

----- MATERIAL SAFETY DATA SHEET -----

Midland Chicago

FAST SEAL 550, M12

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 DATE: 12/19/00
 SUPERSEDES: 2-4-00
 HAZARD RATINGS (0-4)

FIRE: 2
 TOXICITY: 1
 REACTIVITY: 0
 SPECIAL:

SUPPLIER: Midland Chicago Company
 5300 W. 127th Street, Alsip, IL 60803
 (708) 389-6600

FOR EMERGENCY CALL INFOTRAC: 1-800-535-5053
 BRAND: Magee
 TRADE NAME: Fast Seal 550
 PRODUCT TYPE: Oil based varnish
 CHEMICAL FORMULA: Mixture
 CHEMICAL NAME: Varnish

 COMPONENT LIST - SECTION I

COMPONENT	CAS REG. #	%	TLV OSHA	TLV ACGIH
Oil modified polyurethane resin	68410-53-7	30-40	N/A	N/A
Mineral spirits	8032-32-4	60-70	500 ppm	100 ppm
Driers	N/A	< 0.1	N/A	N/A

 This product contains no ingredients that are listed in the SARA III, Section 313 inventory.

 PHYSICAL PROPERTIES - SECTION II

APPEARANCE: Clear amber liquid with petroleum odor
 pH: N/A
 VISCOSITY: Zahn #2 15-19 sec.
 FREEZING POINT: None
 BOILING POINT: 305 deg F
 VAPOR PRESSURE: <10 mm Hg @ 77 deg F
 VAPOR DENSITY: > 1
 SOLUBILITY IN WATER: None
 VOLATILE (% WT): 60-70
 SPECIFIC GRAVITY: 0.86
 EVAPORATION RATE: < 0.2
 VOC'S: 550 grams/liter

 FIRE AND EXPLOSION HAZARD - SECTION III

FLASH POINT: C.C. 105 Setaflash
 AUTO IGNITION TEMP: 450-500
 LOWER EXPLOSION LIMIT: Approx. 1
 UPPER EXPLOSION LIMIT (%): Approx. 6
 EXTINGUISHING MEDIUM: Foam, CO2, dry chemical
 SPECIAL FIRE FIGHTING PROCEDURES: The use of self-contained breathing apparatus is recommended for fire fighters. Water may be unsuitable for extinguishing media, but helpful in keeping adjacent containers cool.
 UNUSUAL FIRE AND EXPLOSION HAZARDS: Vapors are heavier than air and may travel along ground and be ignited by heat, pilot light or other sources of ignition distant from point of use. Never use welding or cutting torches near containers even if empty. Rags or towels soaked with this product may spontaneously ignite; store them in a closed container.

 HEALTH HAZARDS - SECTION IV

THRESHOLD LIMIT VALUES: None established
 PRIMARY ROUTES OF EXPOSURE: Oral, inhalation
 CARCINOGENS OR SUSPECTED CARDINOGENIC INGREDIENTS: None

EFFECTS OF OVEREXPOSURE: Inhalation in areas of high vapor concentrations can cause breathing difficulties, dizziness or lightheadedness. Prolonged or repeated liquid contact with skin will dry and defat skin, leading to irritation or dermatitis. Eye irritant. Effects of ingestion may include headache, drowsiness, nausea, fatigue, pneumonitis, pulmonary edema.

EMERGENCY AND FIRST AID PROCEDURES:

IF IN EYES: Immediately flush eyes with clear water for at least 15 minutes, occasionally lifting lower and upper lids. Get medical attention as soon as possible.
 IF ON SKIN: Wash with soap and large quantities of water. Seek medical attention if irritation from contact persists. If clothing soaked, immediately remove. Launder before wearing.
 IF SWALLOWED: Do not induce vomiting. Get medical attention immediately.
 IF INHALED: If overcome by high concentrations of vapor, remove from exposure to fresh air. If breathing is irregular or has stopped, perform artificial respiration. Administer oxygen if available. Get medical attention immediately.

 REACTIVITY - SECTION V

STABLE

CONDITIONS TO AVOID: N/A
 HAZARDOUS DECOMPOSITION PRODUCTS: Fumes, smoke, carbon monoxide in case of incomplete combustion
 INCOMPATIBILITY (MATERIALS TO AVOID): Avoid contact with strong oxidants such as liquid chlorine, concentrated oxygen, sodium hypochlorite or calcium hypochlorite.

 SPILLS OR LEAK PROCEDURE - SECTION VI

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Shut off and eliminate all ignition sources. Keep people away. Recover free product. Add sand, earth or other absorbent material to spill area. Minimize breathing of vapors. Minimize skin contact. Ventilate confined spaces. open all windows and doors. Keep product out of sewers and waterways. Continue to observe precautions for combustible vapors from absorbed material.
 WASTE DISPOSAL METHODS: contaminated absorbent may be deposited in sanitary landfill in accordance with local, state and federal regulations. incinerate volatiles.

 SPECIAL PROTECTION - SECTION VII

VENTILATION TYPE: General mechanical ventilation may be sufficient to keep product vapor concentrations within TLV.
 RESPIRATORY PROTECTION: If vapor concentration exceeds TLV, use organic respirator.
 PROTECTIVE GLOVES: Impervious
 EYE PROTECTION: Use splash goggles when eye contact may reasonably occur.
 OTHER PROTECTIVE EQUIPMENT: Use impermeable apron if needed to avoid contaminating regular clothing which could result in prolonged skin contact.

 STORAGE AND HANDLING - SECTION VIII

Keep product containers cool, dry and away from sources of ignition. Use and store this product with adequate ventilation. Do not transfer product for storage into unmarked containers.

 SHIPPING - SECTION IX

PROPER SHIPPING NAME: Paints, stains or varnishes, NOI
 LABEL REQUIREMENTS: Empty drum hazard

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MISCELLANEOUS - SECTION X

ABBREVIATIONS:

N/A: Not applicable
N/D: Not determined
N/E: Not established
UNK: Unknown
<: Less than
>: Greater than

PREPARED BY: Thomas H. Jones, Technical director

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