

4WH – WATER HARD TOOL STEEL

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

Version Date 01/03/96 (REPRODUCED SIWS) 4WH- WATER HARD TOOL STEEL

SECTION 1 PRODUCT IDENTIFICATION

COMPANY NAME WHO SENT MSDS HARRIS WELCO, DIV. OF J.W. HARRIS CO.. INC.
COMPANY ADDRESS..... 1051 YORK ROAD
..... KINGS MOUNTAIN, NC 28086
EMERGENCY PHONE NUMBER (800)-424-9300
MSDS VERSION NUMBER..... 2
TRADE NAME 4WH- WATER HARD TOOL STEEL

HAZARD RATING (HMIS) HEALTH – 3
..... FLAMMABILITY – 0
..... REACTIVITY – 0
..... OTHER – 0
HMIS DESIGNATION 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>
CHROMIUM	1.1 – 1.3	7440-47-3	1	YES
MOLYBDENUM	1.6 – 1.5	7439-98-7	10	NA
SILICON	.2 – .8	7440-21-3	5	NA
MANGANESE	.4 – .6	7439-96-5	1	YES
TUNGSTEN	NA	7440-33-7	5	NA
VANADIUM	3.4 – .4	1314-62-1	0.05	YES
TITANIUM DIOXIDE	NA	1317-65-7	10	NA
CALCIUM CARBONATE	NA	1317-65-3	15	NA
CALCIUM FLOURIDE	NA	14542-23-5	2.5	NA
POTASSIUM SILICATE	NA	1312-76-1	NA	NA
SODIUM SILICATE	NA	1344-09-8	NA	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 ROD FLUX COATED

SECTION 4 FIRE AND EXPLOSION DATA

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

4WH – WATER HARD TOOL STEEL

MATERIAL SAFETY DATA SHEET

SECTION 5

REACTIVITY DATA

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

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.....	NONE

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 8

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 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.