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PRODUCT: Expand-A-Seal ES 0105
MSDS ID: ND3339 (Applied)
ORIG. DATE: 05/09/2006
REV. DATE:
REV. DATE:

PREPARED BY: Chemical Safety

SECTION I -Material Identification and Information H: 1 F: 0 R: 0 PPE:C

COMPONENTS	CAS #	PERCENT %	OSHA PEL	ACGIH TLV	OTHER LIMITS RECOMMENDED
Cycloaliphatic amine	MC-01-166	1761-71-3	20-25	Not est.	Not est.
Synthetic Polymer Resin	MC-01-79	27360-07-2	5-7	15 mg/m3	10 mg/m3 Nuisance dust.
Epoxy Resin	MC-01-81	28064-14-4	50-55	Not est.	Not est.
Urea-formaldehyde-melamine polymer		25036-13-9	10-15	Not est.	Not est.
Encapsulated Blowing Agent		63148-57-2	1-5	Not est.	Not est.

All ingredients are listed on the TSCA Inventory. n.a.= not applicable / n.e.=not established

SECTION II -Physical and Chemical Characteristics

BOILING POINT: not applicable
VAPOR DENSITY: n.a. air = 1
VAPOR PRESSURE: n.a.
MELTING POINT: n.a.
SPECIFIC GRAVITY: n.a. water = 1
EVAPORATION RATE: n.a. butyl acetate
WATER REACTIVE: No
SOLUBILITY IN WATER: ~ 0.1 - 1.0%
APPEARANCE AND ODOR: Green cohesive malleable solid with no odor.

VOC #/gal. : n.a.
DENSITY OF COATING: n.a.

SECTION III - Fire and Explosion Hazard Data

FLASH POINT: >200°F
AUTOIGNITION TEMPERATURE: Unknown
FLAMMABILITY LIMITS % IN AIR: LEL: n.a. UEL: n.a.
EXTINGUISHER MEDIA: Use dry chemicals, foam, CO2, water and/or water fog.

SPECIAL FIREFIGHTING PROCEDURES: Wear NIOSH approved self-contained breathing apparatus with full face piece operated in pressure-demand or other positive pressure mode when fighting fires.

UNUSUAL FIRE HAZARDS AND CONDITIONS TO AVOID: Combustion yields oxides of carbon and nitrogen, aldehydes, acids and cyanides

MATERIAL SAFETY DATA SHEET

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SECTION IV - Reactivity Hazard Data

STABILITY: **stable:** X **unstable:**
HAZARDOUS POLYMERIZATION: **may occur:** **will not occur:** X
CONDITIONS TO AVOID: Avoid temperatures exceeding 120°F. Avoid mixing with strong oxidizing agents, strong acids and bases and primary and secondary aliphatic amines.

INCOMPATIBILITY: Excessive heat, ignition sources, oxidizing agents, acids, bases and amines.

HAZARDOUS DECOMPOSITION PRODUCTS: Combustion yields oxides of carbon and nitrogen, aldehydes, acids and cyanides

SECTION V - Health Hazard Data

PRIMARY ROUTES OF ENTRY: **INHALATION:** **INGESTION:** X **SKIN ABSORPTION:**

EYE CONTACT: Material may cause mechanical irritation of eye. Components of this material are corrosive to the eye.

FIRST AID: Flush eyes with generous amounts of water for 15 minutes lifting both upper and lower eyelids occasionally. Get medical attention.

SKIN CONTACT: Excessive exposure may cause skin irritation.

FIRST AID: Flush skin with large amounts of water; use soap if available. If irritation occurs get medical attention. Do not reuse clothing until cleaned.

INHALATION: Not expected to be a route of exposure

FIRST AID:

INGESTION: Not hazardous in small amounts. Large quantities may be toxic.

FIRST AID: If swallowed, get medical attention.

CHRONIC EFFECTS: Components of this material may result in dermatitis from repeated exposure.

Carcinogenic: Not listed.

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Component	Oral LD50	Dermal LD50	Inhalation LC50
Cycloaliphatic amine	>625 mg/Kg (rat)	>2110 mg/kg (rabbit)	>10 mg/L/hr. (rat)
Synthetic Polymer Resin	approx.. nontoxic	approx.. nontoxic	not determined
Epoxy Resin	not determined	not determined	not determined
Urea-formaldehyde-melamine polymer	see notes	see notes	not determined
Encapsulated Blowing Agent	not determined	not determined	not determined

SECTION VI - Control and Protective Measures

RESPIRATORY PROTECTION: None required.

PROTECTIVE GLOVES: Latex gloves recommended

EYE PROTECTION: Wear NIOSH approved chemical splash goggles.

VENTILATION TO BE USED: LOCAL EXHAUST: MECHANICAL: SPECIFIC: OTHER (specify):

PROTECTIVE CLOTHING AND EQUIPMENT: Wear impervious clothing to prevent repeated prolonged skin exposure.

HYGIENIC WORK PRACTICES: Practice good personal hygiene and wash hands after using product.

SECTION VII - Precautions for Safe Handling and Spill/Leak Procedures

STEPS TO BE TAKEN IF MATERIAL IS SPILLED OR RELEASED:

Sweep up material and dispose of properly.

WASTE DISPOSAL METHODS: This material is not a hazardous waste when in applied/solid form.

SAFE HANDLING AND STORAGE: Store material in a cool dry place.

OTHER PRECAUTIONS AND SPECIAL HAZARDOUS INFORMATION:

RECOMMENDED NFPA/HMIS RATING

HEALTH 1

FLAMMABILITY 0

REACTIVITY 0

PERSONAL PROTECTION C

note: ratings may differ according to application, environment, and physical state.

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NOTES:

Proper DOT shipping name:
Not regulated

The toxicity data for the urea-formaldehyde-melamine polymer has not been determined, but suppliers of urea-formaldehyde and melamine-formaldehyde resins in an unpolymerized form report their material to be nontoxic to rats orally and rabbits dermally with LD50's of >5000 mg/Kg and >2000 mg/Kg, respectively.

SECTION 313 SUPPLIER NOTIFICATION

Detaching this notification from the Material Safety Data Sheet is prohibited by law and any copying or distribution of same requires this attachment be included.

This product contains the following toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and 40 CFR 372:

<u>CAS #</u>	<u>CHEMICAL NAME</u>	<u>% BY WEIGHT</u>
	None	

This product contains the following materials that under California Proposition 65 of the Safe Drinking Water and Toxic Enforcement Act of 1986 are recognized to cause cancer or reproductive toxicity.

<u>Material</u>	<u>CAS #</u>	<u>Concentration %</u>	<u>Cancer Agent</u>	<u>Reproductive Toxin</u>	<u>cancer agent & Reproductive Toxin</u>
Epichlorohydrin	106-89-8	< 1ppm	X		

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