CS100 CS200 CS300 CS500 CS600 CS900 NICKEL-BASED ALLOY - METALLIZING

MATERIAL SAFETY DATA SHEET

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)

CS 100 CS 200 CS 300 CS 500 CS 600 CS CS 900 NICKEL-BASED ALLOY FOR LOW TEMPERATURE SPRAY METALLIZING

01/11/00

SECTION 1	PRODUCT IDENTIFICATION
	MARRIE GO DIN CELIN WARRESCO NA
COMPANY NAME WHO PROVIDED MSDS	
COMPANY ADDRESS	
	KINGS MOUNTAIN, NC 28086
EMERGENCY PHONE NUMBER	()
MSDS VERSION NUMBER	
TRADE NAME	
	ALLOY FOR LOW TEMPERATURE SPRAY METALLIZING
HAZARD RATING (HMIS)	
	FLAMMABILITY- 0
	REACTIVITY- 0
	OTHER - 2
HMIG DEGLONATED VEV	A GEVERE HAZARD
HMIS DESIGNATED KEY	
	3-SERIOUS HAZARD
	2-MODERATE HAZARD
	1 -SLIGHT HAZARD
	0MINIMAL HAZARD
SECTION 2	HAZARDOUS COMPONENTS
<u>MATERIAL</u>	% BY WEIGHT CAS NUMBER ACGIHTLV (Mg/M3) SEC 313
METAL DOMDED	-
METAL POWDER:	75 00 (DAI)
NICKEL	75-88 (BAL) 7440-02-0 1 YES
ALUMINUM	3-6 7429-90-5 10 YES
CARBON	0-1 7782-4-5 5 NA
CHROMIUM	6-129 7440-47-3 0.5 YES
SILCON	0-15 7440-21-3 15 NA
TUNGSTEN	7-10 7440-33-7 1 NA
BORON	1-3 7440-42-8 NA NA
IRON	2-11 (BAL) 7439-89-6 5 NA
COLBALT	0-1.5 7440-48-4 0.1 YES
SECTION 3	PHYSICAL PROPERTIES
DOLLING BOINT	NA.
BOILING POINT	
MELTING POINT	
VAPOR PRESSURE	
VAPOR DENSITY (AIR=1)	
SOLUBILITY IN WATER	
SPECIFIC GRAVITY	
EVAPORATION RATE	
	SPHERICAL GREY METALLIC POWDER, NO ODOR .
SECTION 4	FIRE AND PXPLOSION DATA
FLASH POINT	
EXRINGUISHING MEDIA	
SPECIAL PROCEDURES	
or zer zer in receptions	COMBUSTIBLES. SEE Z.49.1 REFERENCE IN SECTION 8
UNUSUAL HAZARDS	
	DE A CONTRUCTO DA TA
SECTION 5	REACTIVITY DATA
SECTION 5	
STABILITY	STABLE
STABILITYCONDITIONS TO AVOID	STABLE
TABILITY	STABLE AVOID BREATHING DUST DURING SPRAYING. WILL NOT OCCUR

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HAZARDOUS DECOMPOSITION PRODUCTS.....

WHEN FILLER METAL IS CONSUMED. THE FUME AND GAS DECOMPOSITION PRODUCTS GENERATED ARE DIFFERENT IN PERCENT AND FORM FROM THE INGREDIENTS LISTED IN SECTION 2. PLUS THOSE FROM THE BASE METAL AND COATINGS ETC. AS NOTED ON OTHER SIDE. REASONABLY EXPECTED FUME CONSTITUENTS OF THIS PRODUCT WOULD INCLUDE - NICKEL CARBONY. GASEOUS REACTION PRODUCTS MAY INCLUDE CARBON DIOXIDE. OZONE AND NITROGEN OXIDES MAY BE FORMED BY THE RADIATION FROM THE ARC . ONERECOMMENDED WAY TO DETERMINE THE COMPOSITION & QUANTITY OF FUMES AND GASES TO WHICH WORKERS ARE EXPOSED IS TO TAKE AN AIR SAMPLE FROM INSIDE THE WELDER'S HELMET, IF WORN OR IN THE WORKER'S BREATHING ZONE. SEE ANSI/AWS F1.1. ALSO AWS F1.3. THIS PRODUCES ADVISE ON THE CONTAMINANTS THAT MAY BE PRESENT IN SIGNIFICANT QUANTITIES: WHICH O THESE SHOULD BE ANALYZED: AND A STRATEGY TO PROVIDE VALID AND ACCURATE EXPOSURE DATA, BOTH ARE AVAILABLE FROM THE AMERICAN WELDING SOCIETY, P.O. BOX 351040, MIAMI, FLORIDA.

