

**MATERIAL
SAFETY
DATA SHEET**

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SECTION I - PRODUCT IDENTIFICATION

PRODUCT NAME: AMALGAMBOND ADHESIVE AGENT **STOCK NO:** S374
DOT HAZARD LABEL: None **UN NUMBER:** None
PROPER SHIPPING NAME: None **DATE PREPARED:** 01/03/06
NFPA CODES: HEALTH - 2 FLAMMABILITY - 0 REACTIVITY - 1

SECTION II - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

| <u>HAZARDOUS COMPONENTS</u> | <u>CAS NUMBER</u> | <u>PEL</u> | <u>TLV</u> | <u>%</u> |
|-----------------------------|-------------------|---------------------|---------------------|----------|
| HEMA | 868-77-9 | NE | NE | |
| MEHQ | 150-76-5 | 5 mg/m ³ | 5 mg/m ³ | .025% |

SECTION III - PHYSICAL & CHEMICAL CHARACTERISTICS

BOILING POINT: NE **SPECIFIC GRAVITY (H₂O = 1):** 1.074
VAPOR PRESSURE: 0.1 mm HG **PERCENT VOLATILES:** <1%
VAPOR DENSITY (Air = 1): >1 **EVAPORATION RATE (Butyl Acetate = 1):** >1
APPEARANCE AND ODOR: Clear, water white liquid. Mild and pleasant odor.

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (TCC): >300°C **FLAMMABLE LIMIT (air, % by vol.)** UPPER: NA LOWER: NA

EXTINGUISHER MEDIA: Chemical foam, carbon dioxide, dry chemical.

SPECIAL FIRE FIGHTING PROCEDURES: Wear self contained breathing apparatus, and full protective gear. Use water spray to cool containers. Fight fire from protected location.

UNUSUAL FIRE & EXPLOSION HAZARDS: Vapors may travel to source of ignition and flash back. Heat can cause polymerization with rapid release of energy which may rupture container explosively. (Spontaneous polymerization may occur on prolonged storage.)

SECTION V - REACTIVITY DATA (PHYSICAL HAZARDS)

STABILITY: STABLE UNSTABLE

CONDITIONS TO AVOID: Heat and sources of ignition, aging and contamination.

INCOMPATIBILITY (Materials to avoid): Reducing and oxidizing agents and UV light.

HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of carbon.

HAZARDOUS POLYMERIZATION: MAY OCCUR WILL NOT OCCUR

CONDITIONS TO AVOID: Temperatures above 40° C, oxidizing or reducing agents, peroxides, amines.

MATERIAL SAFETY DATA SHEET (continued)

PRODUCT NAME: AMALGAMBOND ADHESIVE AGENT STOCK NO: S374

SECTION VI - HEALTH HAZARD DATA

PRIMARY ROUTE(S) OF ENTRY: EYES SKIN INHALATION INGESTION

HEALTH HAZARDS (Acute & Chronic): Liquid or high vapor concentration can irritate eyes and respiratory system and cause skin rashes. Prolonged exposure can lead to headaches, nausea, drowsiness and unconsciousness.

SIGNS & SYMPTOMS OF EXPOSURE: See above.

CARCINOGENECITY: NTP? IARC MONOGRAPHS? OSHA?

EMERGENCY AND FIRST AID PROCEDURES:

INHALATION: Remove to fresh air. Get medical help if discomfort persists.

EYES: Flush with water for 15 minutes, including under eyelids.

SKIN: Wash with soap and water.

INGESTION: Induce vomiting. Obtain immediate medical attention.

SECTION VII - SPECIAL PRECAUTIONS AND SPILL OR LEAK PROCEDURES

PRECAUTIONS TO BE TAKEN IN HANDLING & STORAGE: Store in cool dry place. Ground all metal containers when transferring. Use explosion proof equipment. Check inhibitor levels every three months.

OTHER PRECAUTIONS: NA

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Evacuate area. Eliminate sources of ignition. Use self-contained breathing apparatus and protective clothing. Dike and absorb with inert material. Transfer to proper containers for disposal, use non-sparking tools. Keep spills out of sewers and open bodies of water.

WASTE DISPOSAL METHODS (Consult federal, state, and local regulations): Incinerate liquid and diking material after addition of excess inhibitor, in accordance with Federal, State, and Local regulations.

SECTION VII - SPECIAL PROTECTION INFORMATION/CONTROL MEASURES

RESPIRATORY PROTECTION: Use self-contained breathing apparatus when needed.

VENTILATION: Use local explosion-proof ventilation with a minimum capture velocity of 100 ft/min. (30 m/min.) at point of monomer release. Local exhaust ventilation is preferred since it prevents contamination dispersion into the work area by controlling it at its source.

PROTECTIVE GLOVES: Impervious, neoprene

EYE PROTECTION: Safety glasses or goggles.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Provide eyewash and safety shower.

WORK/HYGIENIC PRACTICES: Wash hands before eating, drinking or smoking.

The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances.