

WING INFLATABLES, INC -- TETRAHYDROFURAN -- 2040-01-411-4558

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

Product ID:TETRAHYDROFURAN

MSDS Date:08/31/2000

FSC:2040

NIIN:01-411-4558

Status Code:A

Kit Part:Y

MSDS Number: CKVGN

=== Responsible Party ===

Company Name:WING INFLATABLES, INC

Address:1132 SAMOA BLVD

Box:279

City:ARCATA

State:CA

ZIP:95521

Country:US

Info Phone Num:707-826-2887

Emergency Phone Num:80

0-535-5053 (INFOTRAC)

Preparer's Name:NOT PROVIDED

CAGE:1GTC0

=== Contractor Identification ===

Company Name:WING INFLATABLES, INC

Address:1132 SAMOA BLVD

Box:279

City:ARCATA

State:CA

ZIP:95521

Country:US

Phone:707-826-2887

Contract Num:SP0760-00-C-6825

CAGE:1GTC0

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

Ingred Name:TETRAHYDROFURAN

CAS:109-99-9

RTECS #:LU5950000

> Wt:95.

Other REC Limits:NOT PROVIDED

OSHA PEL:590 MG/M3;200 PPM

ACGIH TLV:590 MG/M3;200 PPM

ACGIH ST

EL:737 MG/M3;250 PPM

EPA Rpt Qty:1000 LBS

DOT Rpt Qty:1000 LBS

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

LD50 LC50 Mixture:NOT PROVIDED

Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO

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

Health Hazards Acute and Chronic:EFFECTS OF ACUTE OVEREXPOSURES: EYES:
CAUSES IRRITATION, BURNS, IF NOT RMOVED. SKIN: PROLONGED OR
REPEATED CONTACT CAN CAUSE MODERATE IRRITATION, DEFATTING,
DERMATITIS. INHALATION:

EXCESSIVE INHALATIO N OF VAPORS CAN CAUSE
NASAL AND RESPIRATORY IRRITATION AND CENTRAL NERVOUS SYSTEM
EFFECTS, INCLUDING DIZZINESS, WEAKNESS, FATIGUE, NAUSEA, HEADACHE,
AND POSSIBLE UNCONSCIOUSNESS. CHRONIC: OVER-EXPOSUR E TO THIS
MATERIAL (OR ITS COMPONENTS) HAS APPARENTLY BEEN FOUND TO CAUSE THE
FOLLOWING EFFECT IN LABORATORY ANIMALS: LIVER ABNORMALITIES, KIDNEY
DAMAGE.

Explanation of Carcinogenicity:NONE

Effects of Overexposure:NOT PROVIDED

Medical Cond Aggravated by E
xposure:NOT PROVIDED

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

First Aid:SKIN: THOROUGHLY WASH EXPOSED AREA WITH SOAP AND WATER.
REMOVE CONTAMINATED CLOTHING. LAUNDER CONTAMINATED CLOTHING BEFORE
RE-USE. INGESTION: DO NOT INDUCE VOMITING. IMMEDIATELY DRINK TWO
GLASSES OF W ATER. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS
PERSON. CALL PHYSICIAN OR TRANSPORT TO AN EMERGENCY FACILITY.
INHALATION: IF AFFECTED, REMOVE INDIVIDUAL TO FRESH AIR. IF

BREATHING IS DIFFICULT, A DMINISTER OXYGEN. IF BREATHING HAS
STOPPED, GIVE ARTIFICIAL RESPIRATION. KEEP PERSON WARM AND QUIET,
AND OBTAIN MEDICAL ATTENTION.

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

Flash Point Method:TCC

Flash Point:=-21.1C, -6.F

Lower Limits:2.0

Extinguishing Media:REGULAR FOAM, CARBON DIOXIDE OR DRY CHEMICAL.

Fire Fighting Procedures:WEAR SELF-CONTAINED BREATHING APPARATUS WITH A
FULL FACEPIECE OPERATED IN THE POSITIVE PRESSURE DEMAN

D MODE WHEN
FIGHTING FIRES.

Unusual Fire/Explosion Hazard:MATERIAL IS HIGHLY VOLATILE AND READILY GIVES OFF VAPORS WHICH MAY TRAVEL ALONG THE GROUND OR BE MOVED BY VENTILATION AND IGNITED BY PILOT LIGHTS, OTHER FLAMES, SPARKS, HEATERS, SMOKING, ELECTRIC MOTORS, STATIC DISCHARGE, OR OTHER IGNITION SOURCES AT LOCATIONS DISTANT FROM MATERIAL HANDLING POINT.

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

Spill Release Procedures:ELIMINATE ALL SOURCES OF IGNITION SUCH AS

FLARES, FLAMES (INCLUDING PILOT LIGHTS), AND ELECTRICAL SPARKS.
SMALL SPILL: ABSORB ON PAPER, VERMICULITE, FLOOR ABSORBENT AND TRANSFER TO HOOD. VENTILATE AREA. LARGE SPILLS: WEAR PROTECTIVE EQUIPMENT. STOP SPILL AT SOURCE, DIKE AREA, PUMP LIQUID TO SALVAGE TANK. CLEAN UP RESIDUE WITH ABSORBENT MATERIALS. PREVENT RUNOFF FROM ENTERING DRAINS, SEWERS, ETC..

