

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:800

-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 STE

L: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: E

XCESSIVE 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 Ex
posure: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 DEMAND

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 MOTO RS, STATIC DISCHARGE, OR OTHER
IGNITION SOURCES AT LOCATIONS DISTANT FROM MATERIAL HANDLING POINT.

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

Spill Release Procedures:ELIMINATE ALL SOURCES OF IGN
ITION SUCH AS

FLARES, FLAMES (INCLUDING PILOT LIGHTS), AND ELECTRICAL SPARKS.
SMALL SPILL: ABSORB ON PAPER, VERMICULITE, FLOOR ABSORBENT AND
TRANSFER TO HOOD. VENTILATE ARE A. 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 =====

H
andling 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 OBSERV ED.

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 RESDUE) CAN IGNITE EXP;OSIVELY. ALL FIVE
GALLON PAOLS A ND LARGER METAL CONT
AINERS, INCLUDING TANK CARS AND
TANK TRUCK, SHOULD BE GROUNDED AND/OR BONDED WHE N MATERIAL IS
TRANSF

===== 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 PERMI T OTHER NIOSH/MSHA RESPIRATORS
(NEGATIVE PRESSURE TYPE) UNDER SPECIFIED CONDITIO

NS.
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
Supplemental 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 DIOXID

E 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 =====

Disclaimer (provided with this information by the compiling agencies):
This information is formulated for use by elements of the Department of

rtment

of Defense. The United States of America in no manner whatsoever, expressly or implied, warrants this information to be accurate and disclaims all liability for its use. Any person utilizing this document should seek competent professional advice to verify and assume responsibility for the suitability of this information to their particular situation.