

(027007-0249 -WO081688-1854) DATE OF ISSUE 05/29/91 SUPERSEDES 10/18/90

SECTION I - GENERAL INFORMATION

 CHEMICAL NAME & SYNONYMS N/A TRADE NAME & SYNONYMS GRRR

 CHEMICAL FAMILY ALKALINE DETERGENT FORMULA X<--MIXTURE

 MANUFACTURERS NAME: CERTIFIED LABS, DIV. OF NCH CORP.

 ADDRESS (NUMBER, STREET, CITY, STATE & ZIP CODE)
 BOX 152170
 IRVING, TEXAS 75015

 PREPARED BY: RICHARD STOLLEY/T.S.CHEM. PRODUCT CODE NUMBER 1854 EMERGENCY TELEPHONE NUMBER 214-438-1381

SECTION II- HAZARDOUS INGREDIENTS

THE HAZARDS PRESENTED BELOW ARE THOSE OF THE INDIVIDUAL COMPONENTS.

CHEMICAL NAME (INGREDIENTS)	HAZARD	TLV	PEL	CAS#
SODIUM TRIPOLYPHOSPHATE*	EYE IRR.	NOT EST.1.	NOT EST.2.	13573-18-7
SODIUM XYLENE SULFONATE*	EYE IRR.	NOT EST.1.	NOT EST.2.	1300-72-7

SECTION IIA - NON-HAZARDOUS INGREDIENTS

NON-HAZARDOUS INGREDIENT NAMES AND CAS NUMBERS ARE PROTECTED UNDER NJ TRADE SECRET REGISTRY # 409363-5061P

GRRR

SECTION III - PHYSICAL DATA

PAGE : 02

BOILING PT. (FAHRENHEIT)	210 F	SPEC GRAVITY (H2O=1)	1.09-1.28
VAPOR PRESSURE (MM HG)	20	COLOR	GREEN
VAPOR DENSITY (AIR=1)	0.6	ODOR	LITTLE
PH @ 100%	12.0	CLARITY	TRANSPARENT
PERCENT VOLATILE BY VOLUME (%)	80	EVAPORATION RATE (BU AC = 1)	0.10
SOLUBILITY IN WATER	COMPLETE		
VISCOSITY	NON-VISCOUS		

SECTION IV - FIRE AND EXPLOSION HAZARD

FLASH POINT (METHOD USED) NON-FLAMT.C.C. FLAMMABLE LIMITS N/A LEL N/A UEL N/A
 EXTINGUISHING MEDIA "ALCOHOL" X<--FOAM X<--FOAM X<--CO2 DRY X<--CHEMICAL WATER X<--SPRAY <--OTHER
 SPECIAL FIRE FIGHTING PROCEDURES AS WITH ALL FIRES INVOLVING CHEMICALS, FIREFIGHTERS SHOULD WEAR FULL PROTECTIVE GEAR INCLUDING SCBA.

UNUSUAL FIRE & EXPLOSION HAZARDS

N/A

NFPA HAZARD RATING (0=INSIGNIFICANT;1=SLIGHT;2=MODERATE;3=HIGH;4=EXTREME):
 1 <--HEALTH 1 <--FLAMMABILITY 0 <--REACTIVITY <--SPECIAL

SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE :

NOT ESTABLISHED. SEE SECTION II

EFFECTS OF OVEREXPOSURE

ACUTE EXPOSURE FROM THIS ALKALINE MIXTURE MAY RESULT IN REDDENING OF THE - ACUTE - (SHORT TERM EXPOSURE)

 EYE, PRODUCING TEARING, IRRITATION AND DISCOMFORT. IRRITATING BY INHALATION AND BY MIST TO UPPER RESPIRATORY TRACT OR OTHER MUCOUS MEMBRANE AREAS. ACCIDENTAL INGESTION MAY CAUSE NAUSEA, DIARRHEA AND IRRITATION OF INTESTINAL LINING.

 - CHRONIC - (LONG TERM EXPOSURE)
 LONG-TERM MISUSE RESULTING FROM AIRBORNE CONCENTRATIONS OF MIST OR SPRAY MAY CAUSE DAMAGE TO UPPER RESPIRATORY TRACT. CHRONIC EFFECTS MAY RESULT IN IRRITATION OF SKIN TISSUE AND DERMATITIS. CHRONIC EYE EXPOSURE CAN LEAD TO IRRITATION.

 PRIMARY ROUTE OF ENTRY: X<-- INHALATION <-- INGESTION <-- ABSORPTION

 EMERGENCY & FIRST AID PROCEDURES

INHALATION :
 TYPICALLY NOT A HAZARD, BUT GET TO FRESH AIR AND TREAT SYMPTOMATICALLY.

