

3FH – FLAME HARD TOOL STEEL - TIG

MATERIAL SAFETY DATA SHEET

01/11/00

MSDS PROVIDED BY:
STOODY INDUSTRIAL AND WELDING SUPPLY, INC.
3316 National Ave., San Diego, Ca. 92113
Phone: (619) 234-6750
MILITARY EMERGENCY RESPONSE NUMBER 1-800-851-8061

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VERSION DATE 01/03/96 (REPRODUCED SIWS)

SECTION 1

PRODUCT IDENTIFICATION

COMPANY NAME WHO PROVIDED MSDS..... HARRIS WELCO. DIV. OF J.W. HARRIS CO., INC.
COMPANY ADDRESS..... 1051 YORK RD
KINGS MOUNTAIN, NC 28086
EMERGENCY PHONE NUMBER (800)-424-9300
MSDS VERSION NUMBER..... 2
TRADE NAME 3FH – FLAME HARD TOOL STEEL - TIG
HAZARD RATING (HMIS) HEALTH-3
FLAMMABILITY-0
REACTIVITY-0
OTHER-0
HMIS DESIGNATED KEY 4-SEVERE HAZARD
3-SERIOUS HAZARD
2-MODERATE HAZARD
1 -SLIGHT HAZARD
0--MINIMAL HAZARD

SECTION 2

HAZARDOUS COMPONENTS

<u>MATERIAL</u>	<u>% BY WEIGHT</u>	<u>CAS NUMBER</u>	<u>ACGIH TLV (Mg/M3)</u>	<u>SEC 313</u>
MANGANESE	0.5	7439-96-5	1	YES
SILCON	.1 – .2	7440-21-3	3 AS SI O2	NA
CHROMIUM	.94 – .98	7440-47-1	5 AS CHROM VI	YES
MOLYBDENUM	.1 – .2	7439-98-7	10	NA
IRON	95.0 – 97.0	7439-89-6	10 AS FE2 O3	NA

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..... SOLID WIRE OR ROD.

SECTION 4

FIRE AND PXPLOSION DATA

FLASH POINT..... SEE AMERICAN NATIONAL STANDARD Z.49.1
EXRINGUISHING MEDIA NA
SPECIAL PROCEDURES..... NA
UNUSUAL HAZARDS NA

SECTION 5

REACTIVITY DATA

STABILITY..... STABLE
CONDITIONS TO AVOID..... NA
HAZARDOUS POLYMERIZATION WILL NOT OCCUR
INCOMPATIBILITY NA
HAZARDOUS DECOMPOSITION PRODUCTS..... NA

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SECTION 6

HEALTH HAZARD DATA

ROUTES OF ENTRY	INHALATION
HEALTH HAZARDS	PULMONARY IRRITATION FROM DUST INHALATION
CARCINOGENICITY	THE STATE OF CALIFORNIA REQUIRES THE FOLLOWING INFORMATION WARNING: THIS PRODUCT CONTAINS A CHEMICAL KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER
SIGNS & SYMPTOMS OF EXPOSURE	OVEREXPOSURE TO WELDING FUMES MAY RESULT IN DISCOMFORT SUCH AS DIZZINESS NAUSEA, OR DRYNESS OR IRRITATION OF NOSE OR EYES.
MEDICAL CONDITIONS FROM EXPOSURE	COULD EFFECT PULMONARY FUNCTIONS
EMERGENCY & FIRST AID.....	REMOVE TO FRESH AIR.
ADDITIONAL INFORMATION	NA

SECTION 7

PRECAUTIONS FOR SAFE HANDLING AND USE

SPILL AND LEAK PROCEDURES	NA
WASTE AND DISPOSAL METHOD.....	FOLLOW FEDERAL, STATE, AND LOCAL REGULATIONS
HANDLING AND STORING PRECAUTIONS	NA
OTHER PRECAUTIONS.....	NORMAL HANDLING COLD. CAUTION WHEN HOT.

SECTION 6

CONTROL MEASURES

RESPIRATORY MEASURES	WELD FUME RESPIRATORY OR AIRLINE RESPIRATOR FOR CONFINED SPACES.
VENTILATION	IN SEMI-OPEN OR POOR VENTILATION SPACES USE LOCAL EXHAUST. MECHANICAL EXHAUST RECOMMENDED FOR POORLY NATURAL VENT SPACES
PROTECTIVE GLOVES.....	WELDER'S GLOVES.
EYE PROTECTION	FACE SHIELD & SAFETY GLASS #12
OTHER PROTECTIVE EQUIPMENT	WELDERS CLOTHING FOR PROTECTION AGAINST SPARKS AND HOT MATERIALS.
WORK/HYGIENIC PRACTICES	DISPOSE OF WELDING STUBS AND KEEP SAFETY LENS CLEAN. FOR MAXIMUM SAFETY BE CERTIFIED FOR AND WEAR A RESPIRATOR AT ALL TIMES WHEN WELDING AND OR BRAZING.

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
CARCINOGENICITY INFORMATION: CHROMIUM COMPOUNDS ARE
REQUIRED BY OSHA TO BE CONSIDERED CARCINOGENIC.