

MATERIAL SAFETY DATA SHEET

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Vendor Update: 1/5/2010
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MSDS Number: 3352133 ;

I. CHEMICAL PRODUCT IDENTIFICATION

Product Name: ACRYLIC CEMENT
HMIS Ratings:
 Health: Moderate(2)
 Flammability: Serious(3)
 Instability/Reactivity: Slight(1)

NFPA Ratings:
 Health: Moderate(2)
 Flammability: Serious(3)
 Instability/Reactivity: Slight(1)

Other: HEALTH
 ACUTE TOXICITY: CATEGORY 4
 SKIN IRRITATION: CATEGORY 3
 SKIN SENSITIZATION: NO
 EYE: CATEGORY 2A
 ENVIRONMENTAL
 ACUTE TOXICITY: NONE KNOWN.
 CHRONIC TOXICITY: NONE KNOWN.
 PHYSICAL
 FLAMMABLE: CATEGORY 2

II. COMPOSITION, INFORMATION ON INGREDIENTS

| Chemical Ingredients | C.A.S. Number | % By Weight | ACGIH TLV TWA/STEL | OSHA PEL TWA/STEL | Other TWA/STEL | LD50 | LC50 |
|---|--|-------------|--------------------|--------------------|----------------|---|---|
| METHYL CHLORIDE*(DICHLOROMETHANE) | 75-09-2 | 30 - 60 | 50 PPM | 25 PPM 125 | | ORAL: 1500-2500 MG/KG(RAT), DERMAL: NOT DETERMINED | INHALATION 7HRS. >10000 PPM (RAT) |
| Notes | EINECS# 200-838-9 REACH PRE-REGISTRATION# UNDER DEVELOPMENT. | | | | | | |
| METHYL ACETATE | 79-20-9 | 10 - 15 | 200 PPM 250 PPM | 25 PPM | | ORAL: >5000 MG/KG (ORAL/RABBIT) | INHALATION: 4HRS. 12000 PPM (RAT) |
| Notes | EINECS# 201-185-2 REACH PRE-REGISTRATION# UNDER DEVELOPMENT. | | | | | | |
| METHYL ETHYL KETONE(MEK) | 78-93-3 | 0 - 40 | 200 PPM 300 PPM | 200 PPM 300 PPM | | ORAL: 2737 MG/KG (RAT), DERMAL: 6480 MG/KG (RABBIT) | INHALATION 8 HRS. 23,500 MG/M3 (RAT) |
| Notes | EINECS# 201-159-0 REACH PRE-REGISTRATION# 05-2116297728-24-0000 | | | | | | |
| METHYL METHACRYLATE MONOMER*, STABILIZED | 80-62-6 | 0 - 1 | 50 PPM 100 PPM | 100 PPM | | ORAL: 7900 MG/KG(RAT), DERMAL: >35000 MG/KG * | INHALATION: 3 HRS. 7093 PPM (RAT) |
| Notes | *(RABBIT) EINECS# 201-297-1 | | | | | | |

REACH PRE-REGISTRATION# 05-2116297731-37-0000

III. HAZARDS IDENTIFICATION PRIMARY ROUTE OF ENTRY

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| Eyes: | MAY CAUSE MODERATE EYE IRRITATION WHICH MAY BE SLOW TO HEAL. MAY CAUSE SLIGHT CORNEAL INJURY. VAPOR MAY CAUSE MILD DISCOMFORT AND REDNESS. |
| Skin: | PROLONGED CONTACT MAY CAUSE SKIN BURNS. MAY CAUSE MORE SEVERE RESPONSE ON COVERED SKIN (UNDER CLOTHING AND GLOVES). |
| Ingestion: | LOW TOXICITY IF SMALL AMOUNT SWALLOWED, HOWEVER LARGER AMOUNTS MAY CAUSE INJURY. ASPIRATION INTO THE LUNGS MAY OCCUR DURING INGESTION OR VOMITING. |
| Inhalation: | EXCESSIVE OVEREXPOSURE MAY CAUSE IRRITATION TO NOSE AND THROAT. IN CONFINED AREAS, VAPOR CAN ACCUMULATE AND CAN CAUSE UNCONSCIOUSNESS. |
| Other: | LIKELY ROUTES OF EXPOSURE: INHALATION, EYE AND SKIN CONTACT. |

IV. FIRST AID MEASURES

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| Eyes: | FLUSH EYES IMMEDIATELY WITH PLENTY OF WATER FOR 15 MINUTES AND SEEK MEDICAL ADVICE IMMEDIATELY. |
| Skin: | WASH SKIN WITH SOAP AND WATER. IF IRRITATION DEVELOPS, GET MEDICAL ATTENTION. |
| Ingestion: | DO NOT INDUCE VOMITING. SEEK MEDICAL ADVICE IMMEDIATELY. |
| Inhalation: | REMOVE TO FRESH AIR. IF BREATHING IS STOPPED, GIVE ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN. SEEK MEDICAL ADVICE. |

