



Material Safety Data Sheet

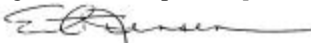
U.S. Department of Labor

May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910.1200. Standard must be consulted for specific requirements.

Occupational Safety and Health Administration
 (Non-Mandatory Form)
 Form Approved
 OMB No. 1218-0072

IDENTITY (As Used on Label and List) National Weld Plate Flange	Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that.
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Section I

<u>Importer's Name</u> Merit Manufacturing Corporation	<u>Emergency Telephone Number</u> +001-610-327-4000
<u>Address (Number, Street, City, State, and ZIP Code)</u> 319/350 Circle of Progress	<u>Telephone Number for Information</u> +001-610-327-4000 Fx:+001-610-970-9282 www.meritmfg.com
Pottstown, PA 19464-3811	<u>Date Prepared / Prepared By</u> February 1, 2001 / Erik T. Jensen, ejensen@meritmfg.com
United States of America	<u>Signature of Preparer (optional)</u> 

Section II - Hazard Ingredients/Identity Information

<u>Hazardous Components (Specific Chemical Identity; Common Name(s), C.A.S. #)</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>	<u>Other Limits Recommended</u>	<u>% (optional)</u>
<u>Base Metal</u>				
Iron #1309-37-1	10mg/M3 Oxide Fume	5mg/M3 Oxide Fume	None	98-99%
<u>Alloying Elements</u>				
Carbon #7440-44-0	None	None	None	0.18 %
Manganese #7439-96-5	5mg/M3*	5mg/M3* Dust 1mg/M3 Fume	None	0.55%
Silicon #7440-21-3	None	None	None	0.25%
Phosphorus #7723-14-0	None	None	None	0.035%
Sulphur #7704-34-9	13mg/M3 As SO₂	5mg/M3 As SO₂	None	0.040%
* Denotes "Ceiling Limit" which is not be exceeded at any time				
<u>Coatings</u>				
Light surface coating of rust preventative may be used. A non-metallic coating is normally applied to the product and is classified as "Protective Coating or Lubricants." The presence of this coating is not considered hazardous. Material Safety Data Sheets for these coatings are available upon request.				



Section III - Physical/Chemical Characteristics

<u>Boiling Point</u>	> 5000° F	<u>Specific Gravity (H₂O = 1)</u>	7.8-8.2 @60° F approx.
<u>Vapor Pressure (mm Hg.)</u>	N/A	<u>Melting Point</u>	2500° F approx.
<u>Vapor Density (AIR = 1)</u>	N/A	<u>Evaporation Rate (Butyl Acetate = 1)</u>	N/A
<u>Solubility in Water</u> Insoluble			
<u>Appearance and Odor</u> Solid, Silver Gray, and Odorless			

Section IV - Fire and Explosion Hazard Data

<u>Flash Point (Method Used)</u> Not applicable in solid state	<u>Flammable Limits</u> N/A	<u>LEL</u> N/A	<u>UEL</u> N/A
<u>Extinguishing Media</u> N/A			
<u>Special Fire Fighting Procedures</u> N/A			
<u>Unusual Fire and Explosion Hazards</u> N/A			

Section V - Reactivity Data

<u>Stability</u>	<u>Unstable</u>	No	<u>Conditions to Avoid</u> N/A
	<u>Stable</u>	Yes	
<u>Incompatibility (Materials to Avoid)</u> N/A			
<u>Hazardous Decomposition or Byproducts</u> N/A			
<u>Hazardous Polymerization</u>	<u>May Occur</u>	No	<u>Conditions to Avoid</u> N/A
	<u>Will Not Occur</u>	Yes	

Section VI - Health Hazard Data

<u>Route(s) of Entry:</u>	<u>Inhalation?</u> Yes via fumes	<u>Skin?</u> Yes	<u>Ingestion?</u> N/A
<u>Health Hazards (Acute and Chronic)</u> Prolonged inhalation of airborne fumes and particulates may cause respiratory difficulty leading to metal fume fever. Prolonged skin contact may result from contact with the coating of rust preventative.			
<u>Carcinogenicity:</u>	<u>NTP?</u> N/A	<u>IARC Monographs?</u> N/A	<u>OSHA Regulated?</u> N/A



<u>Signs and Symptoms of Exposure</u>
Respiratory and skin irritation.
<u>Medical Conditions</u> <u>Generally Aggravated by Exposure</u>
Prolonged inhalation of airborne fumes and particulates may cause respiratory difficulty leading to metal fume fever. Prolonged skin contact may result from contact with the coating of rust preventative.
<u>Emergency and First Aid Procedures</u>
For over exposure to airborne fumes and particulates, remove the exposed person to fresh air. If breathing is difficult or has stopped, administer artificial respiration or oxygen as indicated. Seek medical attention immediately. For skin irritation, wash the contaminated are with soap and water.

Section VII - Precautions for Safe Handling and Use

<u>Steps to Be Taken in Case Material is Released or Spilled</u>
N/A
<u>Waste Disposal Method</u>
N/A
<u>Precautions to Be taken in Handling and Storing</u>
Prolonged skin contact may result from contact with the coating of rust preventative.
<u>Other Precautions</u>
N/A

Section VIII - Control Measures

<u>Respiratory Protection (Specify Type)</u> A properly fitted, NIOSH approved, dust fume respirator should be worn when air contaminant levels exceed OSHA permissible exposure level (PEL's) or ACGIH threshold limit levels (TLV's). Respiratory protection should be selected and used in accordance with OSHA Respiratory Protection Standard (29 CFR 190.134) and other applicable regulations.		
<u>Ventilation</u> Recommended	<u>Local Exhaust</u> Reference Work/Hygienic Practices	<u>Special</u> N/A
	<u>Mechanical (General)</u> Reference Work/Hygienic Practices	<u>Other</u> N/A
<u>Protective Gloves</u> Recommended if prolonged contact is required.	<u>Eye Protection</u> A face shield is recommended during welding, grinding, machining, or torch cutting.	
<u>Other Protective Clothing or Equipment</u> Use appropriate protective clothing such as welder's apron and gloves when welding or torch cutting.		
<u>Work/Hygienic Practices</u> Adequate ventilation, such as described in the "Industrial Ventilation Manual" produced by the American Conference of Governmental Industrial Hygienists, should be used to maintain concentration of air contaminants below established air contaminant standards when performing operations such as welding, grinding, and machining.		