOT OCCUR

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

Toxicological Information:THIS SPECIFIC PRODUCT HAS NOT BEEN TESTED IN LONG-TERM, CHRONIC EXPOSURE TESTS. LUBRICATING GREASES ARE GENERALLY CONSIDERED TO BE OF A LOW ORDER OF ACUTE TOXICITY TO HUMANS AND EXPERIMENTAL ANIMALS. HOWEVER, THE

HANDLING PROCEDURES

AND SAFETY PRECAUTIONS IN THIS MSDS SHOULD BE FOLLOWED TO MINIMIZE EMPLOYEE'S EXPOSURE.

=====
Ecological Information
=====

Ecological:NO DATA PROVIDED BY MANUFACTURER

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

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

=====
MSDS Transport Information
=====

Transport Information:NOT HAZARDOUS BY DOT REGULATIONS.

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

SARA Title III Information:BASED ON THE DATA AVAILABLE TO SHELL THIS PRODUCT IS NOT HAZARDOUS AS DEFINED BY SARA TITLE III, SECTION 311. CONTAINS THE FOLLOWING SARA SECTION 313 REPORTABLE COMPONENTS: ANTIMONY COMPOUNDS.

Federal Regulatory Information:EPA CLEAN WATER ACT (CWA): THIS PRODUCT IS CLASSIFIED AS AN OIL UNDER SECTION 311 OF THE CLEAN WATER ACT. SPILLS ENTERING SURFACE WATERS OR ANY WATERCOURSES OR SEWERS ENTERING/LEAVING TO SURFACE WATERS THAT CAUSE A SHEEN MUST BE REPORTED TO THE NATIONAL RESPONSE CENTER, 800-424-8802. EPA COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION AND LIABILITY ACT. UNDER CERCLA RELEASES TO AIR, WATER, AND WHICH EXCEED THE REPORTABLE QUANTITY MUST BE REPORTED TO THE NATIONAL RESPONSE CENTER, RQ FOR THIS PRODUCT IS 200 LBS DUE TO THE ANTIMONY DITHIOCARBAMATE.

State Regulatory Information:BASED ON INFORMATION AVAILABLE TO SHELL, THIS PRODUCT DOES NOT CONTAIN ANY CHEMICAL SUBSTANCE LISTED ON A CHEMICAL SPECIFIC STATE LIST.

=====
Other Information
=====

Disclaimer (provided with this information by the compiling agencies): This information is formulated for use by elements of the Department of Defense. The United States of America in no manner whatsoever, expressly or implied, warrants this information to be accurate and disclaim

s all liability for its use. Any person utilizing this document should seek competent professional advice to verify and assume responsibility for the suitability of this information to their particular situation.