

# 52 FLUX

## 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 03/01/94 (REPRODUCED SIWS)

52 FLUX

**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..... 1  
TRADE NAME..... 52 FLUX  
HAZARD RATING (HMIS)..... NA  
HMIS DESIGNATED KEY..... NA

**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>
SODIUM FLUORIDE	NA	7681-49-4	2.5 MG/M3 AS F	OSHA
ZINC CHLORIDE	NA	7646-95-7	1 MG/M3	ACGIH
TIN AS Sn	NA	7440-31-5	2 MG/M3	ACGIH
LEAD (SEE WARNING BELOW)	NA	7439-92-1	0.15 MG/M3	ACGIH
ZINC AS Zn	NA	7440-66-6	5 MG/M3	ACGIH
ZINC AS OXIDE	NA	1314-13-2	5 MG/M3	ACGIH
ZINC AMMONIUM CHLORIDE	NA	52628-25-8	1.68 MG/M3	ACGIH
IRON OXIDE	NA	1309-37-1	5 MG/M3	ACGIH

\*UPPER BOUND CONCENTRATION VALUE PER SARA III 372.

**SECTION 3****PHYSICAL PROPERTIES**

BOILING POINT..... NA  
MELTING POINT..... NA  
VAPOR PRESSURE..... NA  
VAPOR DENSITY (AIR=1)..... NA  
SOLUBILITY IN WATER..... SLIGHT  
SPECIFIC GRAVITY..... 3.4  
EVAPORATION RATE..... NA  
APPEARANCE AND ODOR..... FINE GRAY POWDER WITH NO CHARACTERISTIC ODOR.

**SECTION 4****FIRE AND PXPLOSION DATA**

FLASH POINT..... NA  
EXRINGUISHING MEDIA..... NA  
SPECIAL PROCEDURES..... FULL PROTECTIVE EQUIPMENT REQUIRED. MAY RELEASE ZINC OXIDE AND HC1 FUMES.  
UNUSUAL HAZARDS..... NONE

**SECTION 5****REACTIVITY DATA**

STABILITY..... STABLE  
CONDITIONS TO AVOID..... NA  
HAZARDOUS POLYMERIZATION..... WILL NOT OCCUR.  
INCOMPATIBILITY..... CYANIDE AND SULFIDES  
HAZARDOUS DECOMPOSITION PRODUCTS..... ZINC OXIDE

**SECTION 6****HEALTH HAZARD DATA**

ROUTES OF ENTRY..... SWALLOWING, INHALATION, SKIN CONTACT, EYE CONTACT.  
HEALTH HAZARDS..... SWALLOWING – MAY BE FATAL, DAMAGE TO DIGESTIVE SYSTEM, CORROSIVE TO MUCOUS MEMBRANES CONTAIN METAL. INHALATION – MAY BE FATAL. IRRITATION TO RESPIRATORY SYSTEM, COUGHING, SNEEZING, SKIN DISORDERS WILL BE AGGREGATED. SKIN – DERMATITIS, POSSIBLE CHEMICAL BURN, CORROSIVE TO SKIN, SKIN DISORDERS WILL BE AGGRAVATED. EYES– IRRITATION , TEARING, BURN OF EYE SURFACES, CORROSIVE TO EYES.