V. FIRE FIGHTING MEASURES

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| Flash Point: | -10°C (14°F) (METHYL ACETATE) |
| Lower Flammability Limit: | 1.4% (MEK) |
| Upper Flammability Limit: | 22% (METHYLENE CHLORIDE) |
| Extinguishing Agents: | SUITABLE: WATER FOG OR FINE SPRAY, CARBON DIOXIDE, DRY CHEMICAL OR FOAM. UNSUITABLE: DRY CHEMICAL POWDER. |
| Unusual Fire or Explosion Hazards: | INHALATION AND DERMAL CONTACT. |
| Fire Fighting Procedures: | WEAR POSITIVE-PRESSURE SELF-CONTAINED BREATHING APPARATUS (SCBA) AND PROTECTIVE FIRE FIGHTING CLOTHING. |
| Other: | COMBUSTION PRODUCTS: HYDROGEN CHLORIDE, TRACE AMOUNTS OF CHLORINE, PHOSGENE. |

VI. ACCIDENTAL RELEASE MEASURES

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| Containment/Cleanup: | PERSONAL PRECAUTIONS: CLEAR ALL PERSONNEL FROM AREA. DO NOT BREATHE VAPORS. VENTILATE AREA OF LEAK OR SPILL. WEAR PROTECTIVE EQUIPMENT POSITIVE PRESSURE SELF CONTAINED OR AIR SUPPLIED BREATHING APPARATUS. FOLLOW CONFINED SPACE ENTRY PROCEDURES. |
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METHODS FOR CLEAN UP: MOP OR SOAK IMMEDIATELY. PLACE IN PROPERLY LABELED METAL CONTAINERS.

ENVIRONMENTAL PRECAUTIONS: PREVENT PRODUCT OR LIQUIDS CONTAMINATED WITH PRODUCT FROM ENTERING SEWERS, DRAINS, SOIL, OR OPEN WATER COURSE.

Other: MATERIALS NOT TO BE USED FOR CLEAN UP: ZINC, ALUMINUM OR PLASTIC CONTAINERS.

VII. HANDLING AND STORAGE

Other: HANDLING: AVOID BREATHING OF VAPOR, AVOID CONTACT WITH EYES, SKIN AND CLOTHING. DO NOT SWALLOW. USE WITH ADEQUATE VENTILATION. DO NOT CUT, DRILL, GRIND, WELD OR PERFORM SIMILAR OPERATIONS ON OR NEAR EMPTY CONTAINERS. VAPORS OF THIS PRODUCT ARE HEAVIER THAN AIR AND WILL COLLECT IN LOW AREAS. DO NOT EAT, DRINK OR SMOKE WHILE HANDLING.

STORAGE: STORE IN A DRY PLACE. KEEP CONTAINER TIGHTLY CLOSED WHEN NOT IN USE. SIGNIFICANT VAPOR (>5PSI) CAN BE GENERATED ABOVE 55°F. FOLLOW ALL PRECAUTIONARY INFORMATION ON CONTAINER LABEL, PRODUCT BULLETINS AND SOLVENT BONDING LITERATURE.

VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Eyes: USE CHEMICAL GOGGLES. IF EXPOSURE CAUSES EYE DISCOMFORT, USE A FULL-FACE RESPIRATOR.

Skin: PREVENT CONTACT WITH THE SKIN AS MUCH AS POSSIBLE. USE PROTECTIVE CLOTHING CHEMICALLY RESISTANT TO THIS MATERIAL. REMOVE CONTAMINATED CLOTHING IMMEDIATELY, WASH SKIN AREA WITH SOAP AND WATER AND LAUNDRY CLOTHING BEFORE REUSE OR DISPOSE OF PROPERLY.

Respiratory: PREVENT INHALATION OF THE SOLVENTS. USE IN A WELL-VENTILATED ROOM. OPEN DOORS AND/OR WINDOWS TO ENSURE AIRFLOW AND AIR CHANGES. USE LOCAL EXHAUST VENTILATION TO REMOVE AIRBORNE CONTAMINANTS FROM EMPLOYEE BREATHING ZONE AND TO KEEP CONTAMINANTS BELOW LEVELS LISTED ABOVE. WITH NORMAL USE, THE EXPOSURE LIMIT VALUE WILL NOT USUALLY BE REACHED. WHEN LIMITS APPROACHED, USE RESPIRATORY PROTECTION EQUIPMENT.

