WELCO 55

MATERIAL SAFETY DATA SHEET

01/11/00

MSDS PROVIDED BY:

STOODY INDUSTRIAL AND WELDING SUPPLY, INC.

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Version Date 03/01/94 (REPRODUCED SIWS)	WELCO 55	
SECTION 1	PRODUCT IDENTIFICATION	
COMPANY NAME WHO SENT MSDS COMPANY ADDRESS EMERGENCY PHONE NUMBER MSDS VERSION NUMBER TRADE NAME	KINGS MOUNTAIN. NC 28086 (800)-424-9300	DDES .
HAZARD RATING (HMIS)		
HMIS DESIGNATION KEY	NA	
SECTION 2	HAZARDOUS COMPONENTS	
MATERIAL	% BY WEIGHT CAS NUMBER ACGIH TLV (M	g/M3) SEC 313
METALLIC MATERIAL, ALUMINUM (METAL) ** ALUMINUM (WELDING FUME) ** COBALT (DUST & FUME) ** COPPER (FUME) * COPPER (DUST & MIST) * IRON (IRON OXIDE FUME AS FE) MANGANESE (DUST & COMPOUNDS) * MANGANESE (FUME) * NICKEL (METAL & INSOL COMP.) * NICKEL (SOLUBLE COMPOUNDS) * SILICON (TOTAL DUST) TIN COATING MATERIAL: SODIUM SILICATE CRYOURTE (AS FLUORIDE) PETROLEUM COKE MAGNESITE SILICA SAND FELDSPAR	0-20 7429-90-5 10 0-20 7429-90-5 5 0-3 7440-48-4 0.05 50-100 7440-50-8 0.2 50-100 7440-50-8 1.0 0-6 7439-89-6 5 0-14 7439-96-5 5 0-14 7439-96-5 1 0-32 7440-02-0 1 0-32 7440-02-0 1 0-1 7440-21-3 10 0-1 7440-31-5 2 26.9 6834-92-0 NONE 51 15096-52-3 2.5 MG/M3 1.8 64743-05-1 NONE 5.1 S46-93-0 NONE 3.2 7631-86-9 0.1 MG/M3 NA NONE	NA N
SECTION 3	PHYSICAL PROPERTIES	
BOILING POINT	NA NA NA NA NA INSOLUBLE NA	OODOR.
SECTION 4	FIRE AND EXPLOSION DATA	
FLASH POINT EXTINGUISHING MEDIASPECIAL PROCEDURES	SEE BELOW	DUST MAY ME. DO NOT USE LOSIVE. PREVENT DDE ON CONTACT
UNUSUAL HAZARDS		

