***** MATERIAL SAFETY DATA SHEET *****

Version Date........... 09/08/10
Print Date............... 09/08/10

26 ALUMINUM WELDING FILLER ALLOY

SECTION 1  PRODUCT IDENTIFICATION

COMPANY NAME WHO SENT MSDS....... HARRIS PRODUCTS GROUP
COMPANY ADDRESS................... 4501 QUALITY PLACE
                                    MASON OHIO 45040
                                    (513) 754-2000
EMERGENCY PHONE NUMBER............. (800) 424-9300
MSDS VERSION NUMBER............... 2
TRADE NAME.......................... HARRIS 26- ALUMINUM WELDING FILLER ALLOY

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

SECTION 2  HAZARDOUS COMPONENTS

<table>
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<tr>
<th>MATERIAL</th>
<th>% BY WEIGHT</th>
<th>CAS NUMBER</th>
<th>OSHA PEL</th>
<th>ACGIH TLV (mg/m³)</th>
<th>SEC 313</th>
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<td>ALUMINUM</td>
<td>70-80</td>
<td>7429-90-5</td>
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<td>YBS</td>
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<td>SILICON</td>
<td>1-11</td>
<td>7440-03-1</td>
<td>3 AS SiO2</td>
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<td>7784-18-1</td>
<td>2.5 as F, 2 as Al</td>
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<td>SODIUM CHLORIDE</td>
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SECTION 3  PHYSICAL PROPERTIES

BOILING POINT.............. NA
MELTING POINT.............. NA
VAPOR PRESSURE............. NA
VAPOR DENSITY (AIR = 1).... NA
SOLUBILITY IN WATER........ NA
SPECIFIC GRAVITY........... NA
EVAPORATION RATE........... NA
APPEARANCE AND ODOR........ COATED METAL ROD. NO ODOR.

SECTION 4  FIRE AND EXPLOSION DATA

FLASH POINT................ NA
26 ALUMINUM WELDING FILLER ALLOY

SECTION 4 FIRE AND EXPLOSION DATA

EXTINGUISHING MEDIA.............. SEE BELOW
SPECIAL PROCEDURES.............. SEE BELOW
UNUSUAL HAZARDS.................. WELDING ARC AND SPARKS CAN IGNITE COMBUSTIBLES AND FLAMMABLES. REFER TO AMERICAN NATIONAL STANDARD Z49.1 FOR FIRE PREVENTION DURING THE USE OF WELDING AND ALLIED PROCEDURES

SECTION 5 REACTIVITY DATA

STABILITY......................... STABLE
CONDITIONS TO AVOID............. NONE UNLESS OTHERWISE SPECIFIED
HAZARDOUS POLYMERIZATION........ NA
INCOMPATABILITY.................. 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 VOLUME OF THE WORK AREA, THE QUALITY AND AMOUNT OF VENTILATION, THE POSITION OF WELDER'S HEAD WITH RESPECT TO FUME PLUME, AND THE PRESENCE OF CONTAMINANTS IN ATMOSPHERE (CHLORINATED HYDROCARBON VAPORS FROM CLEANING AND DEGREASING ACTIVITIES). WHEN ELECTRODE IS CONSUMED, THE FUME AND GAS DECOMPOSITION PRODUCTS GENERATED ARE DIFFERENT IN PERCENT AND FORM FROM INGREDIENTS IN SECTION 2. FUME AND GAS DECOMPOSITION PRODUCTS, AND NOT INGREDIENTS IN ELECTRODE, ARE IMPORTANT. CONCENTRATION OF GIVEN FUME OR GAS COMPONENT MAY DECREASE OR INCREASE BY MANY TIMES ORIGINAL CONCENTRATION. NEW COMPOUNDS IN ELECTRODE MAY FORM. DECOMPOSITION PRODUCTS OF NORMAL OPERATION INCLUDE THOSE ORIGINATING FROM VOLATILIZATION, REACTION, OR OXIDATION OF MATERIALS IN SECTION 2, PLUS THOSE FROM BASE METAL AND COATING, ETC., AS NOTED ABOVE. REASONABLY EXPECTED FUME CONSTITUENTS OF PRODUCT COULD INCLUDE PRIMARILY OXIDES OF IRON; SECONDARILY OXIDES OF CHROMIUM, NICKEL, MANGANESE, SILICON, AND MOLYBDENUM. PRESENT OSHA EXP. LIMITS FOR HEXAVALENT-CHROMIUM IS
26 ALUMINUM WELDING FILLER ALLOY

SECTION 5 REACTIVITY DATA CONT'D

.05 MG/M3 AND NICKEL 1MG/M3 WHICH WILL RESULT IN SIGNIFICANT REDUCTION FROM 5MG/M3 GENERAL FUME LEVEL. GASEOUS REACTION IN PRODUCTS MAY INCLUDE CARBON MONOXIDE AND CARBON DIOXIDE. OZONE AND NITROGEN OXIDES MAY BE FORMED BY THE RADIATION FROM ARC, IN ADDITION TO SHIELDING GASES LIKE ARGON AND HELIUM WHEN EMPLOYED. ONE RECOMMENDED WAY TO DETERMINE COMPOSITION AND QUANTITY OF FUMES AND GASES IS TO TAKE AIR SAMPLE FROM INSIDE WELDER'S HELMET IF WORN OR IN BREATHING ZONE. SEE AWS F1.1 AND AWS F1.2-1985, AVAILABLE FROM THE AMERICAN WELDING SOCIETY. SEE AWS PUBLICATION: "FUMES AND GASES IN THE WELDING ENVIRONMENT".

