



MATERIAL SAFETY DATA SHEET

Award Paperfaced Metal Bead and Trim

MSDS NO. 0001

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Award Metals
1450 Virginia Avenue
Baldwin Park, CA 91706-5819

Product Safety:
Version Date: October 1, 2004
Version 1

SECTION 1 PRODUCT IDENTIFICATION

PRODUCT: Award Paperfaced Metal Bead and Trim

CHEMICAL FAMILY: Paper and Steel

SECTION 2 INGREDIENTS

MATERIAL	Weight %		Cas Number	TLV(mg/m3)	PEL(mg/m3)
	Min	Max			
Paper:					
Cellulose	1	5	9004-34-6	10	15(T)/5®
Ethylene Glycol					
Mono-n-Butyl Ether ¹	0.01	0.05	111-76-2		10
Adhesive:					
			Trade Secret		
NJTS	1	3	7118		
Steel Compounds:					
Base metal will vary.					
Surface Coatings:					
Nickel Carbonate	2	5	3333-67-3	not established	1
Nitric Acid	2	5	7697-37-2	5	5
Sodium Nitrate	2	5	7631-99-4	not established	not established

1. Product in dry state should be considered a nuisance dust (PEL 10 mg/m3)



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INFORMATION FOR HANDLING AND IDENTIFICATION OF CHEMICAL HAZARDS

NFPA Ratings: Health: 0 Fire: 0 Reactivity: 0 Other: N/A
HMIS Ratings: Health: 0 Fire: 0 Reactivity: 0
Personal Protection: Use eye protection. Use NIOSH/MSHA-approved respiratory protection when necessary.
0 = Minimal Hazard 1 = Slight Hazard 2 = Moderate Hazard 3 = Serious Hazard 4 = Severe Hazard

SECTION 3 PHYSICAL DATA

Appearance and Odor: Light gray with metallic luster. Odorless.
Boiling Point: NA
Melting Point: Iron 2750F
Specific Gravity (H₂O=1): 7
pH Range: NA
Vapor Pressure: NA
Vapor Density (Air=1): NA
Evaporation Rate (H₂O=1): NA
Solubility in Water: NA
Volatile by Volume (%): NA

†Boiling point of zinc (in galvanized steel) is 1665F

SECTION 4 FIRE AND EXPLOSION HAZARD DATA

Flammability: Paper face is combustible. Flammability not tested.
Flash Point (Method Used): None
Upper Flammable Limit: Not applicable
Lower Flammable Limit: Not applicable
Auto-ignition temperature: Not tested
Explosion data: Not explosive
Hazardous Combustion Products: Thermal decomposition of paper will produce H₂O, CO₂, and CO.
Could produce vinyl acetate monomers when temperature is above 175C
Extinguishing Media: Use extinguishing media appropriate for surrounding fire.
Special Fire Fighting Procedures: None
Unusual Fire and Explosion Hazards: None
Special Fire Fighting Protective Equipment: None

SECTION 5 HEALTH HAZARD DATA

Steel products in the natural state do not present an inhalation, ingestion or contact health hazard. However, operations such as welding, "burning", brazing, and to a lesser extent, sawing, grinding, and possibly machining, which result in elevating the temperature of the product to or above its melting point can result in the generation of airborne respirable particles which may present hazards. These operations should be preformed in well-ventilated areas. The major exposure hazard is inhalation, especially of welded fumes.



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EFFECTS OF OVEREXPOSURE:

ACUTE: Excessive inhalation of metallic fumes and dusts may result in irritation of eyes, nose and throat. Also high concentrations of fumes and dust or iron oxide, manganese, copper, zinc and lead may result in metal fume fever. Typical symptoms consist of a metallic taste in mouth, dryness and irritation of the throat, chills and fever, and usually last from 12 to 48 hours.

CHRONIC: Chronic and prolonged inhalation of high concentrations of fumes or dust of the following elements may lead to the conditions opposite of element:

Iron (Iron Oxide)	Pulmonary effects, siderosis.
Chromium	Various forms of dermatitis, inflammation and/or ulceration of upper respiratory tract, and possible cancer of nasal passages and lungs. Based on available information, there does not appear to be any evidence that exposure to welding fumes induced human cancer.
Nickel	Same as chromium.
Copper	Pulmonary effects.
Zinc	None reported.

EMERGENCY AND FIRST AID PROCEDURES:

EYES: Immediately flush well with running water to remove particles. Get medical attention.

SKIN: If irritation develops, remove clothing and wash well with soap and water. If condition persists seek medical attention.

INHALATION: Remove to fresh air, if condition continues consult physician.

INGESTION: If significant amounts of metal are ingested, seek medical attention.

TARGET ORGANS: Lungs

MEDICAL CONDITIONS WHICH MAY BE AGGRAVATED: Pre-existing upper respiratory and lung disease such as, but not limited to, bronchitis, emphysema and asthma.

PRIMARY ROUTES OF ENTRY: Inhalation

CARCINOGENICITY OF INGREDIENTS:

MATERIAL	IARC	NTP
Nickel	Group 2B	Not listed

The International Agency for Research on Cancer (IARC) classified nickel as possible human carcinogens (Group 2B)

SECTION 6 REACTIVITY DATA

STABILITY:	Stable
INCOMPATIBILITY:	Reacts with strong acids to form hydrogen gas.
REACTIVITY:	Acids can attack metal.
HAZARDOUS POLYMERIZATION:	Will not occur.
CONDITIONS TO AVOID:	Non-ventilated areas when cutting, welding, burning, or brazing. Avoid generation of airborne dusts and fumes.
HAZARDOUS DECOMPOSITION:	Metallic oxides.



SECTION 7 SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

NA

WASTE DISPOSAL METHOD:

Dispose of dust, etc. in accordance with federal, state and local regulations.

SECTION 8 SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION:

When engineering controls are not sufficient to lower exposure levels below the applicable exposure limit, use a NIOSH/MSHA-approved respirator for dusts and metal fumes within the use limits of the respirator.

VENTILATION:

General mechanical is expected to be satisfactory but use local exhaust if needed.

PERSONAL PROTECTIVE EQUIPMENT:

Safety glasses should always be worn especially when grinding or cutting. Face shields should be worn when welding or burning. Wear gloves when handling.

SECTION 9 SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

Store in a dry place and on a level surface.

CAUTION!:

SHARP OBJECT.

The edges and corners of this bead are sharp and can cut the skin like a knife.

Wear gloves and eye protection when handling this product.