

SHELL AVIATION LTD -- AEROSHELL PERFORMANCE ADDITIVE 101 -- 6850-01-474-4852
===== Product Identification =====

Product ID:AEROSHELL PERFORMANCE ADDITIVE 101

MSDS Date:01/05/1998

FSC:6850

NIIN:01-474-4852

Status Code:A

MSDS Number: CLCHK

=== 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

Emerg

ency Phone Num:44-(0)171-257-5515

Resp. Party Other MSDS Num.:SDS NO. DMC05100

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-ZA06

CAGE:KA832

Company Name:SHELL AVIATION LTD

Address:SHELL-MEX HOUSE, STRAND

Box:City:LONDON WC2R 0ZA

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

Contract Num:SP0450-01-M-ZA55

CAGE:KA832

Company Name:SHELL AVIATION LTD

Address:SHEL

L-MEX HOUSE, STRAND

Box:City:LONDON WC2R 0ZA

Country:UK

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

Contract Num:SP0450-01-M-ZA65

CAGE:KA832

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

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

CAS:64742-65-0

RTECS #:PY8038500

Minimum % Wt:1.

Maxumum % Wt:5.

Ingred Name:SOLVENT NAPHTHA (PETROLEUM), HEAVY AROM.

CAS:64742-94-5

RTECS #:WF3100000

Minimum % Wt:50.

Maxumum % Wt:80.

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Minumum % Wt:5.

Maxumum % Wt:10.

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.

ACGIH TLV:10 MG/M3

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

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

Health Hazards Acute and Chronic:EXCESSIVE DERMAL EXPOSURE CAUSES
DEFATTING AND DRYING OF SKIN.

INHALATION OF VAPOURS 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 TUMOURS. CARCINOGENIC RESPONSE MAY BE A
CONSEQUENCE OF REPEAT, LOCAL CONTACT AND T HE EXPOSURE CONDITIONS.

Effects of Overexposure:PROLONGED EXPOSURE TO VAPOUR/MIST

CONCENTRATIONS ABOVE THE RECOMMENDED OCCUPATIONAL EXPOSURE STANDARD
MAY CAUSE: HEADACHE, DIZZINESS, NAUSEA, IRRITATION OF THE EYES,
UPPER RESPIRATORY TRACT, MOUTH AND DIGESTIVE TRACT, ASPHYXIATION,
UMCONSCIOUSNESS AND EVEN DEATH. SPLASHES INTO THE EYE MAY CAUSE
IRRITATION AND CONJUNCTIVITIS, IF INGESTED CAN LEAD TO IRRITATION
OF THE MOUTH, THROAT, DIGESTIVE TRACT, VOMITING, CONVULSIONS AND
COMA. ASPIRATION INTO THE LINGS MAY OCCUR DIRECTLY OR FOLLOWING
INGESTION. THIS CAN CAUSE CHEMICAL PNEUMONTITIS WHICH MAY BE FATAL.

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

First Aid:INHALATION: REMOVE TO FRESH AIR. IF BREATHING BUT UNCONCIOUS,
PLACE IN THE RECOVERY POSITION. IF BREATHING HAS STOPPED, APPLY
ARTIFICIAL RESPIRATION. IF HEARBEAT ABSENT GIVE EXTERNAL CARDIAC
COMPRESSI ON. 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. IT MUST
BE LAUNDER ED BEFO

RE REUSE. EYE: FLUSH EYE WITH WATER. IF PERSISTENT IRRITATION OCCURS, OBTAIN MEDICAL ATTENTION. INGESTION: DO NOT DELAY. DO NOT INDUCE VOMITING. PROTECT THE AIRWAY IF VOMITING BEGINS. SEE SUPPLEMENTAL DATA.

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

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.

Fire Fighting Procedures:PROPER PROTECTIVE EQUIPMENT INCLUDING

BREATHING APPARATUS MUST BE WORN WHEN APPROACHING A FIRE IN A CONFINED SPACE. WATER IN A JET, USE OF HALON EXTINGUISHERS SHOULD BE AVOIDED FOR ENVIRONMENTAL REASONS. KEEP ADJACENT CONTAINERS COOL BY SPRAYING WITH WATER.

Unusual Fire/Explosion Hazard:NOT CLASSIFIED AS FLAMMABLE, BUT WILL BURN.

