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## SHELL AVIATION LTD -- 8Q462,AEROSHELL PERFORMANCE ADDITIVE 101 -- 6850-01-474-4852

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

Product ID:8Q462, AEROSHELL PERFORMANCE ADDITIVE 101

MSDS Date:01/05/1998

FSC:6850

NIIN:01-474-4852

MSDS Number: CLCJN === Responsible Party ===

Company Name: SHELL AVIATION LTD Address: SHELL-MEX HOUSE, STRAND

City:LONDON WC2R 0ZA

Country:UK

Info Phone Num:44-(0)171-546-2094

Emergen

cy Phone Num:+44-(0)171-257-5515

Resp. Party Other MSDS Num.:DMC05100

Preparer's Name: NOT PROVIDED

CAGE:KA832

=== Contractor Identification ===

Company Name: SHELL AVIATION LTD Address: SHELL-MEX HOUSE, STRAND

Box:City:LONDON WC2R 0ZA

Country:UK

Phone:44-(0)171-546-2094

Contract Num:SP0450-01-M-ZA86

CAGE:KA832

Company Name: SHELL AVIATION LTD Address: SHELL-MEX HOUSE, STRAND

Box:City:LONDON WC2R 0ZA

Country:UK

Phone:44-(0)171-546-2094

Contract Num:SP0450-01-M-ZC55

CAGE:KA832

Company Name: SHELL AVIAT

ION LTD

Address: SHELL-MEX HOUSE, STRAND

Box:City:LONDON WC2R 0ZA

Country:UK

Phone:44-(0)171-546-2094

Contract Num:SP0450-01-M-ZD67

CAGE:KA832

Company Name: SHELL AVIATION LTD Address: SHELL-MEX HOUSE, STRAND

Box:City:LONDON WC2R 0ZA

Country:UK

Phone:44-(0)171-546-2094

Contract Num:SP0450-01-M-ZE78

CAGE:KA832

Company Name: SHELL AVIATION LTD Address: SHELL-MEX HOUSE, STRAND

Box:City:LONDON WC2R 0ZA

Country:UK

Phone:44-(0)171-546-2094

Contract Num:SP0450-02-M0M059

CAGE:KA832

n/Information on Ingredients =======

Ingred Name: DISTILLATES (PETROLEUM), SOLVENT-DEWAXED HEAVY PARAFFINIC

CAS:64742-65-0

RTECS #:PY8038501

Minumum % Wt:1.

Maxumum % Wt:5.

Other REC Limits: NOT PROVIDED

**OSHA PEL:NOT PROVIDED** 

ACGIH TLV:5 MG/M3 (OIL MIST)

Ingred Name: SOLVENT NAPHTHA (PETROLEUM), HEAVY AROMATIC

CAS:64742-94-5

RTECS #:WF3100000

Minumum % Wt:50.

Maxumum % Wt:80.

Other REC Limits:NOT PROVIDED

OSHA PEL:NOT PROVIDED

ACGIH TLV:NOT PROVIDED

Ingred Name: NAPHTHALENE

CAS:91-20-3

RTE

CS #:OJ0525000

Minumum % Wt:5.

Maxumum % Wt:10.

Other REC Limits: NOT PROVIDED

OSHA PEL:50 MG/M3;10 PPM

ACGIH TLV:52 MG/M3;10 PPM

ACGIH STEL:79 MG/M3;15 PPM

EPA Rpt Qty:100 LBS

DOT Rpt Qty:100 LBS

Ingred Name: BUTYLATED HYDROXYTOLUENE

CAS:128-37-0

RTECS #:GO7875000

Minumum % Wt:5.

Maxumum % Wt:10.

Other REC Limits:NOT PROVIDED

**OSHA PEL:NOT PROVIDED** 

ACGIH TLV:10 MG/M3

Ingred Name: DMSO EXTRACT BY IP346 FROM INGREDIENT #1

< Wt:3.

Other REC Limits: NOT PROVIDED

**OSHA PEL:NOT PROVIDED** 

**ACGIH TLV:NOT** 

LD50 LC50 Mixture:LD50>2000 MG/KG

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

Health Hazards Acute and Chronic:HUMAN HEALTH HAZARDS: EXCESSIVE DERMAL EXPOSURE CAUSES DEFATTING AND DRYING OF SKIN. INHALATION OF VAPORS MAY CAUSE IRRITATION OF THE RESPIRATORY TRACT, DIZZINESS, HEADACHE, NAUSEA.

