

MIRACLE MIX - ALLOY
MATERIAL SAFETY DATA SHEET**SECTION 1 - SOURCE/IDENTITY/USE INFORMATION****MANUFACTURER**

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COMMON NAME: MIRACLE MIX - ALLOY**CHEMICAL NAME:** N.A.**PRODUCT USE:** Reinforced glass ionomer crown/core material - alloy component

The following information is provided with regard to the toxicity and hazards of the pure components present in this portion of the unmixed powder/liquid system.

SECTION 2 - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

COMPONENT	C.A.S.	EXPOSURE LIMITS	LD50/LC50	%
Silver metal	7440-22-4	TWA = 0.1 mg/m ³	N.E.	56
Tin metal	7440-31-5	TWA = 2 mg/m ³	N.E.	29
Copper metal	7440-50-8	TWA = 0.2 mg/m ³ (ACGIH)	LD50=N.A. LC50=N.E.	15

SECTION 3 - PHYSICAL/CHEMICAL PROPERTIES

BOILING POINT: 1287.8°C	SPECIFIC GRAVITY (H₂O = 1): N.E.
VAPOR PRESSURE: N.E.	MELTING POINT: 587.8°C
VAPOR DENSITY: N.E.	EVAPORATION RATE: N.E.
SOLUBILITY IN WATER: Insoluble	ODOR THRESHOLD: N.E.
COEFFICIENT OF OIL/WATER DISTRIBUTION: N.E.	APPEARANCE AND ODOR: Very fine gray powder

SECTION 4 - FIRE AND EXPLOSION DATA**FLASH POINT:** N.A.**FLAMMABLE LIMITS:** N.A.**EXTINGUISHING MEDIA:** Material is not combustible. However, air-borne dust mixed with sufficient air is flammable if flame is present. Use extinguishing media appropriate to the surrounding area.**SPECIAL FIRE FIGHTING PROCEDURES:** Full protective clothing face mask and self contained breathing apparatus.**UNUSUAL FIRE AND EXPLOSION HAZARDS:** Air-borne dust is flammable**HAZARDOUS COMBUSTION PRODUCTS:** Carbon dioxide, carbon monoxide, toxic metallic oxides**SECTION 5 - REACTIVITY DATA**

STABILITY: Stable Unstable
POLYMERIZATION: Will Not Occur Will Occur

CONDITIONS TO AVOID: Avoid high temperatures and humidity**INCOMPATIBILITY (Materials to Avoid):** Ammonium nitrate, bromates and all halogen salts**HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:** N.E.**SECTION 6 - HEALTH HAZARD DATA and FIRST AID INFORMATION**

	YES	NO	NE	NA	NTP	IARC	OSHA	OTHER
MUTAGENIC AFFECTS		X						
TERATOGENIC AFFECTS		X						
REPRODUCTIVE TOXIN		X						
CARCINOGENICITY		X						
SENSITIZER		X						



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SECTION 6 - HEALTH HAZARD DATA and FIRST AID INFORMATION - continued

ROUTES OF ENTRY: Inhalation Skin Ingestion

HEALTH HAZARD (Acute and Chronic): Can be absorbed through the skin. While not reported as toxic will cause permanent black coloration at the skin contact sites. Dust may cause a form pneumoconiosis which is relatively benign. Inhalation of copper dust has been reported to cause hemolysis of red blood cells.

SIGNS AND SYMPTOMS OF OVEREXPOSURE: N.E.

CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: N.E.

EMERGENCY FIRST AID PROCEDURES:

INHALATION: Remove to fresh air, drink water to clear throat and blow nose to evacuate dust.

INGESTION: Seek medical assistance

SKIN: Wash with soap and water.

EYES: Flush with large quantities of water. If irritation develops or persists seek medical attention.

SECTION 7 - PRECAUTIONS FOR SAFE HANDLING AND USE

IN CASE OF RELEASE OR SPILL: Avoid generating dust during clean up. Wear protective clothing as noted in section 8. If dust is generated use a filter equipped vacuum and MSHA/NIOSH approved mask.

WASTE DISPOSAL METHOD: In accordance with local, state and federal regulations.

STORAGE, HANDLING, AND SPECIAL PRECAUTIONS: Store at room temperature and humidity.

SECTION 8 - CONTROL MEASURES

RESPIRATORY PROTECTION: Minimize exposure to dust in accordance with good hygiene practice. If needed, use MSHA-NIOSH approved respirator for dusts, mists and fumes.

VENTILATION: Local Exhaust: Yes Mechanical: Yes Special: N.A. Other: N.A.

PROTECTIVE GLOVES: Disposable vinyl gloves recommended.

EYE PROTECTION: Safety glasses

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Eyewash station

WORK/HYGIENIC PRACTICE: Follow safe hygiene practices.

SECTION 9- PREPARATION INFORMATION

This data is supplied to comply with OSHA Hazard Communication Standard 29 CFR 1910,1200 and W.H.M.I.S. CPR

DATE: 09 January 2006

REVIEWED: 26 January 2009

N.A. = NOT APPLICABLE
N.E. = NOT ESTABLISHED

The information herein is given in good faith but no warranty expressed or implied is made.

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FIRE - 0 **TOXICITY - 2** **NFPA** **REACTIVITY - 1** **SPECIAL -**