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CARCINOGENICITY.....	NA
SIGNS & SYMPTOMS OF EXPOSURE.....	SEE ABOVE.
MEDICAL CONDITIONS FROM EXPOSURE.....	SEE ABOVE.
EMERGENCY & FIRST AID.....	SWALLOWING – CALL PHYSICIAN OR POISON CENTER, ADVISE OF SECTION II. MAY BE FATAL! CORROSIVE TO MUCOUS MEMBRANES, CONTAIN METAL. SKIN – PROMPTLY FLUSH WITH WATER TO REMOVE ALL RESIDUE. IF RASH OR BURN DEVELOPS,CALL PHYSICIAN. MATERIAL IS CORRISIVE. INHALATION – REMOVE TO FRESH AIR, IF DUST OR FUMES INHALED, CALL PHYSICIA. EYES – FLUSH WITH WATER AT LEAST 15 MINUTES TO REMOVE RESIDUE, GET MEDICAL ATTENTION BLINDNESS CAN RESULT WITH EYE CONTACT.
ADDITIONAL INFORMATION.....	TARGET ORGAN: DANGER: CAUSES SEVER BURN TO SKIN, EYES AND RESPIRATORY SYSTEM. MAY BE FATAL IF SWALLOWED OR INHALED. CHRONIC EFFECTS: INHALATION OF DUST OR FUMES MAY CAUSE INJURY TO THE NOSE, THROAT OR LUNGS, LIVER OR KIDNEY EFFECTS, METAL SHAKES OR FEVER.  NOTE: CHRONIC FLUORIDE ABSORPTION CAN RESULT IN OSSEOUS FLUOROSIS, INCREASED RADIOGRAPHIC DENSITY OF BONES IN OSSEOUS FLUOSOSIS, INCREASED RADIOGRAPHIC DENSITY OF THE BONES AND MOTTLING OF TEETH. READ OSHA 29 C.F.R. 1910.1000, JULY 1, 1980 (STANDARD FOR FLUORIDES).  WARNING: LEAD POISONING HAZARD, READ AND COMPLY WITH OSHA 29 C.F.R. 1910.1025!

### SECTION 7

### PRECAUTIONS FOR SAFF HANDLING AND USE

SPILL AND LEAK PROCEDURES.....	AVOID GENERATION OF DUST. SWEEP UP AND CAREFULLY REMOVE SPILLAGE TO CHEMICAL WASTE AREA.
WASTE AND DISPOSAL METHOD.....	DISPOSE OF IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL REGULATIONS.
HANDLING AND STORING PRECAUTIONS.....	STORE FLUX UNDER AMBIENT CONDITIONS. KEEP UNDER EXTREMELY DRY AND CONTROLLED CONDITIONS. WASH THOROUGHLY AFTER HANDLING TO REMOVE ALL RESIDUE.
OTHER PRECAUTIONS.....	DO NOT BREATH FUMES, MAY BE FATAL! PROFESSIONALLY WASH CONTAMINATED CLOTHING BEFORE REUSE. MATERIAL WILL NATURALLY ABSORB MOISTURE AND CAKE SOLID. PRE-EXISTING LUNG DISORDERS WILL HAVE INCREASED TOXIC SUSCEPTIBILITY.

### SECTION 8

### CONTROL MEASURES

RESPIRATORY MEASURES.....	IF THE WORK STATION IS NOT VENTILATED TO REMOVE ALL DUSTS AND FUMES, USE NIOSH APPROVED MASK.
VENTILATION.....	MAINTAIN AIR FLOW AWAY FROM USER TO EXHAUST ALL DUSTS AND FUMES SO THAT THE TLV IS NEVER EXCEEDED. ADHERE TO REGULATIONS REGARDING EXHAUSTS.
PROTECTIVE GLOVES.....	CHEMICAL IMPERVIOUS.
EYE PROTECTION.....	CHEMICAL SAFETY GOGGLES.
OTHER PROTECTIVE EQUIPMENT.....	FULL PROTECTION EQUIPMENT AS IS USED IN SOLDERING OPERATIONS, SO AS TO PREVENT ANY CONTACT.
WORK/HYGIENIC PRACTICES.....	NA

### SECTION 9

### DISCLAIMER

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

### SECTION 10

### ADDITIONAL INFORMATION

TLV AND SOURCE REFERENCES: 1.39 MG/M3 PER TLV'S FOR MIXTURES IN ACGIH. OSHA PEL: NONE ESTABLISHED – MIXTURE  
IRON IXIDE – 10 MG/M3  
USE ACGIH FOR OTHER VALUES.  
NA = NOT APPLICABLE.