

RAABE CORPORATION THE PRECISION COLOR COMPANY -- GENERAL PURPOSE WHITE  
ACRYLIC LACQUER, 01449 001714 604 -- -

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

Product ID:GENERAL PURPOSE WHITE ACRYLIC LACQUER, 01449 001714 604  
MSDS Date:09/11/1997  
FSC:NIIN:Submitter:N EN  
Status Code:A  
MSDS Number: CKZVV  
=== Responsible Party ===  
Company Name:RAABE CORPORATION THE PRECISION COLOR COMPANY  
Address:N92 W 14701 ANTHONY AVE.  
Box:1090  
City:MENOMONEE FALLS  
State:WI  
ZIP:53051-1630  
Country:US  
Info Phone Num:414-255-9500/800-966-7580  
Emergency Phone Num:414-255-9500  
Chemtrec Ind/Phone:(800)424-9300  
CAGE:0A3L4

=== Contractor Identification ===  
Company Name:RAABE CORPORATION THE PRECISION COLOR COMPANY  
Address:N92 W14701 ANTHONY AVE.  
Box:1090  
City:MENOMONEE FALLS  
State:WI  
ZIP:53051-1630  
Country:US  
Phone:414-255-9500/800-966-7580  
CAGE:0A3L4

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

Ingred Name:N-BUTANE. ( VAPOR PRESSURE: 879.100 MMHG @ 68F; LEL: 1.80 )  
CAS:106-97-8  
RTECS #:EJ4200000  
= Wt:8.  
OSHA PEL:800 PPM  
ACGIH TLV:800 PPM  
ACGIH STEL:NO INFO

Ingred Name:NITROCELLULOSE. (LEL: 100.00)  
CAS:9004-70-0  
RTECS #:QW0970000  
= Wt:1.  
ACGIH TLV:NOT EST.  
ACGIH STEL:NOT EST.

Ingred Name:PROPANE. (VAPOR PRESSURE: 5585.200 MMHG @ 68F; LEL: 2.20)  
CAS:74-98-6  
RTECS #:TX2275000  
= Wt:16.  
ACGIH TLV:1000 PPM  
ACGIH STEL:NO INFORMATION

Ingred Name:TITANIUM DIOXIDE  
CAS:13463-67-7  
RTECS #:XR2275000  
= Wt:5.  
OSHA PEL:10 MG/M3  
ACGIH TLV:10 MG/M3  
ACGIH STEL:NO INFO

Ingred Name:XYLENE. (LEL: 1.00)  
CAS:1330-20-7  
RTECS #:ZE2100000  
= Wt:1.  
OSHA PEL:100 PPM  
ACGIH TLV:100 PPM  
ACGIH STEL:150 PPM  
EPA Rpt Qty:1000 LBS  
DOT Rpt Qty:1000 LBS

Ingred Name:BUTYL BENZYL PHTHALATE. (LEL: .30)  
CAS:85-68-7  
RTECS #:TH9990000  
= Wt:2.  
OSHA PEL:5 MG/M3  
ACGIH TLV:5 MG/M3  
ACGIH STEL:N.E.  
EPA Rpt Qty:100 LBS  
DOT Rpt Qty:100 LBS

Ingred Name:ACETONE. (VAPOR PRESSURE: 185.000 MMHG @68F; LEL: 2.60)  
CAS:67-64-1  
RTECS #:AL3150000  
= Wt:35.  
OSHA PEL:750 PPM  
OSHA STEL:1000 PPM  
ACGIH TLV:750 PPM  
ACGIH STEL:1000 PPM  
EPA Rpt Qty:5000 LBS  
DOT Rpt Qty:5000 LBS

Ingred Name:METHYL ETHYL KETONE. (VAPOR PRESSURE: 85.000 MMHG @68F;  
LEL: 1.80)  
CAS:78-93-3  
RTECS #:EL6475000  
= Wt:5.  
OSHA PEL:200 PPM  
ACGIH TLV:200 PPM  
ACGIH STEL:300 PPM  
EPA Rpt Qty:5000 LBS  
DOT Rpt Qty:5000 LBS

