

MATERIAL SAFETY DATA SHEET

For Coatings, Resins, and Related Materials.

MANUFACTURED FOR:
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DATE OF PREPARATION: Jan 5, 2004

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SECTION I - PRODUCT IDENTIFICATION

PRODUCT NUMBER: Retardant 19 PRODUCT: Gem Retardant PRODUCT CLASS: Add mixtures
TRANSPORTATION INFORMATION: class 50, non-hazardous
HMIS INFORMATION: HEALTH: 2 FLAMMABILITY: 0 REACTIVITY: 0
PERSONAL PROTECTIVE EQUIPMENT:

SECTION II - HAZARDOUS INGREDIENTS

| <u>INGREDIENT</u> | <u>CAS NUMBER</u> | <u>OSHA - PEL</u> | <u>ACGIH TLV</u> |
|-------------------|-------------------|-------------------|------------------|
| Formaldehyde | 000050-00-0 | | |

N.E. - NONE ESTABLISHED.

SECTION III - PHYSICAL / CHEMICAL DATA

BOILING POINT: >212F SPECIFIC GRAVITY: 1.2
VAPOR PRESSURE: unknown VAPOR DENSITY (AIR = 1): unknown
% VOLATILES IN WATER: 50 % EVAPORATION RATE(BUTYL ACETATE = 1): N/A
SOLUBILITY IN WATER: Dilutable in all proportions.
APPEARANCE AND ODOR: Clear liquid; slight odor.

SECTION IV - FIRE AND EXPLOSION HAZARD DATA.

FLASH POINT: Non - Flammable
FLAMMABLE LIMITS: LOWER: N/A UPPER: N/A
EXTINGUISHING MEDIA: Use of water spray, dry chemical, Carbon dioxide, or foam.
SPECIAL FIRE FIGHTING PROCEDURES: None
UNUSUAL FIRE AND EXPLOSION HAZARDS: None

SECTION V - REACTIVITY DATA

STABILITY: STABLE (X) NOT STABLE ()
CONDITIONS TO AVOID: Keep form freezing.
INCOMPATIBILITY (MATERIALS TO AVOID): None
HAZARDOUS DECOMPOSITION PRODUCTS: None
HAZARDOUS POLYMERIZATION: WILL () WILL NOT (X)

SECTION VI - HEALTH HAZARD DATA

| <u>ROUTES OF ENTRY</u> | <u>HAZARD</u> |
|------------------------|--|
| EYES: (X) | May cause irritation and inflammation of area. |
| SKIN: (X) | May cause irritation and redness of skin. |
| INHALATION: (X) | Acute inhalation not expected to result in adverse effects. |
| INGESTION: (X) | Harmful if ingested. Effects include: Nausea, vomiting and digestive tract irritation. |

EMERGENCY AND FIRST AID PROCEDURES.

EYE: Flush with generous amounts of water for at least 15 minutes with eyelids held open.
SKIN: Wash with soap and water. Clean and rinse thoroughly. Wash contaminated clothing before reuse.
INHALATION: If symptoms develop, get fresh air.
INGESTION: Do NOT Induce vomiting. See a physician immediately.

SECTION VII - SPILL OR LEAK PROCEDURES.

SPILLS OR LEAKS: Clean up spill area with water or absorbent material.
WASTE DISPOSAL METHOD: Dispose of in accordance with all applicable federal, state, and local regulations.
HANDLING AND STORAGE: Store in cool dry place.
OTHER PRECAUTIONS: Keep containers closed when not in use.

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SECTION VIII - SAFE HANDLING AND USE INFORMATION.

VENTILATION REQUIREMENTS: LOCAL (X) MECHANICAL () OTHER ()

RESPIRATORY PROTECTION (Specify Type): None

PROTECTIVE GLOVES: None

EYE PROTECTION: Chemical safety goggles or face shield.

OTHER PROTECTIVE EQUIPMENT: None

SECTION IX - SPECIAL PRECAUTIONS.

OTHER PRECAUTIONS: KEEP CONTAINERS CLOSED WHEN NOT IN USE. WASH
THOROUGHLY AFTER HANDLING. PROTECT FROM FREEZING.

NOTE: THE ABOVE INFORMATION IS ACCURATE TO THE BEST OF OUR KNOWLEDGE. HOWEVER, SINCE DATA SAFETY STANDARDS, AND GOVERNMENT REGULATIONS ARE SUBJECT TO CHANGE AND THE CONDITIONS OF HANDLING, AND USE, OR MISUSE, ARE BEYOND OUR CONTROL. GEMSTONE SYSTEMS, INC., MAKES NO WARRANTY, EITHER EXPRESS OR IMPLIED, WITH RESPECT TO THE COMPLETENESS OR CONTINUING ACCURACY OF THE INFORMATION CONTAINED HEREIN AND DISCLAIMS ALL LIABILITY FOR RELIANCE THEREON. USER SHOULD SATISFY HIMSELF THAT HE HAS ALL CURRENT DATA RELEVANT TO HIS / HER PARTICULAR USE.