COE ADHESIVE
MATERIAL SAFETY DATA SHEET

SECTION 1 - SOURCE/IDENTITY/USE INFORMATION

MANUFACTURER
GC AMERICA INC.
3737 West 127th St.
Alsip Illinois, 60803
Telephone: 708-597-0900
Hours Mon.-Fri: 8:00 a.m.-5:00 p.m. C.S.T.
Transportation Emergency No. 800-424-9300

COMMON NAME: COE ADHESIVE
CHEMICAL NAME: N.A.
PRODUCT USE: Tray Adhesive for Polysulfide impression material

The following information is provided with regard to the toxicity and hazards of the pure components present.

SECTION 2 - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

COMPONENT	C.A.S.	EXPOSURE LIMITS	LD50/LC50	%
Acetone	67-64-1	TWA=750ppm (ACGIH) STEL=100ppm (ACGIH)	LD50=9.75g/kg (oral rat) LC50=64000 ppm/4hr. (mouse)	40-50
Toluene	108-88-3	TWA=100ppm STEL=150ppm (OSHA)	LD50=2.5 g/kg (oral rat) LC50=8000 ppm/4hr (mouse)	10-20
Methyl Ethyl Ketone	78-93-3	TWA=200ppm (ACGIH) STEL=300ppm (ACGIH)	LD50=7ml/kg (oral rat) LC50=13600ppm/2hr (mouse)	10-20
Acrylonitrite Butadiene Polymer	900-318-3	N.E.	N.E.	10-20
Phenol-Formaldehyde Polymer	9003-35-4	N.E.	N.E.	1-10
Glycerol Esters of Rosin Acids	8050-31-5	N.E.	N.E.	1-10
Salicylic Acid	69-72-7	PEL=15mg/m³ (OSHA) TWA=15mg/m³ (OSHA) 5mg/m³ (respirable)	LD50=891mg/kg LC50=N.E.	1-10
Zinc Oxide		TWA=10mg/m³ (ACGIH)(as dust) TWA=5mg/m³ (ACGIH)(as fume) STEL=10mg/m³ (ACGIH)(as fume)	LD50=7.9g/kg (oral rat) LC50=N.E.	1-10
Alkylated Diphenylamines	37338-62-8	N.E.	N.E.	<1

SECTION 3 - PHYSICAL/CHEMICAL PROPERTIES

BOILING POINT: 56°C
VAPOR PRESSURE: 180
VAPOR DENSITY: 2.0
SOLUBILITY IN WATER: Slight
COEFFICIENT OF OIL/WATER DISTRIBUTION: N.E.
SPECIFIC GRAVITY (H2O=1): 0.88
MELTING POINT: N.E.
EVAPORATION RATE (Butyl Acetate=1.0): 1.9
ODOR THRESHOLD: 200 ppm as acetone
APPEARANCE AND ODOR: Brown liquid - Strong ketone odor

SECTION 4 - FIRE AND EXPLOSION DATA

FLASH POINT: 17.8°C
FLAMMABLE LIMITS: LEL=1.27 UEL=12.8
EXTINGUISHING MEDIA: Carbon dioxide, alcohol foam, dry chemical
SPECIAL FIRE FIGHTING PROCEDURES: Use self-contained breathing apparatus
UNUSUAL FIRE AND EXPLOSION HAZARDS: Extremely flammable. If overheated, closed containers adjacent to fire could explode due to internal pressure buildup. Toluene vapors are heavier than air and may flash back.
HAZARDOUS COMBUSTION PRODUCTS: Thermal decomposition may produce formaldehyde and Nitrogen decomposition products including the possibility of HCN.

