

SHELL OIL COMPANY, PRODUCT SAFETY AND COMPLIANCE -- 68702, 68745, 69702, 69704, DIALA OIL AX -- 9160-01-142-5748

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

Product ID:68702, 68745, 69702, 69704, DIALA OIL AX

MSDS Date:01/16/1996

FSC:9160

NIIN:01-142-5748

Status Code:A

MSDS Number: CKPTN

=== Responsible Party ===

Company Name:SHELL OIL COMPANY, PRODUCT SAFETY AND COMPLIANCE

Box:4320

City:HOUSTON

State:TX

ZIP:77210

Country:US

Info Phone Num:713-241-4819

Emergency Phone Num:713-473-9461

Resp. Party Other MSDS Num.:60030 - T

Chemtrec Ind/Phone:(800)424-9300

CAGE:TO320

=== Contractor Identification ===

Company Name:SHELL OIL COMPANY, PRODUCT SAFETY AND COMPLIANCE

Box:4320

City:HOUSTON

State:TX

ZIP:77210

Country:US

Phone:713-241-4819

CAGE:TO320

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

Ingred Name:DIALA OIL AX (PRODUCT)

= Wt:100.

OSHA PEL:5 MG/M3 OIL MIST

ACGIH TLV:5 MG/

M3 OIL MIST
ACGIH STEL:10 MG/M3 OIL MIST

Ingred Name:SEVERELY HYDROTREATED MIDDLE DISTILLATE
CAS:64742-46-7
RTECS #:JN9379645
Minumum % Wt:50.
Maxumum % Wt:100.

Ingred Name:HYDROTREATED LIGHT NAPHTHENIC DISTILLATE
CAS:64742-53-6
RTECS #:PY8036000
Minumum % Wt:0.
Maxumum % Wt:50.

Ingred Name:BUTYLATED HYDROXY TOLUENE
CAS:128-37-0
RTECS #:GO7875000
< Wt:.2
ACGIH TLV:10 MG/M3

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

LD50 LC50 Mixture:ACUTE, ORAL, RAT, LD50: >5 G
/KG

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

Health Hazards Acute and Chronic:EYE CONTACT: NONIRRITATING. SKIN
CONTACT: SLIGHTLY IRRITATING. PROLONGED AND REPEATED CONTACT MAY
RESULT IN 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:
VAPORS (GENERATED AT HIGH TEMPERATURES ONLY) OR OIL MIST MAY CAUSE
A MILD IRRITATION OF THE
MUCOUS MEMBRANES OF THE UPPER RESPIRATORY
TRACT. INGESTION: MAY RESULT IN VOMITING, ASPIRATION (BREATHING OF
VOMITUS INTO THE LUNGS) MUST BE AVOIDED AS EVEN SMALL QUANTITIES
MAY RESULT IN ASPIRATION PNEUMONITIS.

Explanation of Carcinogenicity: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).

Effects of Overexposure:

Exposure: IRRITATION AS NOTED. ASPIRATION MAY BE EVIDENCED BY COUGHING, LABORED BREATHING, AND CYANOSIS (BLUISH SKIN). IN SEVERE CASES DEATH MAY OCCUR. LOCAL NECROSIS IS EVIDENCED BY DELAYED ONSET OF PAIN AND TISSUE DAMAGE A FEW HOURS FOLLOWING INJECTION.

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

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

First Aid: EYE CONTACT: FLUSH EYES WITH WATER. IF IRRITATION OCCURS, GET MEDICAL ATTENTION. SKIN CONTACT: REMOVE CONTAMINATED CLOTHING/SHOES AND WIPE EXCESS FROM SKIN. FLUSH SKIN WITH WATER. FOLLOW BY WASHING WITH SOAP AND WATER. IF IRRITATION OCCURS, GET MEDICAL ATTENTION. IF MATERIAL IS INJECTED UNDER THE SKIN, GET MEDICAL ATTENTION PROMPTLY TO PREVENT SERIOUS INJURY. INHALATION: MOVE VICTIM TO FRESH AIR AND PROVIDE OXYGEN IF BREATHING IS DIFFICULT. GET MEDICAL ATTENTION. INGESTION: DO NOT INDUCE VOMITING. IF VOMITING OCCURS SPONTANEOUSLY, KEEP HEAD BELOW HIPS TO PREVENT ASPIRATION OF LIQUID INTO THE LUNGS. GET MEDICAL ATTENTION.