Ingred Name:TOLUENE. (VAPOR PRESSURE: 38.000 MMHG @ 68F; LEL: 1.40)  
CAS:108-88-3  
RTECS #:XS5250000  
= Wt:10.  
OSHA PEL:50 PPM  
ACGIH TLV:50 PPM  
ACGIH STEL:NO INFO  
EPA Rpt Qty:1000 LBS  
DOT Rpt Qty:1000 LBS

Ingred Name:PROPYLENE GLYCOL METHYL ETHER ACETATE. (VAPOR PRESSURE:  
3.700 MMHG @ 68F; LEL: 1.30)  
CAS:108-65-6  
RTECS #:AI8925000  
= Wt:6.

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

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES  
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO  
Health Hazards Acute and Chronic:CONTAINS TOLUENE WHICH APPEARS ON THE  
NAVY OCCUPATIONAL CHEMICAL REPRODUCTIVE HAZARDS LIST. SEEK

CONSULTATION FROM APPROPRIATE HEALTH PROFESSIONALS CONCERNING SAFE HANDLING AND EXPOSURE INFORMATION (F P N). HARMFUL IF SWALLOWED OR INHALED. CAUSES EYE AND SKIN IRRITATION. VAPORS IRRITATING TO EYES AND RESPIRATORY TRACT. EYE: MAY CAUSE SEVERE CORNEAL INJURY IF LIQUID COMES IN CONTACT WITH EYES. SKIN: MAY CAUSE SKIN IRRITATION. REPEATED AND PROLONGED CONTACT WITH SKIN MAY CAUSE ALLERGIC DERMATITIS. INHALATION: EXPOSURE TO HIGH CONCENTRATIONS OF VAPOR MAY CAUSE DIZZINESS, BREATHING DIFFICULTY, HEADACHES OR RESPIRATORY (OVEREXPOSURE).

Explanation of Carcinogenicity:THIS PRODUCT CONTAINS NO REPORTED CARCINOGENS OR SUSPECTED CARCINOGENS.

Effects of Overexposure:HEALTH HAZ (CONT'D): IRRITATION. EXTREMELY HIGH CONCENTRATIONS MAY CAUSE DROWSINESS, STAGGERING, CONFUSION, UNCONSCIOUSNESS, COMA OR DEATH. LIQUID OR VAPOR MAY BE IRRITATING TO SKIN, EYES, THROAT OR LUNGS. INTENTIONAL MISUSE BY DELIBERATELY CONCENTRATING & INHALING CONTENTS OF THIS PRODUCT CAN BE HARMFUL OR FATAL. INGESTION: MODERATELY TOXIC. MAY CAUSE STOMACH DISCOMFORT, NAUSEA,VOMITING, DIARRHEA AND NARCOSIS. ASPIRATION OF MATERIAL INTO LUNGS IF SWALLOWED OR IF VOMITING OCCURS CAN CAUSE CHEMICAL PNEUMONITIS WHICH CAN BE FATAL. CHRONIC OVEREXPOSURE TO (TOXICOLOGICAL INFO)

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

First Aid:EYES: IMMEDIATELY FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. GET MEDICAL ATTENTION IF IRRITATION PERSISTS. SKIN: WASH THOROUGHLY WITH SOAP AND WATER AND SEEK MEDICAL ATTENTION. REMOVE CONTAMINATED CLOTHING. LAUNDRY CONTAMINATED CLOTHING BEFORE REUSE. INHALATION: MOVE PERSON TO FRESH AIR. IF BREATHING STOPS, APPLY ARTIFICIAL RESPIRATION AND SEEK MEDICAL ATTENTION. INGESTION: SINCE THIS PRODUCT MAY CONTAIN MATERIALS WHICH CAN CAUSE LUNG DAMAGE IF ASPIRATED INTO THE LUNGS, DECISION WHETHER TO INDUCE VOMITING OR NOT MUST BE MADE BY A PHYSICIAN AFTER CAREFUL CONSIDERATION OF ALL MATERIALS INGESTED. NOTE TO PHYSICIAN: NONE.

