MET056

MATERIAL SAFETY DATA SHEET STEEL PRODUCTS

CAS NO.: 65997-19-5

ORIGINAL ISSUE DATE: 8/1/85 REVISED:

USS CODE NO.___

LIDENTIFICATION

INFORMATION & EMERGENCY TELEPHONE NUMBERS (412) 433-6840 (8 a.m. - 5 p.m., Mon.-Fri.)

(412) 433-5811 (Off Hour Emergencies)

PRODUCT NAME: Galvanized Sheet-Carbon Steel

(Hot Dipped)

COMMON NAME(S): Same

MANUFACTURER:

U. S. Steel Corporation P. O. Box 206 (MSDS)

Pittsburgh, PA 15230

II. INGREDIENTS AND RECOMMENDED OCCUPATIONAL EXPOSURE LEMITS

NOTE: Steel graducts under normal conditions do not present an inhalation ringestion or contact health hazard (See Section VI.). BASE METAL, ALLOYING EXPOSURE LIMITS % WEIGHT **ELEMENTS AND ACGIH TLV** METALLIC COATINGS OSHA PEL 10 mg/M for iron oxide fume 5 mg/H3 for Iron oxide fume Base Metal: Iron Balance Alloying Elements: Carbon .005/.60 None established None established (c) 5 mg/H3-dust 1 mg/H3-fume (c) 5 mg/H³ Hanganese .05/1.50 Phosphorus None for inorganic phosphates None for inorganic phosphates .15 max 13 mg/H³ as SO₂ 5 mg/H3 as SO2 Sulfur .05 max 10 mg/H³ Aluminum None established .10 max Metallic Coating: 10 mg/M3-Total ZnO dust 5 mg/M3-Respirable ZnO dust 6 fume 5 mg/m³ Zinc 8.5/9.9 10 mg/M³ Aluminum 0.04 max None established 0.5 mg/H3 0.5 mg/H³ Ant imony 0.02 max 0.05 mg/M3 Lead 0.02 max 10 mg/M3 for iron oxide fume 5 mg/M for tron oxide fume Iron 0.1/1.5(c) denotes "ceiling limit" which is not to be exceeded at any time Oil costing may be used; see Annex II.

NOTE: All commercial metals contain small amounts of various elements in addition to those specified. These small quantities, frequently referred to as "trace" or "residual" elements, generally originate in the raw materials used. Typical levels of commonly involved trace or residual elements that may be encountered in steel products are provided in Annex I so that their potential hazards may be considered.

III. PHYSICAL DATA

MELTING POINT BASE METAL: 2750° F

METALLIC COATING:

800-900°

APPEARANCE AND ODOR:

Metallic Gray, No Odor

♥. Fire and explosion Hazard Data

STEEL PRODUCTS IN THE SOLID STATE PRESENT NO FIRE OR EXPLOSION HAZARD.

. REACTIVITY DATA

Stable under normal conditions of use, storage, and transport: Will react with atrong acid to liberate hydrogen. At temperatures above the melting point of the coating, may liberate zinc fumes

VI. HEALTH HAZARD DATA	
NOTE: Steel products under normal conditions do not present an inhalation, ingostion or contact health hazard. However, operations, such as burning, welding, sawing, brazing, grinding, and possibly machining, esc., which results in elevating the temperature of the product to or about the method point or results in the generation of airborne particulates, may present health hazards.	
EFFECTS OF OVEREXPOSURE:	MAJOR EXPOSURE HAZARD
	INHALA- SKIN EYE CONTACT INGESTION
	ns of iron oxide fumes or dusts may lead to a tion of high concentrations of ferric oxide er development in workers exposed to
Manganese, Copper, Lead and/or Zinc in the	
	verexposure to airborne fumes and particulates, eathing is difficult or has stopped, administicated. Seek medical attention promptly.
Treat metal fume fever by bed rest, and ad	minister a pain and fever reducing medication.
VII. SPILL OR LEAK PROCEDURES	
NOT APPLICABLE TO STEEL IN THE SOLID STATE.	
VIII. SPECIAL PROTECTION INFORMATION	· · · · · · · · · · · · · · · · · · ·
RESPIRATORY: NIOSH/MSHA-approved dust and tume particulates. Appropriate respirator selection depend	respirators should be used to avoid excessive inhalation of on the magnitude of exposure.
SKiN: Protective gloves should be worn as required for welding	ng, burning or handling operations.
EYE: Use safety glasses or goggles as required for welding.	burning, sawing, brazing, grinding or machining operations.
VENTILATION: Local exhaust ventilation should be machining to prevent excessive dust or fume exposure.	provided when welding, burning, sawing, brazing, grinding or
OTHER PROTECTIVE EQUIPMENT: Depending upon the conditions of use and specific wo may be required to control expusures.	rk situations, additional protective equipment and/or clothing
IX. SPECIAL PRECAUTIONS	•
	RAGE: rating high concentrations of airborne particu- is necessary. Avoid breathing metal fumes and/
OTHER COMMENTS:	
No additional comments are believed to	be necessary for this product.