- Explanation of Carcinogenicity:THIS PRODUCT HAS NOT BEEN EVALUATED IN LONG-TERM CHRONIC EXPOSURE TESTS
- . DERMAL APPLICATION TO MICE
  - EXPECTED TO CAUSE TUMORS. CARCINOGENIC RESPONSE MAY BE A CONSEQUENCE OF REPEAT, LOCAL CONTACT AND THE EXPOSURE CONDITIONS.
- Effects of Overexposure:PROLONGED EXPOSURE TO VAPOR/MIST CONCENTRATIONS ABOVE THE RECOMMENDED OCCUPATIONAL EXPOSURE STANDARD MAY CAUSE: HEADACHE, DIZZINESS, NAUSEA, IRRITATION OF THE EYES, UPPER RESPIRATORY TRACT, MOUTH, DIG ESTIVE TRACT, ASPHYXIATION, UNCONSCIOUSNESS & EVEN DEATH. SPLASES INTO THE EYE MAY CAUSE IRRI
- TATION & CONJUNCTIVITIS. IF INGESTED CAN LEAD TO IRRITATION OF THE MOUTH, IRRITATION OF THROAT, IRRITATION OF DIGESTIVE TRACT, VOMITING, CONVULSION & COMA. ASPIRATION INTO THE LUNGS MAY OCCUR DIRECTLY OR FOLLOW INGESTION. THIS CAN CAUSE CHEMICAL PNEUMONITIS WHICH MAY BE FATAL.

First Aid:INHALATION: REMOVE TO FRESH AIR. IF BREATHING BUT UNCONSCIOUS, PLACE IN RECOVERY POSITION. IF BREATHING HAS STOPED,

APPLY ARTIFICIAL RESPIRATION. IF HEARTBEAT ABSENT GIVE EXTERNAL CARDIAC COMPRESSION. MONITOR BREATHING AND PULSE. OBTAIN MEDICAL ATTENTION IMMEDIATELY. SKIN: WASH SKIN WITH WATER USING SOAP IF AVAILABLE. CONTAMINATED CLOTHING MUST BE REMOVED AS SOON AS POSSIBLE. EYE: FLUSH EYE WITH W ATER. IF PERSISTENT IRRITATION OCCURS, OBTAIN MEDICAL ATTENTION. INGESTION: DO NOT DELAY. DO NOT INDUCE VOMITING. PROTECT THE AIRWAY IF VOMITING BEGINS. GIVE NOTHING BY MOUTH. OBTAIN MED

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Flash Point Method:PMCC
Flash Point:=74.C, 165.2F
Extinguishing Media:FOAM AND DRY CHEMICAL POWDER. CARBON DIOXIDE, SAND OR EARTH MAY BE USED FOR SMALL FIRES ONLY. UNSUITABLE EXTINGUISHING MEDIA: WATER IN A JET.
Fire Fighting Procedures:PROPER PROTECTIVE EQUIPMENT INCLUDING BREATHING APPARATUS MUST BE WORN WHEN APPROACHING A FIRE IN A CONFINED SPACE. KEEP ADJACENT CONTAINERS COOL BY
SPRAYING WITH WATER. USE OF HALON EXTINGUISHERS SHO ULD BE AVOIDED FOR ENVIRONMENTAL REASONS.
Unusual Fire/Explosion Hazard:NOT PROVIDED
========== Accidental Release Measures ==========
Spill Release Procedures:WEAR IMPERVIOUS OVERALLS. PREVENT FROM ENTERING INTO DRAINS, DITCHES OR RIVERS. SMALL SPILLAGE: ABSORB OR CONTAIN LIQUID WITH SAND, EARTH/SPILL CONTROL MATERIAL. SHOVEL INTO A SUITABLE, CLEARLY MARKED CONTAINER FOR SUBSEQUENT SAFE DISPOSAL IN
ACCORDANCE WITH LOCAL REGULATIONS. LARGE SPILLAGE: PREVENT FROM SPREADING BY MAKING A BARRIER WITH SAND OR EARTH. RECLAIM LIQUID DIRECTLY/ IN AN ABSORBENT.
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Handling and Storage Precautions:KEEP ONLY IN ORIGINAL CONTAINER. KEEP IN A COOL, DRY, WELL VENTILATED PLACE. KEEP AWAY FROM SOURCES OF HEAT OR IGNITION. KEEP IN A BUNDED AREA. KEEP AT AMBIENT TEMPERATURE. ELECTROSTATIC CHARGES MAY B E GENERATED DURING
PUMPING. ENSURE ELECTRICAL CONTINUITY BY BONDING ALL EQUIPMENT. Other Precautions:NEVER SIPHON BY MOUTH. WHEN USING DO NOT EAT, DRINK OR SMOKE. ONLY USE IN WELL VENTILATED AREAS. WHEN HANDLING PRODUCT IN DRMS OR TOTES, SAFETY FOOTWEAR SHOULD BE WORN AND PROPER HANDLING EQUIPMENT SH OULD BE USED. PREVENT SPILLAGE.
====== Exposure Controls/Personal Protection ========
Respiratory Protection:NOT NORMALLY REQUIRED. IF RISK OF INHILATION WEAR HALF MASK RESPIRATOR WI

ICAL ATTENTION IMMEDIATELY.

