

C.L. SMITH INDUSTRIAL CO.

2972 ARNOLD TENBROOK ROAD, ARNOLD MO 63010 ** PHONE: 636-296-1036 FAX: 636-296-0944

MATERIAL SAFETY DATA SHEET

Complies with OSHA Hazard Communication Standard 29 CFR 1910, 1200

Date of Preparation: 1/1/07 HEALTH - 2 FLAMMABILITY - 1 REACTIVITY - 0 OTHER - NONE

SECTION 1 - MATERIAL IDENTIFICATION

PRODUCT NAME: CLS 404 (PART A)

PRODUCT APPEARANCE: Olive Colored Paste with Sweet Odor

CHEMICAL NAME: Epoxy Resin

DOT HAZARD CLASSIFICATION: NONE

EMERGENCY TELEPHONE NUMBERS:

1-800-535-5053 --- INFOTRAC

1-636-296-1036 --- C.L. SMITH INDUSTRIAL

SECTION 2 - HAZARDOUS INGREDIENTS

OCCUPATIONAL EXPOSURE LIMITS

<u>INGREDIENT</u>	<u>CAS #</u>	<u>PEL/TLV-TWA</u>	<u>STEL-TWA</u>
Bisphenol A Epoxy Resin	25058-99-8	N/E	N/E

N/E - Not Established

T/S - Trade Secret

S - Skin

Listed above are the hazardous component(s) as defined in 40 CFR 172 and 29 CFR 1010 which are present in this product and all components which appear on the hazardous substance list of any state

SECTION 3 - PHYSICAL/CHEMICAL CHARACTERISTICS

The following data represents approximate or typical values. They do not constitute product specifications.

BOILING RANGE: N/A

MELTING POINT: N/D

DENSITY: 1.16

PERCENT VOLATILE: N/D

VAPOR DENSITY (AIR=1): > 1

VAPOR PRESSURE (mm Hg): < 1

EVAPORATION RATE: N/D

WATER MISCIBILITY: SLIGHT

SECTION 4 - FIRE AND EXPLOSION DATA

FLASH POINT: < 200 F

LOWER FLAMMABILITY LIMIT: N/A

TEST METHOD: SETAFLASH CLOSED CUP

UPPER FLAMMABLE LIMIT: N/A

RECOMMENDED EXTINGUISHING MEDIA:

WATER, FOAM, CARBON DIOXIDE, DRY CHEMICALS OR FOG.

SPECIAL FIRE FIGHTING PROCEDURES:

FIREFIGHTERS SHOULD WEAR PROTECTIVE GOGGLES AND SELF CONTAINED BREATHING APPARATUS TO AVOID INHALATION OF SMOKE OR VAPORS. REMOVE ALL IGNITION SOURCES.

UNUSUAL FIRE OR EXPLOSION HAZARDS (CONDITIONS TO AVOID):

NO UNUSUAL HAZARDS.

SECTION 5 - REACTIVITY DATA

STABILITY: STABLE

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR.

INCOMPATIBILITY: Strong oxidizers, acids and bases, and amine mixtures especially when hot.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon Monoxide, Carbon Dioxide, Aldehydes, Acids and Phenolics.

CONDITIONS TO AVOID: High heat, amines, strong oxidizers acids and bases.

SECTION 6 - HEALTH HAZARD DATA**EFFECTS OF OVEREXPOSURE:**

INHALATION: May cause nasal irritation, central nervous system depression or lung injury.

EYE CONTACT: Mild or moderate irritation, possible minor temporary cornea injury.

SKIN CONTACT: May cause skin irritation on prolonged or repeated exposure.

SKIN ABSORPTION: Not considered toxic.

PERMISSIBLE EXPOSURE LEVEL: None assigned

CHRONIC EFFECTS OF OVEREXPOSURE: None

EMERGENCY & FIRST AID PROCEDURES:

EYES: Flush with plenty of water and get medical attention. Keep eye lids apart. Wash within 1 minute of contact for maximum results.

SKIN: Promptly wipe clean with paper or cloths and wash with soap and water. Remove contaminated clothing before reuse.

Attention should be paid to hair, nose and eyes.

INHALATION: In case of exposure to high concentration of vapor or mist, remove person to fresh air.

INGESTION: If large amounts are swallowed, induce vomiting. Seek medical attention. May cause burns to mouth and throat.

PRIMARY ROUTES OF ENTRY: Inhalation. Ingestion. Skin and Eye contact.

CARCINOGENITY: This product does not contain 0.1% or more of any substance which is listed as a carcinogen by NTP, IARC or OSHA.

