

Galvanized Double Twisted Wire Mesh Products

PRODUCT NAME : Galvanized Double Twisted Wire mesh Products, Gabions, Gabion Mats, Reno Mattresses, Sack Gabions, Rolled Mesh and Roadmesh

1. Name of Company and Products:

Maccaferri Inc.
10303 Governor Lane Boulevard
Williamsport, MD 21795
301-223-6910

2. Composition / Information on Ingredients

Chemical composition: iron, zinc, manganese, nickel, lead
Information on Ingredients: iron, chromium dust, manganese dust or fumes, nickel, copper, silicon inert dusts, lubricant/oils

3. Hazards Identification

Potential health effects: Note: Steel products in their solid state under normal conditions, do not present an inhalation, ingestion or skin hazard. However, operations resulting in fume or particulate formation such as welding, sawing, brazing, grinding, and machining may present health hazards. Molten steel also is hazardous.

Acute eye: Dusts or particulates may cause mechanical irritation including pain, tearing, and redness. Scratching of the cornea can occur if eye is rubbed. Fumes may be irritating. Contact with the heated material may cause thermal burns.

Acute skin: Dusts or particulates may cause mechanical irritation due to abrasion. Coated steel may cause skin irritation in sensitive individuals. Some components in this product are capable of causing an allergic reaction, possibly resulting in burning, itching, and skin eruptions. Contact with heated material may cause thermal burns.

Acute inhalation: Dusts may cause irritation of the nose, throat, and lungs. Excessive inhalation of metallic fumes and dusts may result in metal fume fever, an influenza-like illness. It is characterized by a sweet or metallic taste in the mouth, accompanied by dryness and irritation of the throat, cough, shortness of breath, pulmonary edema, general malaise, weakness, fatigue, muscle and joint pains, blurred vision, fever and chills. Typical symptoms last from 12 to 48 hours.

Acute ingestion: Not expected to be acutely toxic via ingestion based on the physical and chemical properties of the product. Swallowing of excessive amounts of the dust may cause irritation, nausea, and diarrhea.

4. First aid

Eye Exposure: Flush eyes with plenty of water or saline for at least 15 minutes. SEEK MEDICAL ATTENTION.

Skin Exposure: Wash skin with soap and water for at least 15 minutes. If irritation develops, SEEK MEDICAL ATTENTION.

Inhalation: Move to fresh air. If not breathing, administer artificial respiration. If breathing is difficult, give oxygen. SEEK MEDICAL ATTENTION.

Ingestion: Never give fluids or induce vomiting if the victim is unconscious or having convulsions. SEEK MEDICAL ATTENTION.

5. Fire-Fighting Measures

Flammable properties: This product does not present fire or explosion hazards as shipped. Small chips, turnings, dust, and fines from processing may be readily ignitable.

Fire/Explosion: May be potential hazard under the following conditions:

Dust or fines dispersed in the air can be explosive. Even a minor dust cloud can explode violently.

Chips, dust or fines in contact with water can generate flammable/explosive hydrogen gas. Hydrogen gas could present an explosion hazard in confined or poorly ventilated spaces. Fines and dust in contact with certain metal oxides (e.g., rust). Molten metal in contact with water/moisture or other metal oxides (e.g., rust). Moisture entrapped by molten metal can be explosive.

Extinguishing media:

Use Class D extinguishing agents on dusts, fines, or molten metal. Use coarse water spray on chips and turnings.

Special fire fighting procedures:

Fire fighters should wear NIOSH approved, positive pressure, self-contained breathing apparatus, and full protective clothing when appropriate. Avoid breathing metal oxide fumes, which may cause metal fume fever.

Unusual fire and explosive hazards:

When heated beyond melting point, metal vapor burns in the air with a bright greenish-yellow flame to produce zinc oxide fumes.

6. Accidental Release Measures

Cleanup and disposal of spill:

Avoid inhalation, eye, or skin contact of dusts by using appropriate precautions outlined in this MSDA. Fine turnings and small chips should be swept or vacuumed and placed into appropriate disposable containers. Keep fine dust or powder away from sources of ignition. Scrap should be reclaimed for recycling. Prevent materials from entering drains, sewers, or waterways. Discard any product, residue, disposable container or liner in full compliance with federal, state, and local regulations.

7. Handling and storage

Handling and storage:

Product should be kept dry. Avoid generating dust. Avoid contact with sharp edges or heated metal. PACKAGES OF THIS MATERIAL MAY CONTAIN EXTREME INTERNAL STRESSES AND STORED MECHANICAL ENERGY. USE STANDARD INDUSTRY PRACTICES AND/OR CONSULT YOUR COMPANY'S SAFETY DEPARTMENT FOR PROPER PROCEDURES FOR HANDLING, OPENING, AND CUTTING.

8. Exposure Controls / Personal Protection

Eye protection: Wear safety glasses/goggles to avoid eye contact.

Skin protection: Wear impervious gloves to avoid repeated or prolonged skin contact with residual oils and to avoid any skin injury.

9. Physical and Chemical Properties

Physical state: solid
 Appearance: gray metal
 Boiling point: n/a
 Solubility in water: negligible
 pH level: n/a
 Melting point: 2800°F / 621.37176°F lead
 Vapor density: n/a
 Odor: none

10. Stability and reactivity

Stability: Stable under normal conditions of use, storage, and transportation as shipped.

Conditions to avoid: Steel at temperatures above the melting point may liberate fumes containing oxides of iron and alloying elements. Avoid generation of airborne fume.

Hazardous Polymerization: Will not occur.

Incompatibility/materials to avoid: Reacts with strong acids to form hydrogen gas. Hydrogen peroxide will react violently in contact with lead. (Water reacts violently with molten metals.)

Hazardous decomposition products: Fumes and certain noxious gases, such as CO, may be produced from welding or burning operations. Lead oxide fumes can result if temperatures exceed the melting point for lead, 621.37°F.

11. Toxicological information

The primary component of this product is iron. Long-term exposure to iron dusts or fumes can result in a condition called siderosis, which is considered a benign pneumoconiosis.

Breathing fumes or dusts of this product may result in metal fume fever, which is an illness produced by inhaling metal oxides.

12. Ecological information

No information available for product.

13. Waste disposal

Disposal instructions: Reuse or recycle material whenever possible. Material may be disposed of at an industrial landfill.

14. Transport information

Not regulated

15. Present regulations

US Federal Regulations.

16. Other information

Data and information contained in this Safety Data Sheet are based on our available knowledge at the last revision date. No guarantee can be given as to the sufficiency of any safety measures contained in this Safety Data Sheet, nor can it be assumed that other or additional measures may not be required under particular or exceptional circumstances. The user must make sure of the fitness and completeness of the information, according to the specific use he wants to do.

n.d. = not determinate

n.a. = not applicable

Maccaferri, Inc.

10303 Governor Lane Blvd., Williamsport, MD 21795

Tel. (800) 638-7744 - Fax (301) 223-4590

E-mail: info@maccaferri-usa.com - Web site: www.maccaferri-usa.com

Area Offices:

Phoenix, Arizona
Sacramento, California
Miami, Florida
St. Louis, Missouri

Trenton, New Jersey
Albuquerque, New Mexico
Caguas, Puerto Rico
Dallas/Ft. Worth, Texas