Product ID:WC-393, AFSNA703 MSDS Date:06/11/1996 FSC:9150 NIIN:01-253-9619 **MSDS Number: BRQHK** === Responsible Party === Company Name: AVIATION FLUIDS SERVICE INC Address:950 KINGSLAND AVE Box:2489 **City:SAINT LOUIS** State:MO ZIP:63114 Country:US Info Phone Num:314-721-2910/2888 Emergency Phone Num: (800) 424-9300 Preparer's Name:NOT PROVIDED Chemtrec Ind/Phone:(80 0)424-9300 CAGE:0AG11 === Contractor Identification === Company Name: AVIATION FLUIDS SERVICE INC Address:950 KINGSLAND AVE Box:2489 City:ST LOUIS State:MO ZIP:63114 Country:US Phone:314-721-2888 CAGE:0AG11 Company Name: TBM INC Address:950 KINGSLAND AVE Box:City:ST LOUIS State:MO ZIP:63130-2622 Country:US Phone:800-825-1128 FAX 314-721-4990 Contract Num:SP0450-00-M-C203 CAGE:27661 **Company Name: TBM INC** Address:950 KINGSLAND AVE Box:City:ST LOUIS State:MO ZIP:63130-2622 Country:US Phone:800-825-112

8 FAX 314-721-4990 Contract Num:SP0450-99-M-B176 CAGE:27661

Ingred Name:MOLYBDENUM DISULFIDE CAS:1317-33-5 RTECS #:QA4697000 &It; Wt:5. Other REC Limits:NONE RECOMMENDED OSHA PEL:10 MG MO/M3 ACGIH TLV:10 MG MO/M3

Ingred Name:BUTOXYPOLYPROPYLENE GLYCOL CAS:9003-13-8 RTECS #:TR4680000 > Wt:95. Other REC Limits:NONE RECOMMENDED

LD50 LC50 Mixture:NOT PROVI

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

Health Hazards Acute and Chronic:INHALATION: INSOLUBLE MOLIBDENUM COMPOUNDS ARE CHARACTERIZED BY LOW TOXICITY. BUTOXYPOLYPROPYLENE GLYCOL: VAPORS GENERATED AT HIGH TEMPERATURES MAY CAUSE IRRITATION. SKIN CONTACT: DERMATITIS HAS NOT B EEN REPORTED.

BUTOXYPOLYPROPYLENE GLYCOL: IRRITATION IS UNLIKELY AFTER BRIEF CONTACT. HOWEVER, PROLONGED CONTACT MAY PRODUCE REDNESS, ITCHING, A BURNING SENSATION, DRYING AND FLAKING OF

THE SKIN. EYE CONTACT:

SOME INSOLUBLE MOLIBDENUM COMPOUNDS ARE IRRITATING TO EYES. BUTOXYPOLYPROPYLENE GLYCOL: MAY CAUSE STINGING AND PAIN WITH EXCESS TEARING AND MILD REDNESS OF THE CONJUNCTIVA. INGESTION/CHRONIC : NO DATA AVAILABLE.

Explanation of Carcinogenicity:NONE

Effects of Overexposure: INHALATION: INSOLUBLE MOLIBDENUM COMPOUNDS ARE CHARACTERIZED BY LOW TOXICITY. BUTOXYPOLYPROPYLENE GLYCOL: VAPORS GENERATED AT HIGH TEMPERATURES MAY CAUSE IRRITATION. SKIN CONTACT DERMATITIS HAS NOT B EEN REPORTED. BUTOXYPOLYPROPYLENE GLYCOL: IRRITATION IS UNLIKELY AFTER BRIEF CONTACT. HOWEVER, PROLONGED CONTACT MAY PRODUCE REDNESS, ITCHING, A BURNING SENSATION, DRYING AND FLAKING OF THE SKIN. EYE CONTACT: SOME INSOLUBLE MOLIBDENUM COMPOUNDS ARE IRRITATING TO EYES. BUTOXYPOLYPROPYLENE GLYCOL: MAY CAUSE STINGING AND PAIN WITH EXCESS TEARING AND MILD REDNESS OF THE CONJUNCTIVA. INGESTION: NO DAT A AVAILABLE.

Medical Cond Aggravated by Exposur

e:CONTACT MAY AGGRAVATE PREEXISTING DERMATITIS.

First Aid:INHALATION: REMOVE TO FRESH AIR IMMEDIATELY. IF BREATHING HAS STOPPED, PERFORM ARTIFICIAL RESPIRATION, KEEP PERSON WARM AND AT REST. TREAT SYMPTOMATICALLY AND SUPPORTIVELY. GET MEDICAL ATTENTION IMMED IATELY. SKIN CONTACT: WASH AFFECTED AREA WITH SOAP AND WATER. GET MEDICAL ATTENTION. EYE CONTACT: WASH EYES IMMEDIATELY WITH LARGE AMOUNT OF WATER

OR NORMAL SALINE. OCCASIONALLY LIFTING UPPER AND LOWE LIDS, UNTIL NO EVIDENCE OF CHEMICAL REMAINS (15-20 MINUTES). GET MEDICAL ATTENTION IMMEDIATELY. INGESTION: TREAT SYMPTOMATICALLY AND SUPPORTIVELY. GET MEDICAL ATTENTION IMMEDIATELY. IF VOMITING OCCUR S, KEEP HEAD LOWER THAN HIPS.