SECTION 7 - SPILL OR LEAK PROCEDURES**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:**

Ventilate area. Absorb spill with suitable absorbent material and place into a closed container.

Prevent material from entering waterways. Wear protective equipment during cleanup. Use eye and skin protection

WASTE DISPOSAL METHOD:

Incinerate or use biological treatment in accordance with federal, state and local regulations.

For further information, contact: EPA - RCRA HOTLINE (1-800-424-9346).

SECTION 8 - SPECIAL PROTECTION INFORMATION**RESPIRATORY PROTECTION:**

Should be worn to avoid breathing spray mist, heated vapors or if TLV is exceeded. Acid vapor type.

VENTILATION:

Local exhaust and general ventilation recommended.

PROTECTIVE GLOVES:

Impervious gloves. Apply barrier cream before exposure. Do not apply cream after exposure.

EYE PROTECTION:

Chemical splash goggles.

OTHER PROTECTIVE EQUIPMENT:

As required to prevent wetting of skin and clothing.

SECTION 9 - SPECIAL PRECAUTIONS**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:**

This material may cause sensitization. Do not get in eyes, on skin or clothing. Do not allow clothing to contact skin. Avoid contact with vapors or fumes.

SPECIAL PRECAUTIONS:

Avoid contact with skin and eyes. Avoid breathing vapor. Keep container closed when not in use. Avoid prolonged exposure to light.

Store at temperatures below 120 F. Remove all contaminated clothing, shoes, belts, and other leather goods immediately.

Solvents should not be used to clean skin because of increased penetration potential. Wash contaminated clothing before reuse.

SECTION 10 - SUPPLEMENTAL INFORMATION

REGULATORY INFORMATION: N/A

SARA HAZARD CLASSIFICATION: SARA Title III Regulations (40 CFR 370): Acute

SARA SECTION 313 LISTED INGREDIENTS:

This material does not contain any substance which is subject to the reporting requirements of 40 CFR 372.

DOT PROPER SHIPPING NAME:

N/A

JN NUMBER: N/A

This information is furnished without warranty, representation, inducement or license of any kind, except that it is accurate to the best of C.L. SMITH IND knowledge, or obtained from sources believed by C.L. SMITH IND to be accurate, and C.L. SMITH IND does not assure any legal responsibility for use, reliance upon the same. Customer are encouraged to conduct their own tests before using any product, read its label.

C.L. SMITH INDUSTRIAL CO.

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MATERIAL SAFETY DATA SHEET

Complies with OSHA Hazard Communication Standard 29 CFR 1910, 1200

Date of Preparation: 1/1/07 HEALTH · 3 FLAMMABILITY · 1 REACTIVITY · 0 OTHER · CORROSIVE

SECTION 1 - MATERIAL IDENTIFICATION

PRODUCT NAME: CLS 404 (PART B)

PRODUCT APPEARANCE: Tan Colored Paste with Characteristic Odor.

CHEMICAL NAME: Aromatic Diamine Mixture

EMERGENCY TELEPHONE NUMBERS:

DOT HAZARD CLASSIFICATION: CORROSIVE LIQUID N.O.S.

1-800-535-5053 --- INFOTRAC

1-636-296-1036 --- C.L. SMITH INDUSTRIAL

SECTION 2 - HAZARDOUS INGREDIENTS

OCCUPATIONAL EXPOSURE LIMITS

INGREDIENT	CAS #	PEL/TLV-TWA	STEL-TWA
DIAMINODIPHENLYMETHANE	101-77-9	.01 ppm (S) 10 ppb.	N/E
MODIFIED ALIPHATIC POLYAMINE	T/S	N/E	N/E
DIETHYLENETRIAMINE	111-40-0	1 ppm ACGIH (S)	N/E

N/E - Not Established

T/S - Trade Secret

S - Skin

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SECTION 3 - PHYSICAL/CHEMICAL CHARACTERISTICS

The following data represents approximate or typical values. They do not constitute product specifications.

BOILING RANGE: N/D

VAPOR DENSITY (AIR=1): 1

MELTING POINT: N/A

VAPOR PRESSURE (mm Hg): N/D

DENSITY: 1.12

EVAPORATION RATE: N/A

PERCENT VOLATILE: LOW

WATER MISCIBILITY: MODERATE

SECTION 4 - FIRE AND EXPLOSION DATA

FLASH POINT: 453 F

TEST METHOD: SETAFLASH CLOSED CUP

LOWER FLAMMABILITY LIMIT: N/A

UPPER FLAMMABLE LIMIT: N/A

RECOMMENDED EXTINGUISHING MEDIA:

WATER, FOAM, CARBON DIOXIDE, DRY CHEMICALS OR FOG.

