MATERIAL SAFETY DATA SHEET

Tectorius North America
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Product: Tec-Bond 235(3) (SB Liquid)
Date: November 3, 2010
Prepared By: Materials Department

SECTION 1- Material Identification and Information

H: 2 **F: 3** **R: 0** **PPE: C**

COMPONENTS	Cas#	Percent%	OSHA PEL	ACGIH TLV	Other Limits Recommended
Toulene	108-88-3	20-45	100 ppm	100 ppm	
Cycloaliphatic Amine	Proprietary	10-35	n.e.	n.e.	
Aliphatic Amine	Proprietary	0-5	n.e.	n.e.	
Synthetic Polymer Resin	Proprietary	2-15	15 mg/m3	10mg/m3	
Silica	112926-00-8	2-5	6.0 mg/m3	10mg/m3	
Hybrid Epoxy Resin	25068-38-6	30-35	n.e.	n.e.	
Synthetic Polymer Resin	Proprietary	10-15	n.e.	n.e	
Pigment	147-14-8	1-5	n.e.	n.e.	

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

SECTION 2- Physical and Chemical Characteristics

Boiling Point:	>230◦F		
Vapor Density:	~3.14	air= 1	
Vapor Pressure:	~24.00 @ 68◦F		
Melting Point:	n.a.		
Specific Gravity:	>1.0	water=1	butyl acetate
Evaporation Rate:	~4.5		
Water Reactive:	No.		
Solubility in Water:	~0.1-1.0%		
Appearance and Odor:	**Blue, yellow or red liquid with aromatic odor**		

SECTION 3- Fire and Explosion Hazard Data

Flash Point:	>39 F	
Autoignition Temperature:	Unknown	
Flammability Limits% in air:	LEL:~1.20%	UEL:~7.10 %
Extinguisher Media:	Use dry chemicals, foam, CO2 and water spray.	

Special Fire Fighting Procedures: Wear NIOSH approved self-contained breathing apparatus with full face piece operated in pressure-demand or other positive pressure mode when fighting fires. Use water spray to cool fire exposed surfaces and to protect personnel. Either allow fire to burn under controlled conditions or extinguish with foam or dry chemical. Avoid spraying water directly into storage containers due to danger of boil over.

Unusual Fire Hazards and Conditions to Avoid: Combustion yields oxides of carbon and nitrogen, aldehydes, ammonia, acids chlorides and cyanides.

SECTION 4-Reactivity Hazard Data

Stability: Stable: X Unstable:

Hazardous Polymerization: May Occur: Will Not Occur: X

Conditions to Avoid: Avoid temperatures exceeding 250◦F. Avoid mixing with strong oxidizing agents, strong acids and bases.

Incompatibility: Excessive heat, ignition sources, oxidizing agents, acids, bases, peroxides and sodium or calcium hypochlorite.

Hazardous Decomposition Products: Combustion yields oxides of carbon and nitrogen, aldehydes, acids, chlorides and cyanides.

SECTION 5-Health Hazard Data

Primary Routes of Entry: Inhalation: X Ingestion: X Skin Absorption: X

Eye Contact: Material is irritating to the eye and may cause damage.

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

Skin Contact: May be severely irritating to the skin.

First Aid: Remove contaminated clothing/shoes and wipe excess from skin. Flush skin with large amounts of water; use soap if available. Do not apply greases or ointments. If irritation occurs get medical attention. Do not reuse clothing until cleaned.

Inhalation: Inhalation of this material at high concentrations can be irritating to the respiratory tract. May cause headaches, dizziness, anesthesia, drowsiness, unconsciousness, central nervous system effects, brain damage and possibly death.

First Aid: Remove individual to fresh air. Restore or support breathing as necessary. Get medical attention.

Ingestion: Small amounts of this material aspirated into the respiratory system during ingestion or vomiting may cause mile to severe pulmonary injury, possibly progressing to death.

First Aid: If swallowed, DO NOT INDUCE VOMITING. Give the person two glasses of milk or water. Never give anything by mouth to an unconscious person. Get medical attention.

Chronic Effects: Toluene is a depressant of the central nervous system. Repeated exposure can depress bone marrow and cause enlargement of the liver. Deliberate and chronic inhalation of this product may cause liver, kidney, brain and nervous system damage. Prolonged and repeated exposure of pregnant animals to toluene (levels greater than 1500 ppm) has been reported to cause adverse fetal development effects. Sensitization may occur after repeated exposure.

Carcinogenic: Not listed.

Component	Oral LD50	Dermal LD50	Inhalation LC50
Toulene	not determined	not established	not established
Cycloaliphatic Amine	>625 mg/kg (rat)	>2110 mg/kg (rabbit)	>10 mg/L/hr. (rat)
Aliphatic Amine	approx. nontoxic	approx. nontoxic	not determined
Synthetic Polymer Resin	approx. nontoxic	approx. nontoxic	not determined
Silica	>31600 mg/kg (rat)	>2000 mg/kg (rabbit)	not determined
Hybrid Epoxy Resin	not determined	not determined	not determined
Synthetic Polymer Resin	see notes	see notes	not determined
Pigment	>10000 mg/kg (rat)	not determined	not determined

SECTION 6-Control and Protective Measures

Respiratory Protection: Work in a well ventilated area. Wear NIOSH approved breathing apparatus in high vapor concentration.

Protective Gloves: Use Nitrile, rubber or latex.

Eye Protection: Wear NIOSH approved chemical splash goggles.

Ventilation To Be Used: Local Exhaust: X Mechanical: X Other (specify): Work in a well ventilated area.

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 7-Precautions for Safe Handling and Spill/Leak Procedures

Steps to be taken if material is spilled or released:

Immediately extinguish all sources of ignition, flame, heat, etc.…until area is free from explosive hazard. Absorb material on inert filler or floor absorb and transfer to a ventilated area for proper disposal.

Waste Disposal Methods: Dispose of material according to local, state and federal regulations.

Safe Handling and Storage: Avoid breathing product vapors and skin contact. Store material in a cool dry place and keep product container sealed when not in use.

Other Precautions and Special Hazardous Information: Containers of this product may be hazardous when emptied, since containers retain product residue. Observe all precautions.

Recommended NFPA/HMIS Rating:

Health: 2 **Flammability: 3** **Reactivity: 0** **Personal Protection: C**

Note: Ratings may differ according to application, environment and physical state.

NOTES:

Proper DOT shipping name: Adhesives, containing flammable liquid.
3, UN1133, II, ERG 127

The toxicity data for the aminoplastic polymer has not been determined, but suppliers of like materials and related 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. Polymerized materials will pose less of a hazard than those not in a polymeric state.

Section 313 Supplier Notification:

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

Cas#	Chemical Name	% By Weight
108-88-3	Toluene	20-45

This product contains 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.

Material	CAS#	Concentration %	Cancer Agent	Reproductive Toxin
Toluene	108-88-3	20-45%		X
Epichlorohydrin	106-89-8	>1ppm	X	

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