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MARTIN MARIETTA CORP.,AERO & NAVAL SYS.,OCEAN SYS. -- TETRAHYDROFURAN -- 6810-01-271-4835

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

Product ID:TETRAHYDROFURAN
MSDS Date:09/01/1985
FSC:6810
NIIN:01-271-4835
MSDS Number: BMDWV
=== Responsible Party ===
Company Name:MARTIN MARIETTA CORP.,AERO & NAVAL SYS.,OCEAN SYS.
Address:6711 BAYMEADOW DRIVE
City:GLEN BURNIE
State:MD
ZIP:21061-6401
Country:US
Info Phone
Num:301-760-3100
Emergency Phone Num:301-760-3100
Preparer's Name:J. O. ACCROCCO
CAGE:54497
=== Contractor Identification ===
Company Name:HYDROSCIENCE INC., SUB. OF WHITEHALL CORPORATION
Address:2659 NOVA DRIVE
Box:29304
City:DALLAS
State:TX
ZIP:75229-2220
Country:US
Phone:214-247-9052
CAGE:59320
Company Name:MARTIN MARIETTA CORP.,AERO & NAVAL SYS.,OCEAN SYS.
Address:6711 BAYMEADOW DRIVE
Box:City:GLEN BURNIE
State:MD
ZIP:21061-6401
Country:US
Phone:301-760-3100
CAGE:54497

========== Compos

ition/Information on Ingredients ==========

Ingred Name:TETRAHYDROFURAN (SARA III)
CAS:109-99-9
RTECS #:LU5950000
= Wt:100.
Other REC Limits:NONE SPECIFIED
OSHA PEL:200 PPM/250 STEL
ACGIH TLV:200 PPM/250STEL;9192
EPA Rpt Qty:1000 LBS
DOT Rpt Qty:1000 LBS

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

LD50 LC50 Mixture:LD50 ORAL RAT IS 3000 MG/KG
Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazard
s Acute and Chronic:ACUTE: IRRITATION, DEFATTING ACTION, NARCOTIC AND SYSTEMIC EFFECTS, MODERATELY TOXIC BY INGESTION. CHRONIC: IRRITATION. THF ITSELF DOES NOT CAUSE INTERNAL INJURY. HOWEVER, IF FURAN IS PRESENT, IT MAY CAUSE LIVER AND KIDNEY DAMAGE.
Effects of Overexposure:EYES: IRRITATION, BURNS. SKIN: IRRITATION, ALLERGIC SENSITIZATION. INHALATION: IRRITATION OF NOSE AND RESPIRATORY TRACT, NAUSEA, DIZZINESS, HEADACHE, NARCOSIS.
Medical Cond Aggravated by Exposure:NON
E SPECIFIED BY MANUFACTURER.

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

First Aid:EYES: FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES, GET MEDICAL ATTENTION. SKIN: FLUSH WITH WATER WHILE REMOVING CONTAMINATED CLOTHING. IF IRRITATION PERSISTS, SEE DOCTOR. INHALATION: REMOVE TO FRESH AIR. GIVE CPR/OXYGEN IF NEEDED. SEE DOCTOR. INGESTION: GIVE MILK OR WATER. DO NOT INDUCE VOMITING. SEE DOCTOR. NOTHING BY MOUTH IF UNCONSCIOUS OR HAVING CONVULSION
S.

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

Flash Point Method:TCC
Flash Point:=-17.2C, 1.F
Autoignition Temp:=321.1C, 610.F
Lower Limits:1.8
Upper Limits:11.8
Extinguishing Media:USE CARBON DIOXIDE, FOAM, OR DRY CHEMICAL. DO NOT USE A SOLID STREAM OF WATER. PRODUCT WILL FLOAT AND SPREAD THE FIRE.
Fire Fighting Procedures:WEAR FIRE FIGHTING PROTECTIVE EQUIPMENT AND A FULL FACED SELF CONTAINED BREATHING APPARATUS. COOL FIRE EXPOSED CONTAINERS WITH WAT

ER SPRAY.
Unusual Fire/Explosion Hazard:UNSTABILIZED TETRAHYDROFURAN FORMS UNSTABLE PEROXIDES WHICH MAY EXPLODE AND BURST CONTAINERS. VAPORS HEAVIER THAN AIR, CAN TRAVEL ALONG GROUND AND FLASHBACK.

