

# MATERIAL SAFETY DATA SHEET

ISSUE DATE: 15-10-2008

REVISED DATE: Nil

## I. IDENTIFICATION

PRODUCT NAME: **Hot Dip Galvanized Steel Products .**

## II. HAZARDOUS INGREDIENTS

Element	% weight
<b>In coating:</b>	
<b>Zinc</b>	<b>1.00 to 4.5</b>
<b>Aluminium</b>	<b>0.01 to 0.08</b>
<b>Antimony</b>	<b>&lt;0.02</b>
<b>Lead</b>	<b>500 ppm max. (Rohs compliant)</b>
<b>In Base metal:</b>	
<b>Iron</b>	<b>94 to 99.66</b>
<b>Carbon</b>	<b>0.001 to 0.20</b>
<b>Chromium</b>	<b>0.01 to 0.05</b>
<b>Manganese</b>	<b>0.1 to 0.6</b>
<b>Phosphorous</b>	<b>0.001 to 0.02</b>
<b>Silicon</b>	<b>&lt;0.03</b>
<b>Sulphur</b>	<b>0.001 to 0.02</b>
<b>Molybdenum</b>	<b>Traces</b>

## III. PHYSICAL DATA

APPEARANCE: Metallic Color

BOILING POINT: N/A

SPECIFIC GRAVITY: 7.5-8.5 g/cm<sup>3</sup>

SOLUBILITY IN WATER: Not Soluble

SOFTENING POINT: 2400 F

MELTING POINT: 2750°F

## IV. HEALTH HAZARD DATA

The galvanized coils/sheets at room temperature do not cause any health hazards.

## V. EMERGENCY AND FIRST AID PROCEDURES

Not applicable.

## VI. FIRE AND EXPLOSION HAZARD DATA

PRODUCT OF COMBUSTION:

Material will begin softening at approximately 2400 F, will proceed to a liquid and form irritating and toxic gaseous metallic oxides at extremely high temperatures.

## **VII. SPILL OR LEAK PROCEDURES**

Not applicable

## **VIII. SPECIAL PROTECTION**

**EYE PROTECTION:** Personal protective equipment should be worn when there is a reasonable probability of injury. Wear safety glasses with side shields.

**HAND PROTECTION:** Wear leather or other appropriate work gloves, if necessary for type of operation.

**OTHER:** Protective clothing coveralls.

## **IX. CARCINOGENIC ASSESSMENT**

Nickel and Chromium have been identified as suspect carcinogens.

## **X. REACTIVITY DATA**

**STABILITY:** Stable under normal conditions of handling and use.

**CONDITIONS TO AVOID:** Poor ventilation.

**INCOMPATIBILITY:** Strong acids (produce hydrogen gas)

**HAZARDOUS DECOMPOSITION PRODUCT:** Metallic oxide.

**HAZARDOUS POLYMERIZATION:** Will not occur

## **XI. SPECIAL PRECAUTIONS**

**HANDLING AND STORAGE:** Use good housekeeping practices to avoid excessive dust accumulation. As supplied, this product does not present a health hazard. Processing of the product for final uses can include formation of dusts, particulates, or fumes, some of which may present health hazards.

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