SECTION 6	HEALTH HAZARD DATA
ROUTES OF ENTRY	INHALATION, SKIN AND INGESTION.
HEALTH HAZARDS	FUMES AND GASES CAN BE DANGEROUS TO YOUR HEALTH. SHORT TER
	OVEREXPOSURE MAY RESULT IN DIZZINESS, NAUSEA, OR DRYNESS OR
	IRRITATION OF NOSE, THROAT, & EYES. ARC RAYS CAN INJURE EYES &
	BURN SKIN. ELECTRIC SHOCK CAN KILL. SEE SECTIONS 6 & 8. HEAT
	RAYS (INFRARED RADIATION FLAME OR HOT METAL) CAN INJURE EYES
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	SEE ABOVE
MEDICAL CONDITIONS FROM EXPOSURE	SEE ABOVE.
EMERGENCY & FIRST AID	
	RECOMMENDED BY THE AMERICAN RED CROSS.
ADDITIONAL INFORMATION	THRESHOLD LIMIT VALUE – THE ACGIH RECOMMENDED GENERAL
	LIMIT FOR WELDING FUME NOC IS 5 MG/M3. ACGIH-2981 PREFACE
	STATES THE TLV-TWA SHOULD BE USED AS GUIDES IN THE CONTROL OF
	HEALTH HAZARDS AND SHOULD NOT BE USED AS FINE LINES BETWEE
	SAFE AND DANGEROUS CONCENTRATIONS. SEE SECTION 6 FOR
	SPECIFIC FUME CONSTITUENTS WHICH MAY MODIFY THIS TLV OF 5
	MG/M3. TLV'S ARE FIGURES PUBLISHED BY THE AMERICAN
	CONFERENCE OF GOVERNMENT INDUSTRIAL HYGIENISTS.
	PUBLICATION OFFICE, P.O. BOX1937, CINCINNATI, OH 45201. UNITS MA
	BE MILLIGRAMS PER CUBIC METER (MG/M3), MILLIONS OF PARTICLES
	PER CUBIC FOOT OF AIR (MPPCF) OR PARTS PER MILLION OF VAPOR OR
	GAS IN AIR (PPM
SECTION 7	PRECAUTIONS FOR SAFF HANDLING AND USE
SPILL AND LEAK PROCEDURES	PREVENT WASTE FROM CONTAMINATING SURROUNDING
	ENVIRONMENT. DISCARD PRODUCT RESIDUE, DISPOSABLE CONTAINE
	OR LINER IN AN ENVIRONMENTALLY ACCEPTABLE MANNER, IN FULL
	COMPLIANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS.
WASTE AND DISPOSAL METHOD	
HANDLING AND STORING PRECAUTIONS	
OTHER PRECAUTIONS	
	MAKE SURE THAT INHALED AIR DOES NOT CONTAIN FUME
	CONSTITUENTS ABOVE PERMISSIBLE EXPOSURE LEVELS.
SECTION 6	CONTROL MEASURES
RESPIRATORY MEASURES	USE RESPIRABLE FUME RESPIRATOR OR AIR SUPPLIED RESPIRATOR WE
	WELDING, BRAZING, OR SOLDERING IN CONFINED SPACE OR WHERE
	LOCAL EXHAUST OF VENTILATION DOES NOT KEEP EXPOSURE BELOW
	TLV.

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VENTILATION	USE ENIUGH VENTILATION, LOCAL EXHAUST AT THE ARC (OR FLAMBOTH TO KEEP FUMES AND GASES FROM WORKER'S BREATHING ZON AND THE GENERAL AREA. TRAIN WELDER TO KEEP HIS HEAD OUT OF THE FUMES.
PROTECTIVE GLOVES	WELDER'S GLOVES RECOMMENDED.
EYE PROTECTION	WEAR HELMET OR USE FACE SHIELD WITH FILTER LENS. PROVIDE PROTECTIVE SCREENS AND FLASH GOGGLES, IF NECESSARY TO SHIE OTHERS.
OTHER PROTECTIVE EQUIPMENT	WEAR HAND, HEAD, AND BOTH PROTECTION WHICH HELP TO PREVEINJURY FROM RADIATION, SPARKS & ELECTRICAL SHOCK.
WORK/HYGIENIC PRACTICES	TRAIN WELDER NOT TO TOUCH LIVE ELECTRICAL PARTS & INSULAT HIMSELF FROM WORK AND GROUND. FOR MAXIMUM SAFETY: BE CERTIFIED FOR, AND WEAR A RESPIRATOR AT ALL TIMES WHEN WELDING OR BRAZING.
SECTION 9 DISCI	LAIMER

SECTION 10 ADDITIONAL INFORMATION

NA = NOT APPLICABLE

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

READ AND UNDERSTAND THE MANUFACTURER'S INSTRUCTIONS AND THE PRECAUTIONARY LABEL ON THE PRODUCT. SEE AMERICAN NATIONAL STANDARD Z49.1. "SAFETY IN WELDING AND CUTTING" PUBLISHED BE THE AMERICAN WELDING SOCIETY, P.O. BOX 351040, MIAMI, FL 33135 AND OSHA PUBLICATION 2206 (29CFR1910_. US GOVERNMENT PRINTING OFFICE, WASHINGTON, DC 20402 FOR MORE DETAILS ON SPECIAL PROTECTION INFORMATION.

CARCINOGENICITY INFORMATION: NICKEL, COBALT AND CHROMIUM COMPOUNDS ARE REQUIRED BY OSHA TO BE CONSIDERED TO BE CARCINOGENIC.