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

Spill Release Procedures:VENTILATE. REMOVE IGNITION SOURCES. REMOVE PERSONNEL. WEAR PROTECTIVE EQUIPMENT. ABSORB ON PAPER TOWEL OR VERMICULITE AND PLACE IN APPROPIATE CONTAINER AND COVER.
Neutralizing Agent:NONE NOTE
D.

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

Handling and Storage Precautions:STORE IN COOL, DRY, WELL VENTILATED AREA, IN SEALED METAL CONTAINERS OR AMBER BOTTLES. KEEP AWAY FROM OXIDIZING AGENTS, HEAT, SPARKS AND OPEN FLAMES.
Other Precautions:PROTECT CONTAINERS FROM PHYSICAL DAMAGE. DO NOT SMOKE OR EAT IN AREAS WHERE THF IS BEING USED OR HANDLED. FLUSH EMPTY CONTAINERS PROMPTLY WITH WATER. AVOID STORAGE IN PRESENCE OF AIR OR LIGHT.

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

Respiratory Protection:NONE NEEDED WITH ADEQUATE VENTILATION. NIOSH/MSHA-APPROVED FULL FACEPIECE RESPIRATOR IF TLV IS EXCEEDED.
Ventilation:GENERAL AND LOCAL EXHAUST TO MAINTAIN EXPOSURE LEVEL BELOW TLV. USE EXPLOSION-PROOF EQUIPMENT.
Protective Gloves:PVA-COATED GLOVES.
Eye Protection:CHEMICAL SPLASH GOGGLES OR FACESHIELD.
Other Protective Equipment:WEAR PROTECTIVE CLOTHING AND EQUIPMENT. PROVIDE EYE WASH STATION AND SAFETY SH
OWER. DO NOT WEAR CONTACT
LENSES.
Work Hygienic Practices:WASH THOROUGHLY AFTER HANDLING. REMOVE CONTAMINATED CLOTHING IMMEDIATELY, AND LAUNDER BEFORE REUSE.
Supplemental Safety and Health
DO NOT STORE FOR MORE THAN A FEW MONTHS AFTER CONTAINER HAS BEEN OPENED. TEST FOR PEROXIDES BEFORE DISTILLING OR EVAPORATING. DO NOT DISTILL IF TEST SHOW >0.05% PEROXIDES. NEVER DISTILL OR EVAPORATE T
O DRYNESS.

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

HCC:F2
B

oiling Pt:=66.1C, 151.F
Melt/Freeze Pt:=-108.3C, -163.F
M.P/F.P Text:FZ PT
Vapor Pres:143 @ 68F
Vapor Density:2.5
Spec Gravity:0.888
Evaporation Rate & Reference:8.0 (BUTYL ACETATE = 1)
Solubility in Water:COMPLETE
Appearance and Odor:COLORLESS, MOBILE LIQUID WITH AN ETHER-LIKE ODOR, DETACTABLE ABOVE 50 PPM IN AI
Percent Volatiles by Volume:100

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

Stability Indicator/Materials to Avoid:YES
STRONG OXIDIZING AGENTS, LITHIUM
ALUMINUM HYDRIDE, SODIUM OR POTASSIUM
HYDROXIDE.
Stability Condition to Avoid:HIGH HEAT, OPEN FLAMES AND OTHER SOURCES OF IGNITION
Hazardous Decomposition Products:IRRITATING FUMES, CARBON MONOXIDE, CARBON DIOXIDE.
Conditions to Avoid Polymerization:IT MAY POLYMERIZE IN PRESENCE OF CATIONIC INITIATORS SUCH AS SELECTED LEWIS ACIDS OR STRONG PROTON ACIDS.

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

Waste Disposal Methods:NOTIFY YOUR LOCAL ENVIRONMENTA
L OFFICER. KEEP IN
COVERED CONTAINERS PENDING DISPOSAL. DISPOSE OF IN ACCORDANCE WITH FEDERAL.STATE AND LOCAL REGULATIONS. MANUFACTURER RECOMMENDS INCINERATION. EPA HAZAR DOUS WASTE CODE IS U213.

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