Engineering: PROVIDE GENERAL AND/OR LOCAL EXHAUST VENTILATION TO CONTROL AIRBORNE LEVELS BELOW THE EXPOSURE GUIDELINES. LETHAL CONCENTRATIONS MAY EXIST IN AREAS WITH POOR VENTILATION.

Other: MONITORING: MAINTAIN BREATHING ZONE AIRBORNE CONCENTRATIONS BELOW EXPOSURE LIMITS.

IX. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: CLEAR, MEDIUM SYRUPY LIQUID

Boiling Point: 39.8°C (104°F)*

Freezing Point: -99°C (-146°F) (METHYL ACETATE)

pH: NOT APPLICABLE

Solubility in Water: 32G/100G H₂O (METHYL ACETATE)

Specific Gravity: 1.08 @ 23°C (73.4°F)

Vapor Pressure: 355 MMHG @ 20°C (METHYL CHLORIDE)

Vapor Density: >2.0 (AIR = 1)

Volatile Content: VOC CONTENT: WHEN APPLIED AS DIRECTED, PER SCAQMD RULE 1168, TEST METHOD 316A, VOC CONTENT IS: <250 G/L.
VISCOSITY: MEDIUM BODIED.

Other: *BASED ON FIRST BOILING COMPONENT: METHYLENE CHLORIDE.
PARTITION COEFFICIENT N-OCTANOL/WATER: NOT AVAILABLE.
AUTOIGNITION: 454°C (849°F)(METHYL ACETATE)
DECOMPOSITION TEMPERATURE: NOT APPLICABLE.
EVAPORATION RATE: >1.0 (BUAC = 1)

X. STABILITY AND REACTIVITY

Stability: STABLE UNDER RECOMMENDED STORAGE CONDITIONS.

Hazardous Decomposition Products: DEPENDING ON TEMPERATURE AND AIR SUPPLY, MAY INCLUDE HYDROGEN CHLORIDE, TRACE AMOUNTS OF CHLORINE, PHOSGENE.

Incompatible Products: OXIDIZERS, STRONG BASES, AMINES, METALS SUCH AS ZINC POWDERS, ALUMINUM OR MAGNESIUM POWDERS, POTASSIUM SODIUM.

Conditions To Avoid: AVOID OPEN FLAMES, WELDING ARCS, OR OTHER HIGH TEMPERATURE SOURCES. AVOID DIRECT SUNLIGHT.

XI. TOXICOLOGICAL INFORMATION

Special Hazard Information: REPRODUCTIVE EFFECTS: NOT ESTABLISHED.
TERATOGENICITY: NOT ESTABLISHED.
MUTAGENICITY: NOT ESTABLISHED.
EMBRYOTOXICITY: NOT ESTABLISHED.
SENSITIZATION TO PRODUCT: NOT ESTABLISHED.
SYNERGISTIC PRODUCTS: NOT ESTABLISHED.

Other: CHRONIC (LONG TERM) EFFECTS: IARC CLASSIFICATION 2B (METHYL CHLORIDE)

XII. ECOLOGICAL INFORMATION

Persistence and Degradation: MODERATELY BIODEGRADABLE.

Other: MOBILITY: IN NORMAL USE, EMISSION OF VOLATILE ORGANIC COMPOUNDS (VOC'S) TO THE AIR TAKES PLACE, TYPICALLY AT A RATE OF <250 G/L.
MOBILITY IN SOIL IS HIGH.
BIOACCUMULATION: LOW.

XIII. DISPOSAL CONSIDERATIONS

Disposal Method: FOLLOW LOCAL AND NATIONAL REGULATIONS. CONSULT DISPOSAL EXPERT.

XIV. TRANSPORT INFORMATION

Proper Shipping Name: ADHESIVES

Hazard Class Number and Description: 3

UN Identification Number: UN1133

Packing Group: PG 11

DOT Label(s) Required: CLASS 3 FLAMMABLE LIQUID

Marine Pollutant: NO

Other: EXCEPTION FOR GROUND SHIPPING:
DOT LIMITED QUANTITY: UP TO 5L PER INNER PACKAGING, 30 KG GROSS WEIGHT PER PACKAGE.

CONSUMER COMMODITY: DEPENDING ON PACKAGING, THESE QUANTITIES MAY QUALIFY UNDER DOT AS "ORM-D".