SPECIAL FIRE FIGHTING PROCEDURES:

FIREFIGHTERS SHOULD WEAR PROTECTIVE GOGGLES AND SELF CONTAINED BREATHING APPARATUS TO AVOID INHALATION OF SMOKE OR VAPORS. REMOVE ALL IGNITION SOURCES.

UNUSUAL FIRE OR EXPLOSION HAZARDS (CONDITIONS TO AVOID):

MAY PRODUCE HAZARDOUS FUMES OR HAZARDOUS DECOMPOSITION PRODUCTS.

SECTION 5 - REACTIVITY DATA

STABILITY: STABLE

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR.

INCOMPATIBILITY: Strong oxidizers, epoxy resin, and amine mixtures especially when hot.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon Monoxide, Carbon Dioxide and Ammonia.

CONDITIONS TO AVOID: Heat and warm storage.

SECTION 6 - HEALTH HAZARD DATA**EFFECTS OF OVEREXPOSURE:**

INHALATION: May cause irritation to upper respiratory tract. Avoid prolonged or repeated inhalation.

EYE CONTACT: May cause eye irritation on prolonged or repeated exposure.

SKIN CONTACT: May cause skin irritation on prolonged or repeated exposure.

INGESTION: Do not take internally. May cause burns of mouth and throat.

CHRONIC EFFECTS OF OVEREXPOSURE: Possible allergic skin reaction.

EMERGENCY & FIRST AID PROCEDURES:

EYES: Flush with plenty of water and get medical attention. Keep eye lids apart. Wash within 1 minute of contact for maximum results.

SKIN: Promptly wipe clean with paper or cloths and wash with soap and water. Remove contaminated clothing before reuse.

Attention should be paid to hair, nose and eyes.

INHALATION: In case of exposure to high concentration of vapor or mist, remove person to fresh air.

INGESTION: If large amounts are swallowed, induce vomiting. Seek medical attention. May cause burns to mouth and throat.

PRIMARY ROUTES OF ENTRY: Inhalation. Ingestion. Skin and Eye contact.

CARCINOGENITY: This product does not contain 0.1% or more of any substance which is listed as a carcinogen by NTP, IARC or OSHA.

SECTION 7 - SPILL OR LEAK PROCEDURES**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:**

Ventilate area. Absorb spill with suitable absorbent material and place into a closed container.

Prevent material from entering waterways. Wear protective equipment during cleanup. Use eye and skin protection

WASTE DISPOSAL METHOD:

Incinerate or use biological treatment in accordance with federal, state and local regulations.

For further information, contact: EPA - RCRA HOTLINE (1-800-424-9346).

SECTION 8 - SPECIAL PROTECTION INFORMATION**RESPIRATORY PROTECTION:**

Should be worn to avoid breathing spray mist, heated vapors or if TLV is exceeded. Acid vapor type.

VENTILATION:

Local exhaust and general ventilation recommended.

PROTECTIVE GLOVES:

Impervious gloves. Apply barrier cream before exposure. Do not apply cream after exposure.

EYE PROTECTION:

Chemical splash goggles.

OTHER PROTECTIVE EQUIPMENT:

As required to prevent wetting of skin and clothing.

SECTION 9 - SPECIAL PRECAUTIONS**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:**

This material may cause sensitization. Do not get in eyes, on skin or clothing. Do not allow clothing to contact skin. Avoid contact with vapors or fumes.

SPECIAL PRECAUTIONS:

Avoid contact with skin and eyes. Avoid breathing vapor. Keep container closed when not in use. Avoid prolonged exposure to light.

Store at temperatures below 120 F. Remove all contaminated clothing, shoes, belts, and other leather goods immediately.

Solvents should not be used to clean skin because of increased penetration potential. Wash contaminated clothing before reuse.

SECTION 10 - SUPPLEMENTAL INFORMATION

REGULATORY INFORMATION: CORROSIVE

SARA HAZARD CLASSIFICATION: SARA Title III Regulations (40 CFR 370): ACUTE

SARA SECTION 313 LISTED INGREDIENTS:

This material does not contain any substance which is subject to the reporting requirements of 40 CFR 372.

DOT PROPER SHIPPING NAME:

CORROSIVE LIQUID N.O.S.

UN NUMBER: UN 1760