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

Flash Point:<-31.5C, -25.F

LESS THAN -25F

Lower Limits:.30

Upper Limits:100.00

Extinguishing Media:USE DRY CHEMICAL, CO\*2, CHEM FOAM. WATER SPRAY SHOULD NOT BE USED EXCEPT TO KEEP DOWN VAPORS/COOL CLOSED CONTNR TO PREVENT PRESSURE BUILDUP. IF WATER IS USED, FOG NOZZ PREFERRED.

Fire Fighting Procedures:FULL PROTECTIVE EQUIPMENT INCLUDING NIOSH-APPROVED SCBA TO AVOID INHALATION OF VAPORS. IF WATER USED, FOG NOZZLES ARE PREFERRED. KEEP CONTAINERS TIGHTLY CLOSED. EXTREMELY FLAMMABLE LIQUID AND VAPOR. VAPORS MAY CAUSE FLASH FIRE OR EXPLOSION. EXTREMELY FLAMMABLE AEROSOL.

Unusual Fire/Explosion Hazard:FLAMMABILITY LIMIT: LOW-N/A,HIGH-N/A. CLOSED CONTAINERS & AEROSOL CONTAINERS MAY EXPLODE WHEN EXPOSED TO EXTREME HEAT.CONTENTS UNDER PRESSURE. PRODUCT VAPORS ARE HEAVIER THAN AIR & MAY TRAVEL A LONG DISTANCE TO A SOURCE OF IGNITION & FLASH BACK. ISOLATE FROM HEAT, SPARKS, & OPEN FLAME.

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

Spill Release Procedures:REMOVE ALL SOURCES OF IGNITION. AVOID HEAT, SPARKS, FLAMES & ANYTHING WHICH COULD CAUSE FIRE. VENTILATE AREA OF SPILL AND ADJACENT LOW LYING AREAS. AVOID BREATHING SOLVENT VAPORS. REMOVE WITH INERT ABSORBANT MATERIALS AND NON-SPARKING TOOLS.

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

Handling and Storage Precautions:WASH HANDS THOROUGHLY AFTER HANDLING.

STORE IN COOL DRY AREA WITH VENTILATION SUITABLE FOR STORING MATERIALS LISTED IN INGREDIENTS SECTION. KEEP AWAY FROM HEAT, SPARKS, FLAME. STORE IN A COOL PLACE AW AY FROM DIRECT SUNLIGHT OR SOURCE OF IGNITION. DO NOT STORE AT TEMPERATURES ABOVE 120F. (OTHER PREC)

Other Precautions:DO NOT USE/STORE NEAR SOURCES OF HEAT, SPARKS, OPEN FLAMES. DO NOT PUNCTURE OR INCINERATE. DO NOT CRUSH OR PLACE IN A GARBAGE COMPACTOR. KEEP AWAY FROM ANY SOURCE OF HEAT SUCH AS SUNLIGHT, HEATERS OR STOVE THAT COULD CAUSE THE CONTAINER TO BURST. AEROSOL CONTAINERS MAY EXPLODE WHEN EXPOSED TO EXTREM E HEAT.

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

Respiratory Protection:IF WORKPLACE EXPOSURE LIMITS ARE EXCEEDED FOR ANY COMPONENT (REFER TO INGREDIENT SECTION, TOXICOLOGICAL AND OTHER INFORMATION FOR HAZARDOUS COMPONENTS & EXPOSURE LIMITS), A NIOSH/OSHA APPROVED RESPIRA TOR SUITABLE FOR COMPONENTS LISTED IS RECOMMENDED.