TDG INFORMATION:

TDG CLASS: FLAMMABLE LIQUID 3

SHIPPING NAME: ADHESIVES

UN NUMBER/PACKING GROUP: UN 1133, PG11

XV. REGULATORY INFORMATION

TSCA Status: ALL OF THE CONSTITUENTS OF THIS ADHESIVE PRODUCT ARE LISTED ON THE TSCA INVENTORY OF CHEMICAL SUBSTANCES MAINTAINED BY THE US EPA, OR ARE EXEMPT FROM THAT LISTING.

EPA Sara Title III Chemical Listings: *INDICATES THIS CHEMICAL IS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF THE EMERGENCY PLANNING AND COMMUNITY RIGHT-TO-KNOW ACT OF 1986 (40CFR372).

Chemical METHYL CHLORIDE*(DICHLOROMETHANE): CAS# 75-09-2; %Wt: 30 - 60.

Chemical METHYL METHACRYLATE MONOMER*, STABILIZED: CAS# 80-62-6; %Wt: 0 - 1.

Other: WHMIS CLASSIFICATION: CLASS B, DIVISION 2; CLASS D, DIVISION 1
 PRECAUTIONARY LABEL INFORMATION: FLAMMABLE, HARMFUL, SUSPECTED CARCINOGEN
 INGREDIENT LISTINGS: USA TSCA, EUROPE EINECS, CANADA DSL, AUSTRALIA, AICS, KOREA ECL/TCCL, JAPAN MITI (ENCS), CA PROP 65.
 SYMBOLS: F, XN
 RISK PHRASES:
 R11: HIGHLY FLAMMABLE.
 R23/34/35: TOXIC BY INHALATION, IN CONTACT WITH SKIN AND SWALLOWED.
 R36/37: IRRITATING TO EYES AND RESPIRATORY SYSTEM.
 R40: POSSIBLE RISKS OF IRREVERSIBLE EFFECTS.
 R66: REPEATED EXPOSURE MAY CAUSE SKIN DRYNESS OR CRACKING.
 R67: VAPORS MAY CAUSE DROWSINESS AND DIZZINESS.
 SAFETY PHRASES:
 S2: KEEP OUT OF THE REACH OF CHILDREN.
 S7: KEEP CONTAINER TIGHTLY CLOSED WHEN NOT IN USE.
 S9: KEEP CONTAINER IN A WELL-VENTILATED PLACE.
 S16: KEEP AWAY FROM SOURCES OF IGNITION. NO SMOKING.
 S23/24/25: AVOID BREATHING VAPORS, CONTACT WITH SKIN AND EYES.
 S26: IN CASE OF CONTACT WITH EYES, RINSE IMMEDIATELY WITH PLENTY OF WATER AND SEEK MEDICAL ADVICE.
 S29: DO NOT EMPTY INTO DRAINS.
 S33: TAKE PRECAUTIONARY MEASURES AGAINST STATIC DISCHARGES.
 S51: USE ONLY IN WELL VENTILATED AREAS.
 HAZARD STATEMENTS
 H225: HIGHLY FLAMMABLE LIQUID AND VAPOUR
 H319: CAUSES SERIOUS EYE IRRITATION
 H320: CAUSES EYE IRRITATION.
 H335: MAY CAUSE RESPIRATORY IRRITATION.
 H336: MAY CAUSE DROWSINESS OR DIZZINESS.
 H351: SUSPECTED OF CAUSING CANCER.
 PRECAUTIONARY STATEMENTS
 P210: KEEP AWAY FROM HEAT/SPARKS/OPEN FLAMES/HOT SURFACES—NO SMOKING
 P261: AVOID BREATHING DUST/FUME/GAS/MIST/VAPORS/SPRAY
 P280: WEAR PROTECTIVE GLOVES/PROTECTIVE CLOTHING/EYE PROTECTION/FACE PROTECTION
 P337+P313: GET MEDICAL ADVICE/ATTENTION
 P403+P233: STORE IN A WELL VENTILATED PLACE. KEEP CONTAINER TIGHTLY CLOSED
 P501: DISPOSE OF CONTENTS/CONTAINER IN ACCORDANCE WITH LOCAL REGULATION

XVI. OTHER INFORMATION

WARRANTY INFORMATION

THIS INFORMATION IS OFFERED IN GOOD FAITH AS TYPICAL VALUES AND NOT AS A PRODUCT SPECIFICATION. NO WARRANTY, EXPRESSED OR IMPLIED, IS HEREBY MADE. THE RECOMMENDED INDUSTRIAL HYGIENE AND SAFE HANDLING PROCEDURES ARE BELIEVED TO BE GENERALLY APPLICABLE. HOWEVER, EACH USER SHOULD REVIEW THESE RECOMMENDATIONS IN THE SPECIFIC CONTEXT OF THE INTENDED USE AND DETERMINE WHETHER THEY ARE APPROPRIATE.