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

Spill Release Procedures:ABSORB OR CONTAIN LIQUID WITH SAND, EARTH OR SPILL CONTROL MAT

ERIAL. SHOVEL INTO A SUITABLE, CLEARLY MARKED CONTAINER FOR SUBSEQUENT SAFE DISPOSAL IN ACCORDANCE WITH LOCAL REGULATIONS. LARGE SPILL: PREVENT FROM SPREADING BY MAKING A BARRIER WITH SAND, EARTH OR OTHER CONTAINMENT MATERIAL. RECLAIM LIQUID DIRECTLY OR IN AN ABSORBENT. DISPOSE OF AS FOR SMALL SPILLS.

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

Handling and Storage Precautions:WHEN USING DO NOT EAT, DRINK OR SMOKE. ONLY USE IN WELL-VENTILATED AREAS.

WHEN HANDLING PRODUCT IN DRUMS

OR TOTES, SAFETY FOOTWEAR SHOULD BE WORN AND PROPER HANDLING EQUIPMENT SHOULD BE USED. PREVENT SPILLAGES. AMBIENT STORAGE TEMPERATURE. KEEP ONLY IN ORIGINAL CONTAINER. SEE OTHER PRECAUTIONS.

Other Precautions:HANDLING AND STORAGE CONT: KEEP IN A COOL, DRY, WELL-VENTILATED PLACE. KEEP AWAY FROM SOURCES OF HEAT OR IGNITION. KEEP IN BUNDED AREA. ELECTROSTATIC CHARGES MAY BE GENERATED DURING PUMPING. ENSURE ELECTRICAL CONTINUITY BY BONDING

ALL EQUIPMENT.
NEVER SIPHON BY MOUTH.

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

Respiratory Protection:NOT NORMALLY REQUIRED. IF RISK OF INHALATION
WEAR HALF MASK RESPIRATOR WITH ORGANIC VAPOUR CARTRIDGE AND BULT-IN
PARTICULATE FILTER NPF 20 (GAS ONLY)

Ventilation:USE ONLY IN WELL VENTILATED AREAS.

Protective Gloves:PVC OR NITRILE RUBBER GLOVES

Eye Protection:CHEMICAL MONOGOGGLES

Other Protective Equipment:WEAR OVERALLS TO MINIMISE CONTAMINATION OF
PE

PERSONAL CLOTHING. LAUNDER OVERALS AND UNDERGARMENT REGULARLY.

SAFETY SHOES OR BOOTS-CHEMICAL RESISTANT. IF SPLASHES ARE LIKELY TO
OCCUR WEAR A PVC APRON.

Work Hygienic Practices:WASH HAND BEFORE EATING, DRINKING, SMOKING AND
USING THE TOILET.

Supplemental Safety and Health

FIRST AID CONT: INGESTION: GIVE NOTHING BY MOUTH, IF BREATHING BUT
UNCONSCIOUS, PLACE IN THE RECOVERY POSITION. IF BREATHING HAS
STOPPED, APPLY ARTIFICIAL RESPIRATION. OBTAIN MEDICAL ATTENTION
IMMEDIATE

LY. PROD CODE:8Q482.

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

HCC:V6

Vapor Density:>1

Viscosity:8.64 MM²/S @ 40C

Evaporation Rate & Reference:>1 (ETHER=1)

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

TOXICITY- DERMAL: LD50 >2000 MG/KG (ESTIMATED VALUE). EYE

IRRITAITON: EXPECTED TO BE SLIGHTLY IRRITANT. SKIN IRRITAITON:

IRRITANT. RESPIRATORY IRRITATION: DATA NOT AVAILABLE FROM ANIMAL
STUDIES. SKIN SENSITIZATION: NOT EXPECTED TO B

E A SKIN SENSITIZER.

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

Ecological:BASIS FOR ASSESSMENT: 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 UNDER MOST ENVIRONMENTAL
CONDITIONS. EMULSIFIES IN WATER. PRODUCT REMAINING ON SOIL SURFACE
WILL PARTLY EVAPORATE, BUT A SIGNIFICANT PROPORTION WILL REMAIN

AFTER ONE DAY. IF THE PRODUCT ENTERS SOIL, ONE OR MORE
CONSTITUENTS WILL BE MOBILE AND MAY CONTAMINATE GROUNDWATER.
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 ESTABLISHED BEFOREHAND. DO
NOT DISPOSE INTO
THE ENVIRONMENT, IN DRAINS OR IN WATER COURSES.

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

Transport Information:NOT DANGEROUS FOR CONVEYANCE UNDER UN, IMO,
ADR/RID AND IATA/ICAO CODES.

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

Federal Regulatory Information:TSCA: ALL COMPONENTS LISTED.

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

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agencies):

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