Ventilation:SUFFICIENT VENTILATION IN VOLUME AND PATTERN, SHOULD BE PROVIDED TO KEEP AIR CONTAMINATION BELOW CURRENT (SUPPL SAFETY)

Protective Gloves:CHEMICAL RESISTANT PLASTIC OR RUBBER FOR PROLONGED/REPEATED CONTACT.

Eye Protection:ANSI APPROVED CHEMICAL GOGGLES WITH SIDE SHIELDS OR FACE SHIELD.

Other Protective Equipment:EYE WASH AND DELUGE SHOWER MEETING ANSI DESIGN CRITERIA . APPROPRIATE IMPERVIOUS CLOTHING RECOMMENDED IF PROLONGED OR REPEATED CONTACT IS LIKELY.

Work Hygienic Practices:WASH HANDS BEFORE EATING OR SMOKING. SMOKE IN DESIGNATED AREAS ONLY.

Supplemental Safety and Health

VENTILATION (CONT'D): APPLICABLE OSHA PERMISSIBLE EXPOSURE LIMIT/ACGIH'S TLV LIMIT. PHYSICAL/CHEMICAL PROPERTIES (CONT'D): FORMULA WEIGHT PER VOLUME: 6.47550 LB/GL. VOC (CALCULATED, LG/GL): 4.5260. VO C PERCENT BY WT: 42.896. PRODUCT CLASS: AEROSOL TOUCH-UP. HMIS: HEALTH-2, FLAMM-4, REACTIVITY-0, PERSONAL PROTECTION-G.

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

Boiling Pt:=-17.2C, 1.F  
B.P. Text:LOW=1.00-HIGH=464.00F  
Vapor Pres:5585.200 MM HG @ 20C  
Spec Gravity:.7780  
VOC Grams/Liter:4.53  
Evaporation Rate & Reference:7.7000(N-BUTYL ACETATE=1)  
Appearance and Odor:AEROSOL, WHITE ACRYLIC LACQUER. ODOR: NONE SPECIFIED BY MFR .

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

Stability Indicator/Materials to Avoid:YES  
STRONG OXIDIZING AGENTS.  
Stability Condition to Avoid:THE PRODUCT IS STABLE UNDER NORMAL STORAGE CONDITIONS. AVOID CONTACT WITH HEAT, SPARKS, AND OPEN FLAME. PRODUCT MAY EXPLODE IF HEATED. KEEP COOL, AVOID EXPOSURE TO HEAT.  
Hazardous Decomposition Products:THERMAL DECOMPOSITION MAY PRODUCE CARBON DIOXIDE, CARBON MONOXIDE, AND UNIDENTIFIABLE ORGANIC MATERIALS.

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

Toxicological Information:SIGNS/SYMPTOMS (CONT'D): A COMPONENT OR COMPONENTS IN THIS MATERIAL HAS BEEN FOUND TO CAUSE THE FOLLOWING EFFECTS IN LABORATORY ANIMALS: KIDNEY, EYE, LUNG, LIVER, SPLEEN AND

BRAIN DAMAGE. ANEMIA. CHRONIC OVEREXPOSURE TO A COMPONENT HAS BEEN SUGGESTED AS A CAUSE OF THE FOLLOWING EFFECTS IN HUMANS: LIVER DAMAGE, CARDIAC ABNORMALITIES. REPORTS HAVE ASSOCIATED REPEATED/PROLONGED OVEREXPOSURE TO SOLVENTS WITH PERMANENT BRAIN AND NERVOUS SYSTEM DAMAGE. REPEATED BREATHING OR SKIN CONTACT OF METHYL ETHYL KETONE MAY INCREASE POTENCY OF NEUROTOXINS SUCH AS HEXANE IF EXPOSURES OCCUR AT THE SAME TIME. CONTAINS BUTYL BENZYL (ECOLOGICAL INFO)

