

Emergency & First Aid Procedures:

## **Safety Data Sheet**



Prevent waste from contaminating surrounding

## **Filler Metals and Welding Rods**

## Product Trade Name/Product Classification(s): High Quality Solid Stainless Welding Wires

Section 1: Identification	Section 2: Hazardous Materials			
Identity: High Quality Solid Stainless Welding Wires Revised: January 2011 Production Name: Tronic Fill Stainless Steel Supplier: Weldtronic International P/L , 42-46 Micro Circuit , Dandenong South Victoria, Australia 3175 Tel: 03 9702 9366 Website: www.weldtronic.com.au Gurgaon, Haryana Product Trade Name / Product Classification(s):	IMPORTANT: THE MATERIALS LISTERD ARE WHAT IS REASONABLY EXPECTED TO EXIST IN THE WHEN PRODUCT IS USED IN WELDING. THE TERM "HAZARDOUS" SHOULD BE INTERPRETED AS A TERM REQUIRED AND DEFINED IN OSHA HAZARD COMMUNICATION STANDARD (29 C.F.R. 1910.1200) AND IT DOES NOT NECESSARILY IMPLY THE EXISTENCE OF ANY HAZARD.			
316Lsi: WMSS316106, WMSS316108, WMSS316109, WMSS316506, WMSS316508, WMSS316509, WMSS316510, WMSS316512, WMSS3161508,	EXPOSURE LIMIT			
WMSS3161509, WMSS3161510, WMSS3161512, WMSS3161516. 3161: WTSS31610, WTSS31612, WTSS31616, WTSS31624, WTSS31632, WTSS31610.1, WTSS31612.1, WTSS31616.1, WTSS31624.1, WTSS31632.1. 308Lsi: WMSS3081509, WMSS3081512. 308L: WTSS30816, WTSS30824, WTSS30816.1, WTSS30824.1. 309Lsi: WMSS3091509, WMSS3091512. 309L: WTSS30916, WTSS30924, WTSS30916.1, WTSS30924.1.	INGREDIENT   (CAS No.)   TILV   PEL			
Section 3: Physical & Chemical Data				
These products shipped are non-hazardous, non-flammable, non-explosive and non-reactive.				
Section 4: Fire and Explosion Hazard Data	Occupational Safety and Health Administration, 29, C.F.R. 1910.1000     Permissible Exposure Limit (PEL).     American Conference of Governmental Industrial Hygienists (ACGIH) Threshold Limit Value (TLV[R]).     Not known; nuisance particulate concentration per ACGIH is 10mg/M³. (Nuisance)     These ingredients are covered under the reporting requirements of Section 313 of the Emergency Planning and Community Right to Know Act of 1986 and of CFR 372.  (A) Present in 308MO, 309MO, 316, 316L, 316LSi, 317, 317L, 904L, 419NiMo, 630, 16-8-2, 318, 320, 320LR     Present in 347, 347LSi, 318, 320, 320LR, 630, 409CB  OTHER ELEMENTS PRESENT IN ALL STAINLESS STEEL WIRES.			
Non-flammable: Welding arc and sparks can ignite combustibles. See Z-49.1 referenced in Section 7.  Section 5: Reactivity Data				
Section 5: Reactivity Data				
Hazardous Decomposition Products:  Welding fumes cannot be classified simply. Their composition and quantity are dependent upon the metal being welded, the process, procedures and electrodes used. Other conditions which also influence the composition and quantity of the fumes and gases to which workers may be exposed include: coatings on the metal being welded (such as paint, plating, or galvanizing), number of welds and volume of work area, quality and amount ventilation, position of welder's				
head with respect to the fume plume, as well as the presence of contaminants in the atmosphere (such as chlorinated hydrocarbon vapors from cleaning and degreasing activities). The primary route of entry of welding fumes and gases is by inhalation.	Section 7: Precautions for Safe Handling & Use/Applicable Control Measures			
When the electrode is consumed, the fume and gas decomposition products are different in percent and form from the ingredients listed in Section 2. Decomposition products include those originating from the volatilization, reaction, or oxidation of the materials shown in Section 2 plus those from base metal, coating, etc as noted above. These components are virtually always present as complex compounds and not as metals (Characterization of Arc Welding Fume: American Welding Society).	READ AND UNDERSTAND THE MANUFACTURER'S INSTRUCTIONS AND THE PRECAUTIONARY LABEL ON THIS PRODUCT. SEE AMERICAN NATIONAL STANDARD Z-49.1, SAFETY IN WELDING AND CUTTING, PUBLISHED BY THE AMERICAN WELDING SOCIETY, P.O. BOX 351040, MIAMI, PL 33135 AND OSHA PUBLICATION 2206 (29 C.F.R. 1910), U.S. GOVERNMENT PRINTING OFFICE, WASHINGTON, D.C. 20402 FOR MORE DETAIL ON MANY OF THE FOLLOWING:			
