

## WELDTRONIC INTERNATIONAL P/L

# SAFETYDATASHEET

## **For Welding Consumables and Related Products**

Essentially similar t	o U.S Department of Labor F	orm OSHA-20
SECTIONI- IDENTIFICATION		
Supplier Name:	Telephone No.	Website.
WELDTRONIC INTERNATIONAL P/L		www.weldtronic.com.au
Address NO. 42-46 Micro Circuit, Dandenon	g South, Victoria, Australia	a 317 <u>5</u>
Product Type	-	
HARD FACING / CUTTING /	GOUGING ELECTRODES	8
Trade Name wahf35032, Wahf35040, Wahf35032.	05, AWS Classi	fication
WAHF70032, WAHF70040, WAHF7003	32.05,	
WAGR32, WAGR40, WACR32, WACR4	40.	
SECTIONII- HAZARDOUS COMPONEN	NTS/IDENTITY INFORM	IATION
Hazardous Components (specific Chemical Identity):	CAS No	% By Weight TVL(mg/m3)
1. Titanium Dioxides	13463 –67 – 7	1-45 10
2. Calcium Carbonate	1317- 65 – 3	1-10 10
3. Calcium Fluoride	1454 - 23 - 5	1-10 2.5
4. Iron	1332 - 58 - 7	Bal. 5
<ul><li>5. Chromium</li><li>6. Nickel</li><li>7. Molybdenum (316L type only)</li></ul>	7440 - 47 - 3	11-32 0.05(Chromium VI)
6. Nickel	7440 - 02 - 0	4-22 1.5
	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 - PHYSICAL/CHEMICAL (	CHARACTERISTICS	
Boiling Point N/A	Specific Gravity (I	H <sub>2</sub> O=1) N/A
Vapor Pressure (mm Hg) N/A	Melting Point	N/A
Vapor Density (AIR=1)	Evaporation Rate	
N/A	(Butyl Acetate=1)	N/A
Solubility in Water N		
Appearance and Odor Shine silver appearance.		
SECTION IV - FIRE AND EXPLOSION	HAZARD DATA	
(Continued On Back Side)		
	h e i	hie.
Flash Point (Method Used) Flammable Limits	LEL N/A	UEL
		N/A
	<u>ee below</u> ee below	
Unusual Fire and Explosion Hazards	ee below	
Welding ARC and sparks can ignite	e combustibles and flamm	ables. Refer to American
National Standard Z49.1 for fire prevention during the use of welding and allied procedures		
SECTION V - REACTIVITY DATA		
Incompatibility (Metals to Avoid)	None	

**Hazardous Decomposition Products** 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 milliorrams 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, <u>state</u>, <u>and local regulations</u>. 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.