

WELDTRONIC INTERNATIONAL P/L

SAFETYDATASHEET

For Welding Consumables and Related Products

Essentially similar to U.S Department of Labor Form OSHA-20

SECTIONI- IDENTIFICA	ATION					
Supplier Name: Telepho		Telepho	one No. Web		te.	
WELDTRONIC INTERNATIONAL P/L 03 970			9366	www.\	weldtronic.com.a	ι <u>U</u>
Address NO. 42-46 Micro C	Circuit, Dandenong	South,	Victoria, Australia	3175		
Product Type	-					
CAST IRON	ELECTRODES					
Trade Name WANI5525.1, WAN	NI5532.1, WANI5540.1,	,	AWS Classification	n	ENiFe-C1	
WANI5525.05, V	VANI5532.05, WANI9925	5.1,			Eni-C1	
WANI9932.1, W	ANI9940.1, WANI9925.0	5,				
WANI9932.05						
SECTIONII- HAZARDOUS COMPONENTS/IDENTITY INFORMATION						
Hazardous Components (specific	Chemical Identity):		CAS No	% By Weight	TVL(mg/m3)	
Titanium Dioxides			13463 –67 – 7	1-45	10	
2. Calcium Carbonate			1317- 65 – 3	1-10	10	
Calcium Fluoride			1454 - 23 - 5	1-10	2.5	
4. Iron			1332 - 58 - 7	Bal.	5	
5. Chromium			7440 - 47 - 3	11-32	0.05(Chromiu	m VI)
6. Nickel			7440 - 02 - 0	4-22	1.5	
7. Molybdenum (316L ty	pe only)		7439 - 98 - 7	2-3	10	
8. Manganese	, ,,		7439 - 96 - 5	0.5-2.5	0.2	
9. Copper			7440 – 50 – 8	0.75	0.12	
10.Silicon			60676 – 86 - 0	0.90	10	
SECTION III - PHYSICA	L/CHEMICAL C	HARA	CTERISTICS			
Boiling Point	N/A		Specific Gravity (F	H2O=1)	N/A	
Vapor Pressure (mm Hg)	N/A		Melting Point		N/A	
Vapor Density (AIR=1)	14/71		Evaporation Rate		1477	
rapor Boriotty (/ tirt=1)	N/A		(Butyl Acetate=1)		N/A	
Solubility in Water	N//	A	(2 did): / locations . /		14/7	
Appearance and Odor	· · · · · · · · · · · · · · · · · · ·		appearance.			
SECTION IV - FIRE AND						
(Continued On Back Side)	LAI LOOIOII I		DAIA			
	lammable Limits		LEL	UEI		
Used) N/A	N/A		N/A		N/A	
Extinguishing Media	Se	e below				
Special Fire Fighting Proces	dures Se	e below				
Unusual Fire and Explosion	n Hazards			5 (
Welding ARC and						
National Standard Z49.1 for fire prevention during the use of welding and allied procedures.						
SECTION V - REACTIV	TITUATA					
		_				
Incompatibility (Metals to A			<u>Vone</u>			
Hazardous Decomposition F	Products					
The composition and quality of welding	ng fumes and gases are	dependent	t upon the metal being w	elded, The proce	ess, procedure and ele	ctrodes

The composition and quality of welding fumes and gases are dependent upon the metal being welded, The process, procedure and electrodes used. Other conditions which also influence the composition and quantity of fumes and gases to which workers may be exposed include: coatings on metal being welded (such as paint, plating, or galvanizing), the number of welders and the volume of the worker area, the quality and amount of ventilation, the position of the 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.)

When the electrode is consumed, the fume and gas decomposition products generated are different in percent and form from the ingredients listed in Section II. Decomposition products of normal operation include those originating from the volatilization, reaction, or oxidation of the materials shown in Section II, plus those from the base metal and coating, etc., as noted above.

Reasonably expected fume constituents of this product would include: Primarily iron oxide and manganese oxides; secondarily complex oxides of chromium, potassium, silicon and sodium.

Maximum fume exposure quideline for this product (based on manganese content) is 0.5 milliograms per cubic meter

SECTION VI - HEALTH HAZARD DATA

Route(s) of Entry:

Inhalation, Skin, Ingestion

Health Hazards

Electric ARC-welding may create: Fumes and gases can be dangerous.

Arc rays can injure eyes and burn skin. Electric shock can kill.

Carcinogenicity

The state of California requires the following information:

Warning: This product contains chemicals known to the state of California to cause cancer.

Signs and Symptoms of Exposure

See below.

Medical Conditions from Exposure

Short term to Welding fumes-dizziness nausea, dryness & irritation of nose, eyes and throat, chest tightness, fever, allergic reaction, long term-siderosis, believed to affect pulmonary function. Nickel and Chromium compounds are required by Osha to be considered carcinogenic. Emergency and First Aid Procedures

Remove to fresh air, obtain medical attention. Employ first aid techniques recommended by AM. Red Cross.

SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

Spill and Leak Procedure

N/A

Waste and Disposal Method

Prevent waste from contaminating surrounding environment. Discard any product residue, disposable container or liner in environmentally acceptable manner, In full compliance with federal, state, and local regulations. Precautions to be Taken in Handling and Storing

None

Other Precautions

Use product in accordance with ANSI Standard Z49.1, Safety in welding and cutting available from AWS, 550 NW. Lejnue Rd., POB 351040, Miami, Fl33135 Phone 305-443-9353

SECTION VIII - CONTROL MEASURES

Respiratory Measures

Use restorable fume respiratory or air supplied respirator when in confined space or local exhaust does not keep exposure below recommended exposure limit.

Use enough local ventilation, and local exhaust at ARC to keep fumes and gases from workers breathing zone and general area. Train worker to keep head out of fumes.

Local Exhaust - Special Mechanical (General) - Other

Protective Gloves

See other protective equipment

Eve Protection

Wear helmet, face shield with filter lens, protective screens, flash goggles to shield others, start with shade too dark then go to lighter shade which gives sufficient view of weld zone.

Other protective Equipment

Hand, head, body protection to prevent injury form radiation, sparks and electrical shock. Work/Hygienic Practices

Do not touch live electrical parts and insulate from work and ground. For maximum safety: be certified for, and wear a respirator at all times when welding or brazing.