Flash Point:NOT PROVIDED Lower Limits:NOT PROVIDED Upper Limits:NOT PROVIDED Extinguishing Media:DRY CHEMICAL, CARBON DIOXIDE, WATER SPRAY OR REGULAR FOAM. (1990 EMERGENCY RESPONSE GUIDEBOOK, DOT P 5800.5) Fire Fighting Procedures:MOVE CONTAINER FROM FIRE AREA IF YOU CAN DO IT

WITHOUT RISK. DO NOT SCATTER SPILLED MATERIAL WITH HIGH-PRESSURE WATER STREAMS. DIKE FIRE-CONTROL WATER FOR DISPOSAL (1990 EMERGENCY GUIDEBOOK, DOT P 580 0.5. GUIDE PAGE 31). USE AGENTS SUITABLE FOR TYPE OF SURROUNDING FIRE. AVOID BREATHING HAZARDOUS VAPORS. KEEP UPWIND.

Unusual Fire/Explosion Hazard: THE SEVERITY OF THE FI

RE HAZARD HAS NOT BEEN DETERMINED FOR THIS PRODUCT OR ITS COMPONENTS.

Spill Release Procedures:STOP LEAK IF YOU CAN DO IT WITHOUT RISK. FOR SMALL SPILLS, TAKE UP WITH SAND OR OTHER ABSORBENT MATERIAL AND PLACE INTO CLEAN, DRY CONTAINERS FOR LATER DISPOSAL. KEEP UNNECESSARY PEOPLE AWAY. ISOLATE HAZARD AREA AND DENY ENTRY. Neutralizing Agent:NOT RELEVANT

Handling and Storage Precautions:STORE AWAY FROM INCOMPATIBLE SUBSTANCES.

Other Precautions:NOT PROVIDED

Respiratory Protection: THE SPECIFIC RESPIRATOR SELECTED MUST BE BASED ON CONTAMINATION LEVELS FOUND IN THE WORK PLACE. MUST BE BASED ON THE SPECIFIC OPERATION. MUST NOT EXCEED THE WORKING LIMITS OF THE RESPIRATOR AND MUST B E JOINTLY APPROVED BY THE NATIONAL INSTITUTE FOR OCCUPATIONAL SAFETY

AND HEALTH (NIOSH) AND THE MINE SAFTY AND HEALTH ADMINSTRATION (MSHA).

Ventilation: PROVIDE LOCAL EXHAUST VENTILATION TO MEET PUBLISHED EXPOSURE LIMITS.

Protective Gloves: EMPLOYEE MUST WEAR APPROPRIATE PROTECTIVE GLOVES TO PREVENT CONTACT.

Eye Protection: EMPLOYEE MUST WEAR SPLASH-PROOF OR DUST-RESISTANT SAFETY GOGGLES/FACESHIELD.

Other Protective Equipment: EMPLOYEE MUST WEAR APPROPRIATE PROTECTIVE (IMPERVIOUS) CLOTHING AND EQUIPMENT TO PREVENT REPEATED 0R PROLONGED SKIN CO

NTACTWITH THIS SUBSTANCE.

Work Hygienic Practices:WHERE THERE IS ANY POSSIBILITY THAT AN EMPLOYEE'S EYES AND/OR SKIN MAY BE EXPOSED TO THIS SUBSTANCE, THE EMPLOYER SHOULD PROVIDE EYE WASH FOUNTAIN AND QUICK DRENCH SHOWER WITHIN THE IMMEDIATE WORK AREA. Supplemental Safety and Health

NONE

HCC:N1 NRC/State Lic Num:NOT RELEVANT Boiling Pt:>200.C, 392.F Melt/Freeze Pt:M.P/F.P Text:NOT PROVIDED Decomp Temp:Decomp Text:

NOT PROVIDED
Vapor Pres:NOT AVAILABLE
Vapor Density:>1
Spec Gravity:4.8
pH:NOT RELEVANT
Viscosity:NOT PROVIDED
Evaporation Rate & amp; Reference: NIL
Solubility in Water:NOT AVAILABLE
Appearance and Odor:NOT PROVIDED
Corrosion Rate:NOT PROVIDED
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Stability Indicator/Materials to Avoid:YES
HYDROGEN PEROXIDE, OXIDIZERS (STRONG), POTASSIUM NITRATE, ACIDS
(STRONG), BASES (STRONG), MATERIALS REACTIVE WITH HYDROXYL
COMPOUNDS
Sta
bility Condition to Avoid:NOT PROVIDED
Hazardous Decomposition Products: THERMAL DECOMPOSITION MAY RELEASE
TOXIC AND/OR HAZARDOUS GASES.
Conditions to Avoid Polymerization:HAZARDOUS POLYMERIZATION HAS NOT
BEEN REPORTED TO OCCUR UNDER NORMAL TEMPERATURES AND PRESSURES.
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Toxicological Information:BUTOXYPOLYPROPYLENE GLYCOL: IRRITATION DATA:
500 MG OPEN SKIN-RABBIT MILD. TOXICITY DATA: 9100 MG/KG ORAL-RAT
LD50; 23900
MG/KG ORAL-RABBIT LD50.
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Ecological:NOT PROVIDED
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Waste Disposal Methods:OBSERVE ALL FEDERAL, STATE AND LOCAL REGULATIONS
WHEN STORING OR DISPOSING OF THIS SUBSTANCE.
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Transport Information:NOT D.O.T. REGULATED.
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A Title III Information:NOT PROVIDED Federal Regulatory Information:NOT PROVIDED State Regulatory Information:NOT PROVIDED

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