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

Flash Point Method: COC

Flash Point: =146.1C, 295.F

Lower Limits: N/AVA

Upper Limits: N/AVA

Extinguishing Media: WATER FOG, FOAM, DRY CHEMICAL, CARBON DIOXIDE. DO NOT USE A DIRECT STREAM OF WATER. PRODUCT WILL FLOAT AND CAN BE REIGNITED ON SURFACE OF WATER.

Fire Fighting Procedures:

MATERIAL WILL NOT BURN UNLESS PREHEATED. DO NOT ENTER CONFINED FIRE-SPACE WITHOUT FULL BUNKER GEAR (HELMET WITH FACE SHIELD, BUNKER COATS, GLOVES, AND RUBBER BOOTS), INCLUDING A POSITIVE-PRESSURE NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS. COOL FIRE EXPOSED CONTAINERS WITH WATER.

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

Spill Release Procedures: MAY BURN BUT NOT READILY IGNITIBLE. LARGE SPILLS: WEAR RESPIRATOR AND PROTECTIVE CLOTHING

. SHUT OFF SOURCE OF

LEAK. DIKE AND CONTAIN. REMOVE WITH VACUUM TRUCKS OR PUMP TO SALVAGE VESSELS. SOAK UP RESI DUE WITH ABSORBENT SUCH AS CLAY, SAND, OTHER SUITABLE MATERIALS. DISPOSE OF PROPERLY. FLUSH AREA WITH WATER TO REMOVE RESIDUE. SMALL SPILLS: TAKE UP WITH AN ABSORBENT AND DISPOSE OF PROPERLY.

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

Handling and Storage Precautions:MINIMIZE SKIN CONTACT. WASH WITH SOAP AND WATER BEFORE EATING, DRINKING, SMOKING OR USING TOILER FACILITIES. LAUNDER CONTAMINATED CLOTHING BEFORE REUSE. PROPERLY DISPOSE OF CONTAMINATED LEATHER ARTICLES, INCLUDING SHOES, THAT CANNOT BE DECONTAMINATED.
Other Precautions:STORE AWAY FROM EXCESSIVE HEAT, FLAMES, AND OXIDIZING MATERIALS.

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

Respiratory Protection:IF EXPOSURE MAY OR DOES EXCEED OCCUPATIONAL EXPOSURE LIMITS , USE A NIOSH-APPROVED RESPIRATOR TO PREVENT OVEREXPOSURE. IN ACCORD WITH 29 CFR 1910.134 USE EITHER AN ATMOSPHERE-SUPPLYING RESPIRATOR OR A N AIR -PURIFYING RESPIRATOR FOR ORGANIC VAPORS AND PARTICULATES.
Ventilation:PROVIDE ADEQUATE VENTILATION TO KEEP WORK AREA WITHIN ESTABLISHED EXPOSURE LIMITS.
Protective Gloves:WEAR CHEMICAL-RESISTANT GLOVES. NITRILRE RECOMMENDED.
Eye Protection:NO SPECIAL EYE PROTECTION IS ROUTINELY NECESSARY.
Other Protective Equipment:WEAR CHEMICAL-RESISTANT PTOTECTIVE CLOTHING AS REQUIRED 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. PROPERLY DISPOSE OF CONTAMINATED LEATHER ARTICLES, INCLUDING SHOES.
Supplemental Safety and Health

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

HCC:V6
Boiling Pt:>148.9C, 300.F
Melt/Freeze Pt:=-40.C, -40.F
Vapor Pres: