

# ITEM: 6YU73 - Mig Welding Wire

PICK REQ: 1016089184

MATERIAL SAFETY DATA SHEET (MSDS)

MSDS: A8146

This MSDS should be attached or kept with the respective product with which it is associated.

##### MATERIAL SAFETY DATA SHEET - A8146 #####

Associated Grainger Item: 6YU73 - Mig Welding Wire

6YY11

MATERIAL SAFETY DATA SHEET

MSDS: # 259

LATEST REVISION: FEBRUARY, 2005

SELECTRODE INDUSTRIES, INC.

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

1.1 PRODUCT NAME:  
BARE WIRE FOR TIG AND MIG WELDING: 2161, 6006, 6076, 7070, 7072, AND 7073

1.2 MANUFACTURER:  
SELECTRODE INDUSTRIES, INC.  
230 BROADWAY  
HUNTINGTON STATION, NY 11746  
U.S.A.  
PHONE: 631-547-5470  
FAX: 631-547-5475  
E-MAIL: INFO@SELECTRODE.COM

1.3 EMERGENCY TELEPHONE NUMBER: 631-547-5470

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

PREPARATION:  
CORE WIRE: Mn<1%; Si<0,6%; C<0,1%; IRON BAL.

HAZARDOUS INGREDIENTS:  
IMPORTANT:  
THIS SECTION COVERS THE MATERIALS OF WHICH THE PRODUCTS ARE MANUFACTURED. THE FUMES AND GASES PRODUCED DURING NORMAL USE OF THIS PRODUCT ARE COVERED IN SECTION V. THE TERM "HAZARDOUS" IN "HAZARDOUS MATERIAL" SHOULD BE INTERPRETED AS A TERM REQUIRED AND DEFINED IN OSHA HAZARD COMMUNICATION STANDARD 29 CFR 1910-1200 AND IT DOES NOT NECESSARILY IMPLY THE EXISTENCE OF HAZARD. THE CHEMICALS OR COMPOUNDS REPORTABLE BY SECTION 313 OF SARA ARE MARKED BY THE SYMBOL #.

INGREDIENTS	CAS#	% RANGE	OSHA PEL MG/M3	ACGIH-TLV MG/M3
ALUMINUM	7429-90-5	0-.02	5	5
CARBON	1333-86-4	0-.08	3.5	3.5
COPPER	7440-50-8	0-.3	.10	.20
IRON	7439-89-6	BALANCE	10	5 (AS Fe2O3)
MANGANESE	7439-96-5	0-.50	1.0	1.0
PHOSPHORUS	7723-14-0	0-.035	.10	.10
SILICA AMPHOROUS	60676-86-0	0-.1	.10	.10
SULFUR DIOXIDE	7446-09-05	0-.04	13	5.2

INGREDIENTS	CARCINOGENICITY	R-PHASE
ALUMINUM	NO	
CARBON	NO	
COPPER	NO	
IRON	NO	
MANGANESE	NO	
PHOSPHORUS	NO	
SILICA AMPHOROUS	NO	
SULFUR DIOXIDE	NO	

## 3. HAZARD IDENTIFICATION

EFFECTS OF ACUTE EXPOSURE:  
ROUTE(S) OF ENTRY: INHALATION AND SKIN CONTACT.

EYE AND SKIN: WHEN WELDING, ARC RAYS CAN INJURE EYES AND BURN SKIN

INHALATION:  
EXPOSURE TO DUST AND WELDING FUMES MAY CAUSE IRRITATION TO UPPER RESPIRATORY TRACT. MAY CAUSE RESPIRATORY SENSITISATION IN SUSCEPTIBLE INDIVIDUALS. REASONABLE EXPECTED DECOMPOSITION PRODUCTS FROM NORMAL USE OF THESE PRODUCTS INCLUDE A COMPLEX OF THE OXIDES OF THE MATERIALS LISTED IN SECTION 2, AS WELL AS CARBON MONOXIDE, CARBON DIOXIDE, OZONE, AND NITROGEN OXIDES (REFER TO "CHARACTERIZATION OF ARC WELDING FUME" AVAILABLE FROM THE AMERICAN WELDING SOCIETY). THE TLV FOR MANGANESE (0.02 MG/M3) WILL BE REACHED BEFORE THE GENERAL LIMIT FOR WELDING FUMES OF 5 MG/M3 IS REACHED. MONITOR FUMES FOR MANGANESE LEVELS. THE ONLY WAY TO DETERMINE THE TRUE IDENTITY OF THE DECOMPOSITION PRODUCTS IS BY SAMPLING AND ANALYSIS. THE COMPOSITION AND QUANTITY OF THE FUMES AND GASES TO WHICH A WORKER MAY BE OVEREXPOSED CAN BE DETERMINED FROM A SAMPLE OBTAINED FROM INSIDE THE WELDER'S HELMET, IF WORN, OR IN THE WORKER'S BREATHING ZONE. SEE ANSI/AWS F1.1 "METHOD FOR SAMPLING AIRBORNE PARTICLES GENERATED BY WELDING AND ALLIED PROCESSES." AVAILABLE FROM THE AMERICAN WELDING SOCIETY.

