

715-051

# MATERIAL SAFETY DATA SHEET

Version Date 03/01/94

W1060 (RG45)

AGA Gas Co

Print Date 03/01/94

## SECTION 1

### PRODUCT IDENTIFICATION

COMPANY NAME WHO SENT MSDS .....  
COMPANY ADDRESS .....  
EMERGENCY PHONE NUMBER .....  
MSDS VERSION NUMBER .....  
TRADE NAME .....

HARRIS WELCO, DIV. OF J.W. HARRIS CO., INC.  
1051 YORK ROAD  
KINGS MOUNTAIN, NC 28086  
(800)-424-9300  
1  
W1060 (RG45)

FEB 18 1997

HAZARD RATING (HMIS) .....  
HMIS DESIGNATION KEY .....

NA  
NA

## SECTION 2

### HAZARDOUS COMPONENTS

MATERIAL	% BY WEIGHT	CAS NUMBER	ACGIH TLV (Mg/M3)	SEC 313
CARBON	(.50	1333-86-4	3.5MG/M3 CARBON BLACK	NA
MANGANESE	(2.50	7439-96-5	5MG/M3 MN & MN COMPOUNDS	NA
SILICON	(.50	7440-21-3	10 MG/M3 TOTAL DUST	NA
COPPER	(.50	7440-50-8	2 MG/M3	NA
MOLYBDENUM	(.75	7439-98-7	5 MG/M3	NA
IRON	BAL	7439-89-6	5MG/M3 Fe2O3 as Fe	NA

## SECTION 3

### PHYSICAL PROPERTIES

BOILING POINT .....  
MELTING POINT .....  
VAPOR PRESSURE .....  
VAPOR DENSITY (AIR = 1) .....  
SOLUBILITY IN WATER .....  
SPECIFIC GRAVITY .....  
EVAPORATION RATE .....  
APPEARANCE AND ODOR .....

NA  
NA  
NA  
NA  
NA  
NA  
NA  
COPPER COATED OR BARE SOLID STEEL WIRE OR RODS.

## SECTION 4

### FIRE AND EXPLOSION DATA

FLASH POINT .....  
EXTINGUISHING MEDIA .....  
SPECIAL PROCEDURES .....

NA  
NA  
NON-FLAMMABLE. WELDING ARC AND SPARKS CAN IGNITE COMBUSTIBLE & FLAMMABLE PRODUCTS. SEE ANSI Z49.1 "SAFETY IN WELDING AND CUTTING" FOR FIRE PREVENTION AND PROTECTION INFORMATION.

UNUSUAL HAZARDS .....

NA

## SECTION 5

### REACTIVITY DATA

STABILITY .....  
CONDITIONS TO AVOID .....  
HAZARDOUS POLYMERIZATION .....  
CONDITIONS TO AVOID .....  
INCOMPATIBILITY .....  
HAZARDOUS DECOMPOSITION PRODUCTS .....

STABLE  
NA  
WILL NOT OCCUR  
NA  
NA  
WELDING FUMES AND GASES CANNOT BE CLASSIFIED SIMPLY. COMPOSITION AND QUANTITY OF BOTH ARE DEPENDENT UPON METAL BEING WELDED, PROCESS, PROCEDURES, & ELECTRODES USED. WHEN THE ELECTRODE IS CONSUMED, THE FUME AND GAS DECOMPOSITION PRODUCTS GENERATED ARE DIFFERENT IN % AND FORM FROM 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 BASE METAL & COATING, AS NOTED ABOVE. REASONABLY EXPECTED FUME CONSTITUENTS OF THIS PRODUCT WOULD INCLUDE, PRIMARILY OXIDES OF IRON, SECONDARY - COMPLEX OXIDES OF SILICON, MANGANESE, COPPER, AND MOLYBDENUM. GASEOUS REACTION PRODUCTS MAY INCLUDE CARBON MONOXIDE AND CARBON DIOXIDE OZONE AND NITROGEN OXIDES MAY FORM BY RADIATION FROM THE ARC

## SECTION 6

### HEALTH HAZARD DATA

ROUTES OF ENTRY .....  
HEALTH HAZARDS .....

INHALATION  
FUMES AND GASES THROUGH INHALATION. SHORT TERM - DIZZINESS, NAUSEA, DRYNESS OR IRRITATION OF NOSE, THROAT OR EYES. LONG TERM - SIDEROSIS. ARC RAYS CAN INJURE EYES AND BURN SKIN. HEAT RAYS - BURN EYES. ELECTRIC SHOCK CAN KILL. NOISE CAN DAMAGE HEARING.

CARCINOGENICITY .....  
SIGNS & SYMPTOMS OF EXPOSURE .....  
MEDICAL CONDITIONS FROM EXPOSURE .....  
EMERGENCY & FIRST AID .....

NA  
SEE ABOVE  
SEE ABOVE  
CALL FOR MEDICAL AID. EMPLOY FIRST AID TECHNIQUES RECOMMENDED BY AM RED CROSS. IF BREATHING DIFFICULTY, GIVE OXYGEN. CALL A PHYSICIAN. ELECTRIC SHOCK - DISCONNECT EQUIPMENT. NOT BREATHING - ARTIFICIAL RESPIRATION. MOUTH-TO-MOUTH. NO PULSE - BEGIN HEART MASSAGE. CALL PHYSICIAN. ARC BURN - CALL PHYSICIAN

ADDITIONAL INFORMATION .....

## SECTION 7

### PRECAUTIONS FOR SAFE HANDLING AND USE

SPILL AND LEAK PROCEDURES .....  
WASTE AND DISPOSAL METHOD .....

NA  
DISCARD ANY PRODUCT, RESIDUE, DISPOSABLE CONTAINER OR LINER IN ANY ENVIRONMENTALLY ACCEPTABLE MANNER, IN FULL COMPLIANCE WITH FEDERAL, STATE, AND LOCAL REGULATIONS.

HANDLING AND STORING PRECAUTIONS .....  
OTHER PRECAUTIONS .....

NA  
NA

## SECTION 8

### CONTROL MEASURES

RESPIRATORY MEASURES .....

USE RESPIRABLE FUME RESPIRATOR OR AIR SUPPLIED RESPIRATOR WHEN WELDING IN CONFINED SPACE OR EXPOSURE IN NOT BELOW TLV.

VENTILATION .....

USE ENOUGH VENTILATION. LOCAL EXHAUST AT THE ARC. OR BOTH TO KEEP FUMES AND GASES BELOW TLV'S IN WORKERS BREATHING ZONE. TRAIN WELDER TO KEEP HEAD OUT OF FUMES

PROTECTIVE GLOVES .....  
EYE PROTECTION .....

YES  
HELMET OR FACE SHIELD WITH FILTER LENS. PROVIDE PROTECTIVE SCREENS AND FLASH GOGGLES TO SHIELD OTHERS

OTHER PROTECTIVE EQUIPMENT .....

WEAR HAND, HEAD, AND BODY PROTECTION TO PREVENT INJURY FROM RADIATION SPARKS AND ELECTRICAL SHOCK

WORK/HYGIENIC PRACTICES .....

TRAIN WELDER NOT TO TOUCH LIVE ELECTRICAL PARTS AND TO INSULATE HIMSELF FROM WORK AND GROUND.

## SECTION 9

### DISCLAIMER

THIS DATA IS BELIEVED TO BE ACCURATE. HARRIS WELCO MAKES NO WARRANTY TO AND DISCLAIMS ALL LIABILITY FROM RELIANCE.

## SECTION 10

### ADDITIONAL INFORMATION

NA - NOT APPLICABLE