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## MATERIAL SAFETY DATA SHEET

These products do not meet the criteria of hazardous chemicals as defined by the Federal Occupational Safety and Health Hazard Communication Standard (29CFR 19.10.120(c)). This form is being provided solely as general information and should not be construed as a determination that the product(s) are hazardous chemical(s).

### GENERAL INFORMATION

Manufacturer: Taiwan Shan Yin International  
P O Box 1529  
Kaohsiung, Taiwan

### PRODUCT IDENTIFICATION

Product Name: Metal Fasteners (Bolts, screws, nuts, washers, stampings, etc.)

Formula: N/A

### TYPICAL CHEMICAL COMPOSITION

Various metals, ferrous and nonferrous

Platings

Coatings (optional): See "Additional or Miscellaneous Information"

### PHYSICAL DATA

Physical State:	Solid	Specific gravity:	7.6 – 7.8
Appearance:	Various Shapes	Vapor Pressure:	N/A
Boiling Point:	N/A	Vapor Density:	N/A
Melting Point:	Greater than 1400F	Evaporation rate:	N/A

FIRE AND EXPLOSION HAZARD DATA: Not applicable

### REACTIVITY DATA

Stability: Stable      Hazardous Decomposition Products: Non anticipated

Incompatibilities (Materials to avoid): Acids      Polymerization: Will not occur

## METAL FASTENERS

### HEALTH HAZARD DATA

Health Effects/Signs and Symptoms:	Not applicable
Usual Route(s) of Entry:	Sharp metal fastener may cut skin
Medical Conditions Possibly Aggravated:	None known
Carcinogen Information:	Chromium, cadmium and nickel have been included on NTP's list of Carcinogens. Gloves should be worn when handling Chromium, Nickel and Cadmium treated metals.
Eye Contact:	Not anticipated to pose a significant eye hazard.
Skin Contact:	Not anticipated to pose a significant skin hazard.
Ingestion:	Not anticipated to pose a significant ingestion hazard.
Inhalation:	Not considered an inhalation hazard.

### OCCUPATIONAL EXPOSURE CONTROL MEASURES

Eye Protection:	Safety Glasses Recommended
Skin Protection:	Gloves Recommended
Ingestion:	Never place metal fasteners into mouth.

### SPILL, LEAK AND DISPOSAL INFORMATION

Procedures to follow if material is released or spilled: N/A

Waste Disposal Method(s): Any excess product can be recycled for further use or disposed by methods which are in accordance with local, state and federal regulations.

### ADDITIONAL OR MISCELLANEOUS INFORMATION

Coatings may be applied (often at the customers' request) to the surface of metal products. These are usually classified as protective coatings or lubricants. The typical coatings are as follows:

Phosphates/oil	Waxes
Phosphates/paint	Chrome plating
Zinc plating/chromate	Cadmium plating/chromate
Zinc plating/chromate/(metal filled) paint	Dyeing (color identification)

The possible presence of these coatings on metal products should be recognized and considered when evaluating potential employee health hazards and exposures during normal use.