

MATERIAL SAFETY DATA SHEET

CHEMTREC (800) 424-9300

Manufacturer's Name: Universal Woods Inc.

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SECTION 1 - IDENTITY

Common Name: Unisub Steel

CAS No: NA

Trade name & Synonyms: Unisub Steel

Description: Steel

Formula: NA

SECTION 2 - HAZARDOUS INGREDIENTS

Principal Hazardous Component (s): This material is a galvanized hot dipped carbon steel. As such it is essentially inert (non-toxic) during handling and storage. However only information specific to the Steel is included as required. PLEASE NOTE: Other components used in the sublimation process such as inks are separate materials and are not covered in this MSDS.

Table with 4 columns: Chemical Name, CAS Number, OSHA, % by wt. Rows include Iron, Calcium, Carbon, Copper, Manganese, Phosphorus, Silicon, and Sulfur with their respective exposure limits.

SECTION 3 - PHYSICAL & CHEMICAL CHARACTERISTICS

Boiling Point: NA	Density 7.85 g/cc	Specific Gravity: (H2O=1 at 4 degrees C): 7.85
Vapor Pressure (mm Hg): NA	Percent Volatile by Volume (%): NA	Vapor Density (Air = 1): NA
Evaporation Rate (butyl acet = 1): NA	Solubility in Water: Insoluble	Reactivity in Water: None known

Appearance and Odor: The sublimation or engraving process could also create an odor.

FIRE AND EXPLOSION DATA

Explosive Limits: See below under Unusual Fire and Explosion Hazards

Flash Point: NA	Flammable Limits in Air % by Volume:	<u>Lower</u> NA	<u>Upper</u> NA
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Extinguisher

Media: NA for solid product. Use extinguisher appropriate for surrounding materials.

Special Fire Fighting Procedures: Do not release runoff from fire control methods to sewers or waterways.

Unusual Fire and Explosion Hazards: Not applicable for solid product. Do not use molten metal.

SECTION 4 - PHYSICAL HAZARDS

Stability: Steel products are stable under normal storage and handling conditions

Conditions to Avoid: Storage with strong acids or calcium hypochlorite

Incompatibility (Materials to Avoid): Will react with strong acids to form hydrogen. Iron oxide dusts in contact with calcium hypochlorite evolve oxygen and may cause an explosion.

Hazardous Decomposition Products: Thermal oxidative decomposition off galvanized steel products can produce fumes containing oxides of zinc, iron and manganese as well as other elements.

Hazardous Polymerization: Will not occur.

SECTION 5 - HEALTH HAZARDS: This product poses little or no immediate health or fire hazard. When product is subjected to welding, burning, melting, sawing, grinding or other similar processes, potentially hazardous airborne particulate and fumes may be generated. Avoid inhalation of metals dusts and fumes. Operations having the potential to generate airborne particulates should be performed in well ventilated areas and if appropriate, respiratory protection and other personal protective equipment should be used. Iron or steel foreign bodies imbedded in the cornea of the eye may produce rust stains unless removed fairly promptly.

Primary Routes of Exposure:

Steel products in the natural state do not present an inhalation, ingestion or contact hazard.

Eye Contact: Excessive exposure to high concentrations of dust may cause irritation to the eyes.

Skin Contact: Dust may cause irritation or sensitization, possibly leading to dermatitis.

Ingestion: Not likely to occur.

Signs and Symptoms of Overexposure / First Aid Measures:

Inhalation: Over-exposure to airborne fumes and particulate, remove exposed person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, trained personnel should administer oxygen. Seek immediate medical attention.

Eye Contact: Flush eyes with large amounts of water or saline for at least 15 minutes. If irritation persists, get medical advice.

Skin Contact: Wash affected areas with soap and water for at least 15 minutes. Get medical advice if rash or persistent irritation or dermatitis occurs.

Ingestion: None known. However, if ingested, seek medical attention immediately.

Medical Conditions Generally Aggravated by Exposure: Respiratory, possible sensitization.

Chemical Listed as Carcinogen or Potential Carcinogen: OSHA does not list steel products as carcinogens.

SECTION 6 - SPECIAL PROTECTION INFORMATION :

Ventilation: Usually not necessary to reduce exposures to TLV during normal use. General or local exhaust may be necessary to minimize odors in small rooms. **All confined space work should be done in accordance with OSHA 1910.146.**

Protective Gloves: Possible material handling hazard (cuts, abrasion). Use cloth or leather if necessary or requested.

Eye Protection: Safety glasses required.

Other Protective Clothing or Equipment: None known.

SECTION 7 - SPECIAL PRECAUTIONS AND SPILL/LEAK PROCEDURES

Precautions to be Taken in Handling and Storage: None known.

Other Precautions: Use sufficient local or general ventilation to reduce odors.

Steps to be Taken in Case Material is Released or Spilled: Currently none for product.

Waste Disposal Methods: Steel scrap should be recycled material whenever possible.