



SECTION 5

REACTIVITY DATA - CONT'D

GALVANIZING), NUMBER OF WELDERS AND VOLUME OF WORK AREA AS PRESENCE OF CONTAMINANTS IN ATMOSPHERE. WHEN ELECTRODE IS CONSUMED FUME AND GAS DECOMPOSITION PRODUCTS GENERATED ARE DIFFERENT IN PERCENT AND FORM FROM INGREDNENTS LISTED IN SECTION II. FUME AND GAS DECOMP. PRODUCTS, AND NOT INGREDIENTS IN ELECTRODE, ARE IMPORTANT. THE CONCENTRATION OF GIVEN FUME OR GAS COMPONENT MAY DECREASE OR INCREASE BY MANY TIMES ORIGINAL CONCENTRATION IN ELECTRODE. NEW COMPOUNDS NOT IN ELECTRODE MAY FORM. DECOMP. PRODUCTS OF NORMAL OPERATION INCLUDE THOSE ORIGINATING FROM VOLATILIZATION, REACTION, OXIDATION OF MATERIALS IN SECTION II, PLUS THOSE FROM BASE METAL AND COATING. REASONABLY EXPECTED FUME CONSTITUENTS OF PRODUCT COULD INCLUDE PRIMARILY OXIDES OF IRON; SECONDARILY COMPLEX OXIDES OF MANGANESE & SILICON & ALUMINUM. GASEOUS REACTION PRODUCTS-CARBON MONOXIDE, CARBON DIOXDE. OZONE AND NITROGEN OXIDES MAY BE FORMED BY RADIATION FROM ARC, AND SHIELDING GASES WHEN EMPLOYED. ONE RECOMMENDED WAY TO DETERMINE COMPOSITION AND QUANTITY OF FUMES AND GASES TO WHICH WORKERS ARE EXPOSED IS TO TAKE AIR SAMPLE FROM INSIDE WELDERS HELMET OR IN WORKING ZONE. SEE AWS F1.1 AND AWS F1.2-1985, AVAILABLE FROM AM. WELDING SOCIETY. SEE AWS PUBLICATION: "FUMES AND GASES IN THE WELDING ENVIRONMENT".

SECTION 6

HEALTH HAZARD DATA

ROUTES OF ENTRY..... SEE BELOW  
HEALTH HAZARDS..... ELECTRIC ARC WELDING MAY CREATE THE FOLLOWING: FUMES AND GASES CAN BE DANGEROUS TO YOUR HEALTH. ARC RAYS CAN INJURE EYES AND BURN SKIN. ELECTRIC SHOCK CAN KILL.  
  
CARCINOGENICITY..... NA  
SIGNS & SYMPTOMS OF EXPOSURE..... SHORT TERM-DIZZINESS, NAUSEA, DRYNESS & IRRITATION OF NOSE, THROAT, EYES, CHEST TIGHTNESS, FEVER, ALLERGIC REACTION; OVER-EXPOSURE TO FUMES-SIDEROSIS POSSIBLE, MAY AFFECT PULMONARY FUNCTION.  
  
MEDICAL CONDITIONS FROM EXPOSURE  
EMERGENCY & FIRST AID..... SEE ABOVE  
REMOVE TO FRESH AIR, OBTAIN MEDICAL ATTENTION. EMPLOY FIRST AID TECHNIQUES RECOMMENDED BY AM. RED CROSS.  
  
ADDITIONAL INFORMATION.....

SECTION 7

PRECAUTIONS FOR SAFE HANDLING AND USE

SPILL AND LEAK PROCEDURES..... NA

SECTION 7 PRECAUTIONS FOR SAFE HANDLING AND USE - CONT'D

WASTE AND DISPOSAL METHOD..... PREVENT WASTE FROM CONTAMINATING SURROUND-  
 ING ENVIRONMENT. DISCARD PRODUCT RESIDUE,  
 DISPOSABLE CONTAINER OR LINER IN AN ENVIR-  
 ONMENTALLY ACCEPTABLE MANNER, IN FULL COM-  
 PLIANCE WITH FEDERAL, STATE, AND LOCAL  
 REGULATIONS.

HANDLING AND STORING PRECAUTIONS NA

OTHER PRECAUTIONS..... NA

SECTION 8 CONTROL MEASURES

RESPIRATORY MEASURES..... MAKE SURE INHALED AIR DOES NOT CONTAIN  
 FUME CONSTITUENTS ABOVE PERMISSIBLE EXPOS-  
 URE LEVELS.

VENTILATION..... SEE ABOVE

PROTECTIVE GLOVES..... SEE OTHER PROTECTIVE EQUIPMENT SECTION

EYE PROTECTION..... SEE OTHER PROTECTIVE EQUIPMENT SECTION

OTHER PROTECTIVE EQUIPMENT..... OTHER PRECAUTIONS FOR ADDITIONAL SAFETY  
 INFORMATION ON WELDING AND CUTTING, SEE AM.  
 STANDARD Z49.1-1983, SAFETY IN WELDING AND  
 CUTTING, WELDING HANDBOOK, VOL. 1, SAFE  
 PRACTICES IN WELDING AND CUTTING.

WORK/HYGIENIC PRACTICES..... NA

SECTION 9 DISCLAIMER

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

SECTION 10 ADDITIONAL INFORMATION

NA = NOT AVAILABLE