Neutralizing Agent:NOT RELEVANT

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

Handling and Storage Precautions:CONTAINERS OF THIS MATERIAL MAY BE HAZARDOUS WHEN EMPTIED, SINCE EMPTIED CONTAINERS RETAIN PRODUCT RESIDUES (VAPOR, LIQUID, AND/OR SOLID); ALL HAZARD PRECAUTIONS GIVEN IN THE DATA SHEET MUST BE OBSERVED.

Other Precautions:DRY ETHER READILY FORMS EXPLOSIVE PEROXIDES WITH AIR. NEVER USE WELDING OR CUTTING TORCH ON OR NEAR DRUM (EVEN EMPTY) BECAUSE PRODUCT (EVEN JUST RESIDUE) CAN IGNITE EXPLOSIVELY. ALL FIVE GALLON PAOLS AND LARGER METAL CONTAINERS, INCLUDING TANK CARS AND TANK TRUCK, SHOULD BE GROUNDED AND/OR BONDED WHEN MATERIAL IS TRANSFERRED.

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

Respiratory Protection:IF WORKPLACE EXPOSURE LIMIT(S) OF PRODUCT OR ANY COMPONENT IS EXCEEDED, A NIOSH/MSHA APPROVED AIR SUPPLIED RESPIRATOR IS ADVISED IN ABSENCE OF PROPER ENVIRONMENTAL CONTROL. OSHA REGULATIONS ALSO PERMIT OTHER NIOSH/MSHA RESPIRATORS (NEGATIVE PRESSURE TYPE) UNDER SPECIFIED CONDITIONS.

ONS.

ENGINEERING/ADMINISTRATIVE CONTROLS SHOULD BE IMPLEMENTED TO REDUCE EXPOSURE

Ventilation:PROVIDE SUFFICIENT MECHANICAL (GENERAL AND/OR LOCAL EXHAUST) VENTILATION TO MAINTAIN EXPOSURE BELOW TLV(S).

Protective Gloves:POLYVINYL ALCOHOL

Eye Protection:CHEMICAL SPLASH GOGGLES IN COMPLIANCE WITH OSHA REGULATIONS ARE ADVISED.

Other Protective Equipment:TO PREVENT REPEATED OR PROLONGED SKIN CONTACT, WEAR IMPERVIOUS CLOTHING AND BOOTS.

Work Hygienic Practices:NOT PROVIDED

Supplem

ental Safety and Health

ITEM IS A KIT AND IS ASSOCIATED WITH PART NUMBER: WMP730R-1: SUPPLIED BY CAGE:1GTCO. KIT CONSIST OF: UR-4980 (ADHESIVE), CATALYST UV AND TETRAHYDROFURAN.

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

HCC:F2

NRC/State Lic Num:NOT RELEVANT

Boiling Pt:=66.1C, 151.F

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

Decomp Temp:Decomp Text:NOT PROVIDED

Vapor Pres:143 @ 68F

Vapor Density:2.4

Spec Gravity:.890

Viscosity:NOT PROVIDED

Evaporation Rate &

Reference:8.0 (N-BUTYL ACETATE)

Solubility in Water:NOT PROVIDED

Appearance and Odor:NOT PROVIDED

Percent Volatiles by Volume:100

Corrosion Rate:NOT PROVIDED

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

Stability Indicator/Materials to Avoid:YES

AVOID CONTACT WITH: STRONG-OXIDIZING AGENTS.

Stability Condition to Avoid:STABLE-CAN FORM POTENTIALLY EXPLOSIVE PEROXIDES UPON LONG STANDING IN AIR.

Hazardous Decomposition Products:MAY FORM TOXIC MATERIALS: CARBON DIOXI

DE AND CARBON MONOXIDE, VARIOUS HYDROCARBONS, ETC.

Conditions to Avoid Polymerization:POLYMERIZATION CAN OCCUR IN THE PRESENCE OF CATIONIC INITATORS, SUCH AS SELECTED LEWIS ACIDS OR STRONG PROTON ACIDS.

===== Toxicological Information =====

Toxicological Information:NOT PROVIDED

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

Ecological:NOT PROVIDED

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

Waste Disposal Methods:

SMALL SPILL: ALLOW VOLATILE PORTION TO EVAPORATE IN HOOD. ALLOW SUFFICIENT TIME FOR VAPORS TO COMPLETELY CLEAR HOOD DUCTWORK. DISPOSE OF REMAINING MATERIAL IN ACCORDANCE WITH APPLICABLE REGULATION. LARGE SPILL: DESTROY BY LIQUID INCINERATION. CONTAMINATED ABSORBENT MAY BE DEPOSITED IN LANDFILL IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS

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

Transport Information:DOT NAME (AND SYNONYMS) AND NO.: TETRAHYDROFURAN (THF), UN2056. DOT HAZARD CLASSIFICATION: FLAMMABLE LIQUID (173.115)

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

SARA Title III Information:NOT PROVIDED
Federal Regulatory Information:NOT PROVIDED
State Regulatory Information:NOT PROVIDED

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

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