SECTION 5 - REACTIVITY DATA

STABILITY: **Stable** ☒ **Unstable** ☐
POLYMERIZATION: **Will Not Occur** ☒ **Will Occur** ☐
CONDITIONS TO AVOID: High heat
INCOMPATIBILITY (Materials to Avoid): N.E.
HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: None known

SECTION 6 - HEALTH HAZARD DATA and FIRST AID INFORMATION

	YES	NO	NE	NA	NTP	IARC	OSHA	OTHER
MUTAGENIC AFFECTS	X					X		
TERATOGENIC AFFECTS		X						
REPRODUCTIVE TOXIN	X					X		
CARCINOGENICITY		X						Calif. Prop 65
SENSITIZER								

ROUTES OF ENTRY: **Inhalation** ☒ **Skin** ☒ **Ingestion** ☒

HEALTH HAZARD (Acute and Chronic): Contact with liquid or overexposure to vapors is irritating to the eyes. Prolonged or repeated skin contact will defat the skin and cause irritation and possible dermatitis. Vapor inhalation may cause respiratory irritation and temporary nervous system impairment (light headedness). Ingestion may cause digestive system irritation and nervous system impairment. Mutation references cited, animal reproductive affects cited.

CALIFORNIA PROP 65 WARNING: This product contains toluene, a chemical known to the State of California to cause birth defects or other reproductive harm.

SIGNS AND SYMPTOMS OF OVEREXPOSURE: Redness, smarting, tearing and swelling of the eyes. Skin may dry and crack. Symptoms of over inhalation include dizziness, headache, nausea and fatigue. Repeated or extreme overexposure to vapors may cause heart, liver, kidney, blood and nervous system damage. Ingestion may cause vomiting and diarrhea. Solvent aspiration into the lung due to vomiting may cause lung damage, which can be harmful or fatal.

CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: Exposure to Acetone may enhance the liver toxicity of chlorinated solvents.

EMERGENCY FIRST AID PROCEDURES:

INGESTION: Do not induce vomiting. Immediately call a physician or poison control center.

INHALATION: For over inhalation, move to fresh air. If breathing is difficult, seek medical attention.

SKIN: Wash skin with soap and water. If irritation develops, seek medical attention.

EYES: Flush eyes with water for 10 minutes. Seek medical attention.

SECTION 7 - PRECAUTIONS FOR SAFE HANDLING AND USE

IN CASE OF RELEASE OR SPILL: Extinguish all ignition sources. Ventilate the area. Contain the spill. Cover with absorbent materials as needed. Collect the spill using non-sparking tools. Place in a U.S. Department of Transportation approved metal container and seal.

WASTE DISPOSAL METHOD: Incinerate absorbed and bulk product after mixing with flammable material in a licensed hazardous waste facility. Disposal should be in accordance with applicable regulations: US Hazardous Waste No D001 (ignitable)

STORAGE, HANDLING, AND SPECIAL PRECAUTIONS: Store in a cool place. away from heat source and direct sunlight.

SECTION 8 - CONTROL MEASURES

RESPIRATORY PROTECTION: Reduce exposure in accordance with safe hygiene practice. If exposure limits are exceeded, use an MSHA-NIOSH approved respirator for organic vapors.

VENTILATION: **Local Exhaust:** As needed **Mechanical:** N.A. **Special:** N.A. **Other:** N.A.

PROTECTIVE GLOVES: Use disposable gloves

EYE PROTECTION: Face shield or goggles

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Maintain eye wash station

WORK/HYGIENIC PRACTICE: Follow safe hygiene practices. Avoid contact with clothing. May stain. Follow recommended procedures to avoid overexposure.

SECTION 9 - PREPARATION INFORMATION

This data is supplied to comply with OSHA Hazard Communication Standard 29 CFR 1910,1200 and W.H.M.I.S. CPR

DATE: 09 January 2006

REVIEWED: 15 January 2009

N.A. = NOT APPLICABLE
N.E. = NOT ESTABLISHED

The information herein is given in good faith but no warranty expressed or implied is made.

NFPA

FIRE – 4 **TOXICITY – 2** **REACTIVITY – 1** **SPECIAL –**