Reasonably expected fume constituents from these products would include: complex oxides of iron, chromium, nickel, manganese and silicon. Products containing molybdenum or columbium will also have complex oxides of these elements in their fumes. Cr III fume limits (0.5mg/M³) may be reached before general fume limit of 5mg/M³ is reached. Monitor fumes	Use enough ventilation, local exhaust at the arc, or both, to keep the furnes and gases below the TLV's in the worker's breathing zone and general area. Train the welder to keep			
for Cr III level. Gaseous reaction products may include carbon monoxide and carbon dioxide.  Ozone and nitrogen oxides may be formed by the radiation from the arc.	his head out of the fumes.			
One recommended way to determine the composition and quantity of fumes and gases to which workers are exposed is to take an air sample inside the welder's helmet, if worn, or in the worker's breathing zone. See ANSI/AWS F1.1, available from the American Welding	Use respirable fume respirator or air supplies Respiratory Protection:			
Society, P.O. Box 351040, Miami, FL, 33135.	where local exhaust or ventilation does not keep exposure below TLV.			
Section 6: Health Hazard Data  Threshold Limit Value:	Wear helmet or use face shield with filter lens. As a rule of thumb, start with a shade which is too dark to see the weld zone. Then go to the next lighter shade, which gives sufficient view			
The ACGIH recommended general limit for welding fume NOC (Not Otherwise Classified) is 5mg/m². The ACGIH 1984-65 preface states: "The TLV-TWA should be used as guides in the control of health hazards and should not be used as firm lines between safe and dangerous concentrations." See Section 5 for specific fume constituents, which may modify this TLV.	of the weld zone. Provide protective screens and flash goggles, if necessary, to shield others.			
Effects of Overexposure:  FUMES AND GASES can be dangerous to your health. Aggravation of pre-existing respiratory or allergic conditions may occur in some workers.	Wear head, hand and body protection, which help to prevent injury from radiation, sparks and electrical shock. See ANSI Z-49.1. At a minimum, this includes welder's gloves and a protective Clothing: protective face shield and may include arm			
SHORT-TERM (ACUTE) OVEREXPOSURE to welding fumes may result in discomfort such as: dizziness, nausea, or dryness or irritation of nose, throat, or eyes.	protectors, aprons, hats, shoulder protection, as well as dark substantial clothing. Train the welder not to touch live electrical parts and to			
LONG-TERM (CHRONIC) OVEREXPOSURE may lead to siderosis (iron deposits in the lung) and is believed by investigators to affect pulmonary function.	insulate himself from work and ground.			
ARC RAYS can injure eyes and burn skin.	Procedure for Cleanup of Spills or Not Applicable  Leaks:			
ELECTRIC SHOCK can kill. See Section 7.				

Call for medical Aid. Employ first aid techniques recommended by the American Red Cross.			American Red Cross.	Waste Disposal Method:	environment. Discard any product, residue, disposable container, or liner in an	
Carcinogenicity	NTP?	I ARC Monographs?	OSHA regulated?		environmentally acceptable manner, in full compliance with Federal, State and	
When present	Cr, Ni	Cr, Ni	Cr		Local regulations.	