INGESTION:  
AMOUNTS INGESTED INCIDENTAL TO INDUSTRIAL HANDLING ARE NOT LIKELY TO CAUSE

EFFECTS OF CHRONIC EXPOSURE:  
REFER TO SECTION 11 FOR SPECIFIC TOXICOLOGICAL INFORMATION.

## 4. FIRST AID MEASURES

INHALATION: REMOVE VICTIM TO FRESH AIR IF EFFECTS OCCUR.  
SKIN: WASH OFF WITH SOAP AND PLENTY OF WATER.  
EYES: IRRIGATE WITH WATER FOR SEVERAL MINUTES.  
INGESTION: RINSE MOUTH.  
NOTE TO PHYSICIAN: NO PARTICULAR ADVICE.

## 5. FIRE FIGHTING MEASURES

MEANS OF EXTINGUISHING: NO DANGER REQUIRING SPECIAL MEASURES.  
SPECIAL PROTECTIVE EQUIPMENT WHEN FIGHTING FIRE: NONE.

## 6. ACCIDENTAL RELEASE MEASURES

INDIVIDUAL PRECAUTIONS: AVOID DUST FORMATION/BREATHING DUST.  
ENVIRONMENT PROTECTION PRECAUTIONS: NO PARTICULAR INDICATIONS.  
CLEANING MEASURES: REMOVE SPOILED PRODUCT MECHANICALLY.

## 7. HANDLING AND STORAGE

7.1 HANDLING: WITH STANDARD TRANSPORTATION EQUIPMENT.  
7.2 STORAGE: STORE IN A DRY PLACE IN CLOSED PACKAGES.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

TECHNICAL MEASURES:  
USE ADEQUATE LOCAL EXHAUST FOR WELDING FUMES.  
AVOID GRINDING DUST INHALATION  
EXPOSURE LIMITS: SEE SECTION 2.  
PERSONAL PROTECTION:  
RESPIRATORY PROTECTION: USE AN AIR PURIFYING DUST RESPIRATOR.  
HANDS PROTECTION: WEAR APPROPRIATE GLOVES TO PREVENT SKIN CONTACT.  
EYES PROTECTION: WELDER'S HELMETS.  
SKIN PROTECTION: WEAR APPROPRIATE OVERALLS TO PREVENT SKIN OR BODY CONTACT.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: SOLID.  
ODOR: NONE  
pH: NON APPLICABLE  
MELTING POINT: 1830-2730 DEG. F, 1000-1500 DEG. C  
RELATIVE DENSITY: 5-8 G/CM3  
SOLUBILITY: INSOLUBLE IN WATER

## 10. STABILITY AND REACTIVITY

STABILITY:  
CONDITIONS TO AVOID: NOT APPLICABLE.  
MATERIALS TO AVOID: REACTS WITH ACIDS.  
HAZARDOUS DECOMPOSITION PRODUCTS: UNKNOWN.

## 11. TOXICOLOGICAL INFORMATION

EFFECTS OF ACUTE EXPOSURE:  
TOXICITY TO ANIMALS: UNKNOWN  
LOCAL EFFECTS: NOT APPLICABLE.  
INHALATION:  
NOT APPLICABLE FOR THE PRODUCT. FOR WELDING FUMES SEE SECTION 3.  
INGESTION: NOT APPLICABLE.  
CONTACT WITH SKIN: NO ADVERSE EFFECTS EXPECTED.  
CARCINOGENICITY:  
EFFECTS OF CHRONIC (LONG-TERM) OVEREXPOSURE TO AIR CONTAMINANTS MAY LEAD TO THEIR ACCUMULATION IN THE LUNGS, A CONDITION WHICH MAY BE SEEN AS DENSE AREAS ON CHEST X-RAYS. THE SEVERITY OF THE CHANGE IS PROPORTIONAL TO THE LENGTH OF EXPOSURE. THE CHANGES SEEN ARE NOT NECESSARILY ASSOCIATED WITH SYMPTOMS OR SIGNS OF REDUCED LUNG FUNCTION OR DISEASE. IN ADDITION, THE CHANGES ON X-RAYS MAY BE CAUSED BY NON-WORK FACTORS SUCH AS SMOKING, ETC. NICKEL AND CHROMIUM (IN SOME PRODUCTS) ARE CONSIDERED CARCINOGENIC. LONG TERM OVEREXPOSURE TO NICKEL FUMES MAY ALSO CAUSE PULMONARY FIBROSIS AND EDEMA. OVEREXPOSURE TO MANGANESE COMPOUNDS MAY AFFECT THE CENTRAL NERVOUS SYSTEM, SYMPTOMS OF WHICH ARE LANGUOR, SLEEPINESS, MUSCULAR WEAKNESS,