SECTION 6 HEALTH HAZARD DATA

ROUTES OF ENTRY .................. INHALATION, SKIN AND 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 ACGIH RECOMMENDED GENERAL LIMIT FOR WELDING FUME NOC IS 5 MG/M3. ACGIH 1984-85 PREFACE STATES: THEE TIV-TWA SHOU BE USED AS GUIDES IN CONTROL OF HEALTH HAZARDS & SHOULD NOT BE USED AS FIRM LINES BETWEEN CARCINOGENICITY CONT... SAFE AND DANGEROUS CONCENTRATIONS. SEE SECTION V FOR SPECIFIC FUME CONSTITUENTS WHICH MAY MODIFY THIS TLV.

SIGN & SYMPTOMS OF EXPOSURE .... CARCINOGENICITY CONT... SAFE AND DANGEROUS CONCENTRATIONS. SEE SECTION V FOR SPECIFIC FUME CONSTITUENTS WHICH MAY MODIFY THIS TLV.

MEDICAL CONDITIONS FROM EXPOSURE SHORT TERM TO WELDING FUMES-DIZZINESS, NAUSEA, DRYNESS & IRRITATION OF NOSE, EYES THROAT, CHEST TIGHTNESS, FEVER, ALLERGIC REACTION. LONG TERM-SIDEROSIS, BELIEVED TO AFFECT PULMONARY FUNCTION.

EMERGENCY & FIRST AID .......... CALL FOR MEDICAL AID. EMPLOY FIRST AID TECHNIQUES RECOMMENDED BY THE AMERICAN RED CROSS.

ADDITIONAL INFORMATION .......... NA
PRECAUTIONS FOR SAFE HANDLING AND USE

SPILL AND LEAK PROCEDURES........ NA

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.

HANDLING AND STORING PRECAUTIONS USE EXHAUST SYSTEM. MAKE SURE INHALED AIR DOES NOT CONTAIN FUME CONSTITUENTS ABOVE PERMISSIBLE EXPOSURE LEVELS. OTHER PRECAUTIONS FOR ADDITIONAL SAFETY INFORMATION ON WELDING AND CUTTING, SEE AMERICAN STANDARD Z49.1-1983, SAFETY IN WELDING AND CUTTING, AND THE WELDING HANDBOOK, VOL. 1, CHAPTER 9, SAFE PRACTICES IN WELDING AND CUTTING, BOTH AVAILABLE FROM AM WELDING SOCIETY INC., 550 N.W. LEJUNE RD., PO BOX 351040, MIAMI, FL 33135. PHONE 305-443-9353.

OTHER PRECAUTIONS................. READ AND UNDERSTAND MANUFACTURER'S INSTRUCTIONS AND THE PRECAUTIONARY LABEL ON THIS PRODUCT. SEE AM. NATIONAL STANDARD Z-49.1, SAFETY IN WELDING AND CUTTING BY THE AM. WELDING SOCIETY; AND OSHA PUBLICATION 2206 (29CFR 1910), U.S. GOVERNMENT PRINTING OFFICE FOR MORE DETAIL ON THE CONTROL MEASURES.

CONTROL MEASURES

RESPIRATORY MEASURES............. USE RESPIRABLE FUME RESPIRATORY OR AIR SUPPLIED RESPIRATOR WHEN IN CONFINED SPACE OR LOCAL EXHAUST DOES NOT KEEP EXPOSURE BELOW RECOMMENDED EXPOSURE LIMIT

VENTILATION...................... USE ENOUGH LOCAL VENTILATION, AND LOCAL EXHAUST AT ARC TO KEEP FUMES AND GASES FROM WORKER'S BREATHING ZONE AND GENERAL AREA. TRAIN WORKER TO KEEP HEAD OUT OF FUMES
SECTION 8

PROTECTIVE GLOVES.............. SEE OTHER PROTECTIVE EQUIPMENT
EYE PROTECTION.................. WEAR HELMET, FACE SHIELD WITH FILTER LENS,
OTHER PROTECTIVE EQUIPMENT..... PROTECTIVE SCREENS, FLASH GOGGLES TO
WORK/HYGIENIC PRACTICES........ SHIELD OTHERS. START WITH SHADE TOO DARK
AND INSULATE FROM WORK AND GROUND.
THEN GO TO LIGHTER SHADE WHICH GIVES SUFFI-
CIENT VIEW OF WELD ZONE.

SECTION 9

DISCLAIMER

THIS DATA IS BELIEVED TO BE ACCURATE. HARRIS WEL

SECTION 10

ADDITIONAL INFORMATION

NA = NOT APPLICABLE

SECTION 11

ADDITIONAL INFORMATION