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SECTION 5	REACTIVITY DATA
STABILITY	STABLE UNDER NORMAL CONDITIONS.
CONDITIONS TO AVOID	MOLTEN METAL MAY REACT VIOLENTLY WITH H20. AVOID CONTACT
	OF FINELY DIVIDED MATERIAL WITH HEAT, OXIDIZERS, ACIDS,
	ALKALIES, MOLTEN LITHIUM, AND HALOGENATED COMPOUNDS
HAZARDOUS POLYMERIZATION	
CONDITIONS TO AVOID	
INCOMPATABILITY HAZARDOUS DECOMPOSITION PRODUCTS	
HAZARDOUS DECOMPOSITION FRODUCTS	METAL FUVIE.
SECTION 6	HEALTH HAZARD DATA
ROUTES OF ENTRY	. INHALATION, SKIN, INGESTION
HEALTH HAZARDS	. CHRONIC EXPOSURE TO ALUMINUM MAY CAUSE PULMONARY FIBROSIS, AND
	HAS BEEN IMPLICATED IN ALZHEIMER'S DISEASE. COBALT MAY CAUSE
	HYPERSENSITIZATION TYPE DERMATITIS. MAY BE ASSOCIATED WITH
	PNEUMOCONIOSIS. FUMES OF COPPER MAY CAUSE METAL FUME FEVER. HAIR
	AND SKIN DISCOLORATION, KERATINIZATION OF HANDS AND FEET, IRRITATION
	OF UPPER RESPIRATORY TRACT METALLIC TASTE IN MOUTH, AND NAUSEA.
	CHRONIC POISONING MAY CAUSE WILSON'S DISEASE. INHALATION OF IRON
	OXIDE FUMES MAY CAUSE PNEUMOCONIOSIS OR SIDEROSIS. CHRONIC
	MANGANESE POISONING MAY RESULT FROM INHALATION OF DUST AND FUMES.
	MANGANESE FUMES HAVE CAUSED FEVER AND CHILLS. NICKEL CONTACT CAN
	CAUSE "NICKEL ITCH' NICKEL COMPOUNDS MAY BE HUMAN CARCINOGENS.
	SILICON DIOXIDE, SILICA MAY CAUSE PULMONARY FIBROSIS AND SILICOSIS ON
	CHRONIC EXPOSURE. INHALATION OF INORGANIC TIN FUMES OR DUST MAY
	CAUSE BENIGN PNEUMOSCONIOSIS CALLED STANNOSIS.
CARCINOGENICITY	
SIGNS & SYMPTOMS OF EXPOSURE	
MEDICAL CONDITIONS FROM EXPOSURE	
EMERGENCY & FIRST AID	
	WASH WITH SOAP AND WATER. INHALATION - REMOVE TO FRESH AIR. CALL
	PHYSICIAN. INGESTION - SEEK MEDICAL ATTENTION IF LARGE QUANTITIES OF
ADDITIONAL INFORMATION	MATERIAL HAVE BEEN INGESTED NA
ADDITIONAL INFORMATION	, NA
SECTION 7	PRECAUTIONS FOR SAFE HANDLING AND USE
SPILL AND LEAK PROCEDURES	. IF LARGE QUANTITIES OF DUST ARE SPILLED, REMOVE BY VACUUMING OR WET
	SWEEPING TO PREVENT HEAVY CONCENTRATIONS OF AIRBORNE DUST. FOLLOW
	FEDERAL, STATE AND LOCAL REGULATIONS CONCERNING DISPOSAL OF WASTE
WASTE AND DISPOSAL METHOD	
	CLEANUP PERSONNEL SHOULD WEAR RESPIRATORS AND PROTECTIVE CLOTHING.
HANDLING AND STORING PRECAUTIONS	
	SOURCES OF IGNITION.
OTHER PRECAUTIONS	

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SECTION 8	CONTROL MEASURES
RESPIRATORY MEASURES	IF EXPOSURE ABOVE THE PEL OR TLV. NIOSH APPROVED RESPIRATOR FOR FUME
	OR DUST, DEPENDENT UPON SOURCE OF AIRBORNE CONTAMINANT,
VENTILATION	REQUIRED IF DUST OR FUME CREATED IN HANDLING OR WORKING ON THIS
	MATERIAL LOCAL EXHAUST REQUIRED FOR SAME. MECHANICAL EXHAUST AS
	ABOVE TO REDUCE AIRBORNE DUST OR FUME LEVELS.
PROTECTIVE GLOVES	REQUIRED FOR WELDING OPERATIONS. SELECT GLOVE APPROVED FOR SPECIFIC
	OPERATION.
EYE PROTECTION	REQUIRED FOR WELDING OPERATIONS. MINIMUM REQUIREMENTS INCLUDE
	SPECIAL EYE PROTECTION SUCH AS FACE SHIELDS FOR GRINDING AND WELDING
	HELMET DURING WELD OPERATIONS.
OTHER PROTECTIVE EQUIPMENT	USE LEATHER OR EQUAL PROTECTIVE GLOVES AND BODY CLOTHING WHILE
-	WELDING.
WORK/HYGIENIC PRACTICES	USE EAR MUFFS OR PLUGS IF NOISE LEVEL IS ABOVE 90 dBA.
SECTION 9	DISCLAIMER

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

SECTION 10 ADDITINAL INFORMATION

NA = NOT APPLICABLE

WARNING - THE USE OF THESE WELDING RODS MAY CREATE FUMES IN THE BREATHING ZONES OF WORKERS. BE CERTAIN TO EVALUATE THE LEVELS OF METAL FUMES FOR THESE WORKERS AND ALWAYS USE APPROVED (NIOSH) RESPIRATORS WHERE NECESSARY.

*THIS CONSTITUENT, A TOXIC CHEMICAL, MAKES THIS PRODUCT SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF TITLE III OF THE SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 AND 40 CRF PART 372. QUANTITY THRESHOLD FOR THIS CHEMICAL, BELOW WHICH REPORTING OF RELEASES IS NOT REQUIRED, IS 25,000 POUNDS FOR 1989 AND SUBSEQUENT YEARS.

**THESE CONSTITUENTS ARE REPORTABLE ONLY IF IN THE FORM OF DUST OR FUME.