TRIANGLE FASTENER CORPORATION



Cleveland, OH 44109 P: 216.351.9933 F: 216.351.5008

www.trianglefastener.com

FASTENING SYSTEMS DESIGN AND ENGINEERING CENTER

MATERIAL SAFETY DATA SHEET

Report No.: MSDS062607, Rev.KB052511

Date: May 25, 2011

These products do not meet the criteria of hazardous chemicals as defined by the Federal Occupational Safety and Health Communication Standard 29 CFR 1910.1200 (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:

Triangle Fastener Corporation Date: January 1, 2000

1925 Preble Avenue Pittsburgh, PA 15233

Phone: (412) 351-5000

Product Identification

Product Name: Metal Fasteners (Bolts, screws, nuts, rivets, washers, nails stampings)

Formula: N/A Carbon Steel and Stainless Steel

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 1400°F Evaporation Rate: N/A PH: N/A % Volatile by Volume: N/A

Odor: None Solubility in Water: N/A

DISCLAIMER: THIS INFORMATION IS FOR GENERAL INFORMATION ONLY AND CANNOT BE CONSTRUED AS A SUBSTITUTE FOR COMPETENTPROFESSIONAL ADVISE OR SERVICE. ANY PARTY CONSIDERING APPLICATION OR USE DOES SO AT THEIR OWN RISK AND ASSUMES ANY AND ALL RESULTING LIABITY FROM THIS APPLICATION OR USE.

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Fire and Explosion Hazard Data

Not Applicable

Reactivity Data Stability: Sable

Incompatibilities (Materials to Avoid): Acids

Polymerization: Will Not Occur

Hazardous Decomposition Products: None Anticipated

Health Hazard Data

Health Effects/Signs & 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 in 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 of by methods which are in accordance with local, state and federal regulations.

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Additional or Miscellaneous Information

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

Phosphates/Oil Dyeing (Color Identification)
Phosphates/ Paint Zinc Plating/ Chromate
Chrome Plating Zinc Plating/ Chromate
Cadmium Plating/ Chromate (Metal Filled) Paint

Waxes

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.