

GACO WESTERN INC -- N-450-9 -- 6850-01-292-5188

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

Product ID:N-450-9
MSDS Date:12/01/1997
FSC:6850
NIIN:01-292-5188
Status Code:A
MSDS Number: CKXGM
=== Responsible Party ===
Company Name:GACO WESTERN INC
Address:18700 S CENTER PKY
Box:88698
City:SEATTLE
State:WA
ZIP:98188-4636
Country:US
Info Phone Num:206-575-0450
Emergency Phone Num:206-575-0450 800-424-9300(CH
EMTREC)
CAGE:09463
=== Contractor Identification ===
Company Name:GACO WESTERN INC
Address:18700 S CENTER PKY
Box:88698
City:SEATTLE
State:WA
ZIP:98188-4636
Country:US
Phone:206-575-0450
Contract Num:SP0450-99-M-ND62
CAGE:09463
Company Name:RADIAN INTL LLC
Address:8501 N MOPAC BLVD
Box:201088
City:AUSTIN
State:TX
ZIP:78720-1088
Country:US
Phone:512-419-5224
Contract Num:SPO450-00-D-4021
CAGE:29913

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

Ingred Name:TOLUENE
CAS:108-

88-3
RTECS #:XS5250000

= Wt:62.

Other REC Limits:NONE RECOMMENDED

ACGIH TLV:50 PPM

ACGIH STEL:150 PPM (OSHA)

EPA Rpt Qty:1000 LBS

DOT Rpt Qty:1000 LBS

Ingred Name:METHYL ETHYL KETONE

CAS:78-93-3

RTECS #:EL6475000

= Wt:38.

ACGIH TLV:200 PPM

ACGIH STEL:300 PPM

EPA Rpt Qty:5000 LBS

DOT Rpt Qty:5000 LBS

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

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

Health Hazards Acute and Chronic:NONE SPECIFIED BY MANUFACTURER

Explana

tion of Carcinogenicity:NONE SPECIFIED BY MANUFACTURER.

Effects of Overexposure:INHALATION OF HIGH CONCENTRATIONS CAN PRODUCE
CENTRAL NERVOUS SYSTEM DEPRESSION. SKIN CONTACT CAN CAUSE SEVERE
IRRITATION, POSSIBLE BURNS, DEFATTING AND DERMATITIS. EYE CONTACT
CAUSES SEVERE IRRITATIO N, REDNESS, TEARING AND BLURRED VISION.

Medical Cond Aggravated by Exposure:REPEATED EXPOSURE CAN CAUSE
ALLERGIC REACTION WITH DEVELOPMENT OF OCCUPATIONAL ASTHMA. LONG
TERM REPEATED EXPOSURE TO LOW V
APOR CONCENTRATIONS MAY CAUSE
CHRONICALLY PROGRESSIVE PULMONARY DISEASE.

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

First Aid:IF OVERCOME BY VAPORS, REMOVE TO FRESH AIR AND IF BREATHING
HAS STOPPED, GIVE ARTIFICIAL RESPIRATION. EYE CONTACT: FLUSH
IMMEDIATELY WITH WATER & CALL A PHYSICIAN AS SOON AS POSSIBLE. SKIN
CONTACT: WA SH WITH SOAP AND WATER AND REMOVE CONTAMINATED
CLOTHING. INGESTION: SEE A PHYSICIAN AS SOON AS POSSIBLE.

=====

== Fire Fighting Measures =====

Flash Point Method:TCC

Flash Point:=-6.5C, 20.F

Lower Limits:1.0

Extinguishing Media:FOAM, CARBON DIOXIDE, DRY CHEMICAL, OR WATER FOG.

Fire Fighting Procedures:COOL CONTAINERS WITH WATER FOG TO PREVENT RUPTURE. BOILOVER MAY OCCUR WHEN TEMPERATURE OF MATERIAL NEARS SOLVENT BOILING POINT. DO NOT EXTINGUISH FLAME AT LEAK BECAUSE POSSIBILITY OF UNCONTROLLED EXPL OSIVE REIGNITION EXISTS. CUT OFF FUEL &/OR ALLOW FIRE TO BURN OUT. EXTIN

GUISH RESIDUAL FIRES WITH CHEMICAL POWDER FOAM.

