

CORAL

=====

SECTION 3

PHYSICAL PROPERTIES

CONT'D

APPEARANCE AND ODOR..... BARE RODS. NO ODOR.

=====

SECTION 4

FIRE AND EXPLOSION DATA

FLASH POINT..... NA
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
INCOMPATIBILITY..... NA
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 HYDRO-CARBON VAPORS FROM CLEANING AND DEGREASING ACTIVITIES). WHEN THE ROD 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

CORAL

=====

SECTION 5

REACTIVITY DATA

CONT'D

FUME CONSTITUENTS OF PRODUCT COULD INCLUDE
PRIMARILY OXIDES OF POTASSIUM BIFLUORIDE,
POTASSIUM FLUORIDE, ALUMINUM OXIDES,
SILICON OR MAGNESIUM OXIDES
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 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..... NA
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..... NA
SIGNS & SYMPTOMS OF EXPOSURE.... SEE BELOW.
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..... NICKEL AND CHROMIUM COMPOUNDS ARE REQUIRED
BY OSHA TO BE CONSIDERED CARCINOGENIC.
REMOVE TO FRESH AIR, OBTAIN MEDICAL ATTEN-
TION. EMPLOY FIRST AIR TECHNIQUES RECOM-
MENDED BY AM. RED CROSS.

ADDITIONAL INFORMATION..... NA

CORAL

=====

SECTION 6

HEALTH HAZARD DATA

CONT'D

=====

SECTION 7

PRECAUTIONS FOR SAFE HANDLING AND USE

SPILL AND LEAK PROCEDURES..... NA

WASTE AND DISPOSAL METHOD..... PREVENT WASTE FROM CONTAMINATING SURROUND-
ING ENVIRONMENT. DISCARD ANY PRODUCT
RESIDUE, DISPOSABLE CONTAINER OR LINER IN
ENVIROMNMENTALLY 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 PRE-
CAUTIONS 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. LEJNUE RD.,
OTHER PRECAUTIONS..... PO BOX 351040, MIAMI, FL 33135. PHONE
305-443-9353.
NA

=====

SECTION 8

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 EX-
HAUST AT ARC TO KEEP FUMES AND GASES FROM
WORKER'S BREATHING ZONE AND GENERAL AREA.
TRAIN WORKER TO KEEP HEAD OUT OF FUMES

PROTECTIVE GLOVES..... SEE OTHER PROTECTIVE EQUIPMENT

EYE 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 SUFF-
ICIENT VIEW OF WELD ZONE.

CORAL

=====

SECTION 8

CONTROL MEASURES

CONT'D

OTHER PROTECTIVE EQUIPMENT..... HAND, HEAD, BODY PROTECTION TO PREVENT IN-
JURY FROM RADIATION, SPARKS AND ELECTRICAL
SHOCK. DO NOT TOUCH LIVE ELECTRICAL PARTS
AND INSULATE FROM WORK AND GROUND.
WORK/HYGIENIC PRACTICES..... FOR MAXIMUM SAFETY: BE CERTIFIED FOR, AND
WEAR A RESPIRATOR AT ALL TIMES WHEN WELD-
ING OR BRAZING.

=====

SECTION 9

DISCLAIMER

THIS DATA IS BELIEVED TO BE ACCURATE. THERMACOTE

=====

SECTION 10

ADDITIONAL INFORMATION

NA = NOT APPLICABLE
THE TERM HAZARDOUS SHOULD BE INTERPRETED
AS A TERM REQUIRED AND DEFINED IN THE OSHA
HAZARD COMMUNICATION STANDARD (29 CFR 1910
-1200) AND DOES NOT NECESSARILY IMPLY THE
EXISTENCE OF ANY HAZARD. SOME OF THE PRO-
DUCTS LISTED MAY NOT CONTAIN ALL OF THE
INGREDIENTS SHOWN IN SECTION II. TYPICAL
ANALYSES CAN BE FOUND IN APPROPRIATE AWS
SPECIFICATION OR FROM YOUR