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

Ecological:NO SPECIFIC ECOLOGICAL INFORMATION IS AVAILABLE.  
TOXICOLOGICAL INFO (CONT'D): PHTHALATE WHICH HAS BEEN SHOWN TO CAUSE CANCER IN AT LEAST ONE LABORATORY ANIMAL STUDY. BUTYL BENZYL PHTHALATE IS NOT LISTED BY OSHA, IARC OR NTP AS A CARCINOGEN. RATS EXPOSED TO TITANIUM DIOXIDE DUST AT 250 MG/M3 DEVELOPED LUNG CANCER, HOWEVER, SUCH EXPOSURE LEVELS ARE NOT ATTAINABLE IN THE WORKPLACE WITH THIS MATERIAL. PRODUCT CONTAINS TOLUENE WHICH MAY BE HARMFUL TO THE FETUS BASED ON ANIMAL STUDIES. REPEATED EXPOSURE TO TOLUENE HAS BEEN ASSOCIATED WITH HIGH FREQUENCY HEARING LOSS IN LAB ANIMALS. THE HUMAN CONSEQUENCES OF THIS FINDING IS UNCERTAIN.

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

Waste Disposal Methods:PLACE IN CLOSED CONTAINERS. DISPOSE OF PRODUCT IN ACCORDANCE WITH LOCAL, COUNTY, STATE AND FEDERAL REGULATIONS.

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

Transport Information:DOMESTIC GROUND SHIPMENT OF PAINT AEROSOLS & ALL LIQUID PAINT PRODUCT IN CONTAINERS OF 1 QT OR LESS: CONSUMER COMMODITY, ORM-D. DOMESTIC AIR SHIP OF PAINT AEROSOLS & ALL LIQ PAINT IN CONTAINERS OF 1 Q T OR LESS: CONSUMER COMMODITY, CLASS 9, ID 8000, MISCELLANEOUS LABEL. INTERNATIONAL AIR SHIP OF PAINT AEROSOLS: AEROSOLS, FLAM, N.O.S. CLASS 2.1, UN 1950, FLAMMABLE GAS LABEL. ALL SHIP OF LIQ PAINT IN CONTAINERS OF MORE THAN 1 QUART: PAINT,CLASS 3, UN 1263, PACKING GROUP II, FLAM LIQ LABEL. SEE 49 CFR 172.101, HAZ MATL TABLE 1 FOR MORE INFO ON SHIPPING HAZARDOUS (OTHER INFO)

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

SARA Title III Information:SARA SECTION 313: THIS PRODUCT CONTAINS THE FOLLOWING SUBSTANCES SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF TITLE III OF THE SUPERFUND AMENDMENTS & REAUTHORIZATION ACT OF 1986 & 40 CFR PART 372: XYLENE, CAS# 1330-20-7, PCT BY: 1.3000. METHYL ETHYL KETONE, CAS# 78-93-3: PCT BY WT: 5.4600. TOLUENE, CAS# 108-88-3: PCT BY WT: 10.2690.

Federal Regulatory Information:TOXIC SUBSTANCES CONTROL ACT: THE CHEMICAL SUBSTANCES IN THIS PRODUCT ARE LISTED ON THE TSCA SECTION 8 INVENTORY. INTERNATIONAL REGULATIONS: CANADA: THE CHEMICAL SUBSTANCES IN THIS PRODUCT ARE LISTED ON THE CANADIAN DOMESTIC SUBSTANCES LIST.

State Regulatory Information:THIS PRODUCT CONTAINS CHEMICAL(S) WHICH ARE LISTED ON CALIFORNIA'S PROPOSITION 65 LIST. IF THE PRODUCT IS TO BE SOLD OR USED IN CALIFORNIA THE FOLLOWING WARNING STATEMENT MUST APPEAR ON THE LABEL: WARNING! THIS PRODUCT CONTAINS A CHEMICAL OR CHEMICALS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM.

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

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.