

MATERIAL DATA SAFETY SHEET

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SECTION 1 - IDENTIFICATION

MetalTec Ceramic Repair Compounds (MT6000,MT6300,MT7000,MT7100,MT7150,MT7900,MTCerbide)
Part A and Part B

SECTION 2 - HAZARDOUS INGREDIENTS

HARDENER - Part A	CAS	OSHA	ACGIH	BASE - Part B	CAS	OSHA	ACGIH
	Number	PEL	TLV		Number	PEL	TLV
Aliphatic Amines and Epoxy Modifiers	Mixture	N.A.	N.A.	Liquid Epoxy Resin	Mixture	N.A.	N.A.
HMIS Hazard Rating	H-3	F-1	R-0	HMIS Hazard Rating	H-2	F-1	R-0

SECTION 3 - PHYSICAL DATA

HARDENER - Part A		BASE - Part B	
Boiling Point	482°F(250°C)	Boiling Point	>400°F(200°C)
Melting Point	N.A.	Melting Point	N.A.
% Volatiles	0.00	% Volatiles	0.00
Vapor Pressure(mm Hg)	N.A.	Vapor Pressure(mm Hg)	N.A.
Vapor Density(Air=1)	N.A.	Vapor Density(Air=1)	N.A.
Solubility in water	Negligible	Solubility in water	Insoluble
Specific Gravity(Water=1)	N.A.	Specific Gravity(Water=1)	N.A.
Evaporation Rate(Butyl Acetate=1)	<.01	Evaporation Rate(Butyl Acetate=1)	N.A.
Appearance and Odor:	MT7000 Black paste, Ammonia odor	Appearance and Odor:	MT7000 Gray paste, mild odor
	MT7100 Liquid, Ammonia odor		MT7100 Black paste, mild odor
	MT7150 Liquid, Ammonia odor		MT7150 White paste, mild odor
	MTCerbide White paste, Ammonia order		MTCerbide Yellow paste, mild odor

SECTION 4 - FIRE AND EXPLOSION

HARDENER - Part A	BASE - Part B
Flash Point	230°F(110°C) (PMCC)
Flammability Limits	>200°F(93°C)
	LFL: N.A. UFL: N.A.
Autoignition Temperature	N.A.
Extinguishing Media	CO ₂ , water spray, dry chemical, foam
Special Fire Fighting Procedures	Toxic fumes (CO ₂ , CO and NO) will evolve when this material is involved in a fire. Self-contained breathing apparatus should be made available to fire fighters. Keep containers cool.
Unusual fire & explosion Hazards	None

SECTION 5 - REACTIVITY DATA

HARDENER - Part	BASE - Part B
Stability	Material is stable. Can autoignite at 561°F(294°C)
Incompatibility with Other Substances	Strong oxidizing agents
Hazardous Decomposition products	CO, CO ₂ , Aldehydes
Hazardous Polymerization	Will not occur
Conditions to avoid	High temperatures, strong acids or bases

SECTION 6 – HEALTH HAZARD INFORMATION

HARDENER - Part A		BASE – Part B
Routes of Entry	Skin, eyes, ingestion, inhalation.	Skin, eyes, ingestion, inhalation.
Affects of Overexposure	May cause burns to skin and eyes, asthmatic reactions, skin sensitization, or other allergic reactions. Can result in permanent impairment of vision, even blindness. High concentrations of vapor can cause irritation to eyes and respiratory tract. Ingestion may cause gastrointestinal irritation or ulceration. May cause burns to mouth and throat.	May cause irritation to eyes and skin and may aggravate allergy, eczema or other skin conditions
Skin Absorption	A single prolonged exposure may be harmful. The LD50 for skin absorption in rabbits is 800 mg/kg.	Not established
Ingestion	Single dose oral toxicity is low. Oral LD50 for rats is 4340 mg/kg.	The LD50 for rats >5000 mg/kg.
Other Effects	Did not cause cancer in long term animal studies. Birth defects are unlikely. In laboratory animals fed exaggerated doses, adverse effects occurred that were believed to be associated with an observed copper deficiency. However, exposures having no adverse effect on the mother should have no effect on the fetus. Results of in vitro (test tube) mutagenicity tests have been positive.	This material is not considered to be a carcinogenic by NTP, IARC, or OSHA.

SECTION 7- FIRST AID

HARDENER - Part A		BASE – Part B
Eyes	Immediate and continuous irrigation with flowing water for at least 30 minutes. Call physician.	Immediate and continuous irrigation with flowing water for at least 15 minutes. Call physician.
Skin	Immediately flush skin with water for at least 15 minutes. Get medical attention for burns or if rash develops.	Promptly wash skin with soap and water.
Inhalation	Remove to fresh air and administer oxygen if breathing is difficult.	Remove to fresh air and administer oxygen if breathing is difficult.
Ingestion	Do not induce vomiting. Give large amounts of water or milk. Get medical attention.	Give large amounts of water. Consult physician.
Note to Physician	May cause tissue destruction leading to stricture. If lavage is performed, suggest endotracheal and/or esophagoscopy control. If burn is present, treat as thermal burn. No specific antidote. Excessive exposure may aggravate pre-existing asthma.	None

SECTION 8- PREVENTATIVE MEASURES

HARDENER - Part A		BASE – Part B
Spills or Leaks	Scoop up material and return to containers if not contaminated, otherwise soak up with absorbent.	Scoop up material and return to containers if not contaminated, otherwise soak up with absorbent.
Waste Disposal	Dispose of in accordance with federal, state and local regulations. Incineration is acceptable and the preferred method of disposal.	Not a hazardous waste by RCRA criteria. Dispose of properly by federal, state and local regulations.
Hand Protection	Chemical resistant gloves.	
Eye Protection	Chemical goggles or safety glasses with side shields. Contact lenses should not be worn.	
Skin Protection	Wear clothing with long sleeve shirts to cover skin.	
Respiratory Protection	Generally, respiratory protection is unnecessary provided there is adequate ventilation. Otherwise, use a cartridge mask NIOSH approved for organic vapors is recommended. Avoid breathing vapors.	
Ventilation	Use good general mechanical ventilation and local exhaust. Avoid breathing vapors and dusts.	
Handling Precautions	Wear protective clothing including chemical gloves and splash goggles. Wash hands before eating, drinking, smoking or using toilet facilities. Use with adequate ventilation. Mixing part A and B may produce enough heat to cause burns.	
Regulatory Information	U.S. Regulations - Reviewed under SARA Sections 311 & 312 and meets the following categories: an immediate health hazard a delayed health hazard No known toxic chemicals subject to requirements of Sec. 313. Canadian Regulations - WHIMIS designations for this Product: D.1.B. – D.2.A. – E.	U.S. Regulations – Not a hazardous waste under RCRA CERCLA status – not listed. SARA Title III. This product does not contain a toxic chemical for routine annual "toxic chemical release reporting" under Section 313. Canadian Regulations – WHIMIS designation for this product: D.2.B.