Unusual Fire/Explosion Hazard:SPILLS OR VAPOR LEAKS READILY FORM FLAMMABLE MIXTURES AT OR ABOVE THE FLASH POINT. IT IS UNLIKELY THAT THIS PRODUCT WILL EXPLODE DUE TO MECHANICAL IMPACT BUT FIRE OR EXPLOSION MAY OCCUR FROM STATIC AC CUMULATION AND DISCHARGE.

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

Spill Release Procedures:REMOVE ALL SOURCES OF IGNITION. IN ENCLOSED AREAS, CLEANUP PERSONNEL SHOULD WEAR SELF-CONTAINED BREATHING APPARATUS. COVER SPILLS WITH SAWDUST, VERMICULITE, OR OTHER ABSORBENT MATERIAL. COLLECT MATERI AL FOR DISPOSAL WITH NON-SPARKING TOOLS.

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

Handling and Storage Precautions:KEEP CONTAINERS CLOSED AND STORE IN A COOL DRY PLACE WITH ADEQUATE EXPLOSION PROOF VENTILATION. KEEP AWAY FROM HEAT, SPARKS AND OPEN FLAMES. GROUND EQUIPMENT TO PREVENT ACCUMULATION OF STATIC CHARGE.

Other Preca

utions:HMIS HAZARD RATINGS: H-2, F-3, R-0, PP-I. DEGREE OF HAZARD: 4=EXTREME, 3=HIGH, 2=MODERATE, 1=SLIGHT, 0=INSIGNIFICANT.

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

Respiratory Protection:USE ORGANIC VAPOR CANISTERS FOR LOW CONCENTRATIONS. USE SELF-CONTAINED BREATHING APPARATUS IN ENCLOSED AREAS INVOLVING HIGHER VAPOR CONCENTRATIONS.

Ventilation:LOCAL EXHAUST/MECHANICAL: EXPLOSION PROOF MECHANICAL EQUIPMENT CAPABLE OF KEEPING VAPOR CONCENTRATIONS BEL

OW THE TLV.

Protective Gloves:CHEMICAL RESISTANT PLASTIC OR RUBBER GLOVES.

Eye Protection:SAFETY GOGGLES OR FACE SHIELD.

Other Protective Equipment:EYE BATH AND SAFETY SHOWER SHOULD BE AVAILABLE.

Supplemental Safety and Health

PHYSICAL PROPERTIES: VAPOR PRESSURE (MMHG @20C/68F) TOLUENE: 22. METHYL ETHYL KETONE: 70. WEIGHT PER GALLON: 7.0 LBS. CHEMICAL FAMILY: SOLVENT.

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

HCC:F2

Boiling Pt:B.P. Text:172-233F

Vapor Pr

es:SUPPLEMENT

Vapor Density:>1

Spec Gravity:0.841

Evaporation Rate & Reference:SLOWER (ETHER=1)

Appearance and Odor:NONE SPECIFIED BY MANUFACTURER.

Percent Volatiles by Volume:100

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

Stability Indicator/Materials to Avoid:YES

STRONG OXIDIZING MATERIALS LIKE LIQUID CHLORINE AND CONCENTRATED OXYGEN.

Stability Condition to Avoid:HEAT, SPARKS AND OPEN FLAMES.

Hazardous Decomposition Products:INCOMPLETE COMBUSTION MAY PRODUCE CARBON DIOXIDE AND/OR CARBON MONOXIDE.

Conditions to Avoid Polymerization:WILL NOT OCCUR.

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

Toxicological Information:AVAILABLE DATA SHOWS THAT NONE OF THE INGREDIENTS ARE CARCINOGENIC, TERATOGENIC OR MUTAGENIC BUT SOLVENT CONTAINED COULD BE HARMFUL OR FATAL IF SWALLOWED. VAPOR HARMFUL. MAY CAUSE SKIN OR EYE IRRITATION. KEEP OUT OF THE REACH OF CHILDREN.

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

=====

Waste Disposal Methods:DISPOSE OF IN ACCORDANCE WITH FEDERAL,STATE AND LOCAL REGULATIONS.

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

SARA Title III Information:TOLUENE; CAS# 108-88-3 AND METHYL ETHYL KETONE CAS# 78-93-3 - THESE INGREDIENTS ARE SUBJECT TO SARA TITLE III, SECTION 313 REPORTING.

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