TH ORGANIC VAPOR CARTRIDGE AND BUILT-IN PARTICULATE FILTER NPF 20 (GAS ONLY).

Ventilation: NOT PROVIDED

Protective Gloves: PVC OR NITRILE RUBBER

Eye Protection: CHEMICAL MONOGOGGLES IF SPLASHES LIKELY TO OCCUR/IN HIGH PRESSURE APPLICATIONS.

Other Protective Equipment:WEAR OVERALLS TO MINIMIZE CONTAMINATION OF PERSONAL CLOTHING. SAFETY SHOES OR BOOTS-CHEMICAL RESISTANT. IF SPLASHES ARE LIKELY TO OCCUR WEAR A PVC APRON. MINIMIZE ALL FORMS OF SKIN CONTACT.

Work Hygienic Practices:L

AUNDER OVERALLS AND UNDERGARMENTS REGULARLY.

WASH HANDS BEFORE EATING, DRINKING, SMOKING AND USING THE TOILET.

Supplemental Safety and Health

ABBREVIATION: N/A = NOT APPLICABLE. N/AV = NOT AVAILABLE. N/K = UNKNOWN. N/P = NOT PROVIDED. N/R = NOT RELEVANT. N/D = NOT DETERMINED. N/E = NOT ESTABLISHED.

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

HCC:V4

NRC/State Lic Num:NOT RELEVANT Boiling Pt:B.P. Text:NOT PROVIDED

Melt/Freeze Pt:M.P/F.P Text:NOT PROVIDED

Deco

mp Temp:Decomp Text:NOT PROVIDED Vapor Pres:DATA NOT AVAILABLE.

Vapor Density:>1(AIR=1)

Spec Gravity:0.911

Viscosity:NOT PROVIDED

Solubility in Water: 2000 MG/KG (ESTIMATED VALUE). ACUTE

TOXICITY - DERMAL: LD50 > 2000 MG/KG (ESTIMATED VALUE). EYE IRRITATION: EXPECTED TO BE SLIGHTLY IRRITANT. SKIN IRRITATION: IRRITANT. (SUB) CHRONIC TOXICITY: TH IS PRODUCT HAS NOT BEEN EVALUATED IN LONG-TERM CHRONIC EXPOSURE TESTS. REPEATED SKIN EXPOSURE EXPECTED TO CAUSE MODERATE TO SEVERE IR

EXPOSURE EXPECTED TO CAUSE MODERATE IN

RITATION. REPEATED

INHALATION OF MISTS EXPECTED TO CAUSE IRRITATION OF THE RESPIRATORY TRACT.

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

Ecological: ECOTOXICOLOGICAL DATA HAVE NOT BEEN DETERMINED SPECIFICALLY FOR THIS PRODUCT. INFORMATION GIVEN IS BASED ON A KNOWLEDGE OF THE COMPONENTS AND THE ECOTOXICOLOGY OF SIMILAR PRODUCTS. MOBILITY: LIQUID UN DER MOST ENVIRONMENTAL CONDITIONS, EMULSIFIES IN WATER. PRODUCT REMAINING ON SOIL SURFACE WILL PAR

GROUNDWATER. DE GRADABILITY: COD: 2510 MGO2/G. TOC: 835 MGC/G. CLOSED BOTTLE TEST: 35% DEGRADATION AFTER 28 DAYS. ECOTOXICITY: ESTIMATED TO BE MODERATELY TOXIC.
========= Disposal Considerations =============
Waste Disposal Methods:WASTE ARISING FROM A SPILLAGE SHOULD BE DISPOSED OF IN ACCORDANCE WITH PREVAILING REGULATIONS, PREFERABLY TO A RECOGNISED COLLECTOR OR CONTRACTOR. THE COMPETENCE OF THE CONTRACTOR SHOULD BE ESTABLISHE D BEFOREHAND. DO NOT DISPOSE INTO
THE ENVIRONMENT, IN DRAINS OR IN WATER COURSES. ALL CONTAINERS SHO ULD BE EMPTIED AND RETURNED TO THE SUPPLIER.
========== MSDS Transport Information =============
Transport Information:NOT DANGEROUS FOR CONVEYANCE UNDER UN, IMO, ADR/RID AND IATA/ICAO CODES.
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SARA Title III Information:NOT PROV IDED
Federal Regulatory Information:TSCA (USA): ALL COMPONENTS LISTED. State Regulatory Information:NOT PROVIDED
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