



319 Circle of Progress, Pottstown, Pennsylvania 19464-3811 USA
 Tel (610)676.0300 Fax (610)676.0383 AegisTechnologiesInc.com

Material Safety Data Sheet

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

U.S. Department of Labor

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



IDENTITY (As Used on Label and List)
Type 3F, 3G, & 3RG Whizweld Branchlet welding outlet fittings

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.

Section I

Manufacturer's Name Aegis Technologies, Inc.	Emergency Telephone Number +001.610.676.0300
Address (Number, Street, City, State, and ZIP Code) 319 Circle of Progress Dr	Telephone Number for Information 1.610.676.0300 www.aegistechnologiesinc.com
Pottstown, PA 19464-3811 USA	Date Prepared April 8, 2017
	Signature of Preparer (optional)

Section II - Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity; Common Name(s))	OSHA PEL	ACGIH TLV	Other Limits Recommended	% (optional)
Base Metal:				
Iron #1309-37-1 98-99%		10mg/m³	5mg/m³	none
		oxide fume	oxide fume	
Alloying Elements:				
Carbon #7440-44-0 0.18%		none	3.5mg/m³	none
			carbon black	
Manganese #7439-96-5 0.55%		5mg/m³*	5mg/m³* dust	none
			1mg/m³ fume	
Silicon #7440-21-3 0.25%		none	none	none
Phosphorus #7723-14-0 0.035%		none	none	none
Sulfur #7704-34-9 0.040%		13mg/m³	5mg/m³	none
		as SO₂	as SO₂	

Metallic Coatings:**

**Zinc #1314-13-2
0.050%**

5mg/m³ 10mg/m³dust none

5mg/m³fume

Other Coatings:

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.

*** Denotes "Ceiling Limit" which is not to be exceeded at any time.**

**** Galvanized product only.**

Section III - Physical/Chemical Characteristics

Boiling Point	>5000°F	Specific Gravity (H ₂ O = 1)	7.8-8.2 @60°F approx.
Vapor Pressure (mm Hg)	N/A	Melting Point	2500°F approx. base 900°F approx. coat**
Vapor Density (AIR = 1)	N/A	Evaporation Rate (Butyl Acetate = 1)	N/A

Solubility in Water **INSOLUBLE**

Appearance and Odor **SOLID, DARK GRAY, and ODORLESS**

Section IV - Fire and Explosion Hazard Data

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

(Reproduce locally)

OSHA 174, Sept. 1985

Section V - Reactivity Data

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

Section VI - Health Hazard Data

Route(s) of Entry:	Inhalation? N/A	Skin? Yes	Ingestion? N/A
Health Hazards (<i>Acute and Chronic</i>)			

Skin irritation may result from prolonged contact with the coating of rust preventative.

Carcinogenicity: NTP? **N/A** IARC Monographs? **N/A** OSHA Regulated? **N/A**

Signs and Symptoms of Exposure

Skin irritation

Medical Conditions
Generally Aggravated by Exposure

Skin irritation may result from prolonged contact with the coating of rust preventative.

Emergency and First Aid Procedures

For skin irritation, wash the contaminated area with mild soap and water.

Section VII - Precautions for Safe Handling and Use

Steps to Be Taken in Case Material is Released or Spilled **N/A**

Waste Disposal Method **N/A**

Precautions to Be taken in Handling and Storing

Skin irritation may result from prolonged contact with the coating of rust preventative.

Skin nicks and cuts may result from burrs after modifying the product length in the field.

Other Precautions **N/A**

Section VIII - Control Measures

Respiratory Protection (*Specify Type*) **N/A**

Ventilation	Local Exhaust Reference Work/Hygienic Practices	Special N/A
	Mechanical (<i>General</i>) Reference Work/Hygienic Practices	Other N/A

Protective Gloves
Recommended if prolonged contact and/or product length modification is required.

Eye Protection
Recommended

Other Protective Clothing or Equipment **N/A**

Work/Hygienic Practices **N/A**

* U.S.G.P.O.: 1986 - 491 - 529/45775