 EYE CONTACT:
 OBJECT IS TO SEEK MEDICAL ATTENTION IMMEDIATELY. FLUSH WITH PLENTY OF WATER FOR 15 MINUTES HOLDING EYELIDS APART TO ENSURE FLUSHING OF THE ENTIRE SURFACE. SEEK MEDICAL ATTENTION IF IRRITATION PERSISTS.

 SKIN CONTACT:
 WASH WITH PLENTY OF WATER. SEEK MEDICAL ATTENTION IF ANY IRRITATION PERSISTS.

 INGESTION :
 IF SWALLOWED, DO NOT INDUCE VOMITING. GIVE LARGE QUANTITIES OF WATER. IF AVAILABLE, GIVE SEVERAL GLASSES OF FRUIT JUICE. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. SEEK MEDICAL ATTENTION IMMEDIATELY.

 NOTES TO PHYSICIAN :

SECTION VI - TOXICITY INFORMATION

 PRODUCT CONTAINS CHEMICAL LISTED AS CARCINOGEN OR POTENTIAL CARCINOGEN BY:

IARC	<--YES X<--NO	NTP	<--YES X<--NO	OSHA	<--YES X<--NO	ACGIH	<--YES X<--NO	OTHER	<--YES X<--NO
------	------------------	-----	------------------	------	------------------	-------	------------------	-------	------------------

SODIUM TRIPOLYPHOSPHATE

ORL-RAT LDBO: 6500 MG/KG 3.

IPR-RAT LDBO: 525 MG/KG 3.

ORL-MUS LDBO: 3210 MG/KG 3.

IPR-MUS LDBO: 700MG/KG 3.

SODIUM XYLENE SULFONATE

IPR-MUS-500MG/KG(DATA ON XYLENE SULFONIC ACID) 3.

SECTION VII - REACTIVITY DATA

STABILITY	X<--STABLE	<--UNSTABLE	CONDITIONS TO AVOID
-----------	------------	-------------	---------------------

N/A

 INCOMPATIBILITY (MATERIALS TO AVOID)

N/A

 HAZARDOUS DECOMPOSITION PRODUCTS

CARBON MONOXIDE AND OXIDES OF PHOSPHOROUS

HAZARDOUS	WILL NOT X <--OCCUR	MAY <--OCCUR	CONDITIONS TO AVOID
-----------	------------------------	-----------------	---------------------

POLYMERIZATION N/A

SECTION VIII - SPILL OR LEAK PROCEDURES

 STEPS TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED
 NEUTRALIZE WITH WATER AND FLUSH DOWN DRAIN.

 WASTE DISPOSAL METHOD
 DISPOSE OF IN ACCORDANCE WITH STATE, FEDERAL & LOCAL REGULATIONS CONCERNING POLLUTION.

 NEUTRALIZING AGENT

FLUSH WITH LARGE AMOUNTS OF WATER.

SECTION IX - SPECIAL PROTECTION INFORMATION

 REQUIRED VENTILATION
 GOOD INDUSTRIAL HYGIENE PRACTICE DICTATES THAT THE WORK AREAS SHOULD PROVIDE ADEQUATE VENTILATION OR CONTROLS TO MAINTAIN AND MEET OSHA REQUIREMENTS.

 RESPIRATORY PROTECTION

N/A

 PROTECTIVE GLOVES

RUBBER GLOVES IF REPEATED OR PROLONGED SKIN CONTACT IS ANTICIPATED.

 EYE PROTECTION
 CHEMICAL GOGGLES IF METHOD OF USE PRESENTS THE LIKELIHOOD OF EYE CONTACT.

 OTHER PROTECTION

N/A

STORAGE TEMPERATURE | INDOOR | HEATED | REFRIGERATED | OUTDOOR
 120 F. <--MAX | 50 F <--MIN | X | | | X

PRECAUTIONS TO BE TAKEN IN HANDLING & STORING
 STORE AT MODERATE TEMPERATURES.

OTHER PRECAUTIONS
 KEEP OUT OF REACH OF CHILDREN.
 READ ENTIRE LABEL BEFORE USING.

SECTION XI - REGULATORY INFORMATION

CHEMICAL NAME | C.A.S. NUMBER | UPPER % LIMIT

N/A

THOSE INGREDIENTS LISTED ABOVE ARE SUBJECT TO THE REPORTING REQUIREMENTS OF
 313 OF TITLE III OF THE SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF
 1986 AND 40 CFR PART 372.

IF UE (USE EXEMPTION) APPEARS UNDER UPPER % LIMIT, END USERS ARE EXEMPT
 FROM NOTIFICATION BECAUSE THE PRODUCT IS USED AND LABELED FOR ROUTINE
 JANITORIAL WORK, OR THE PRODUCT IS USED AND LABELED FOR FACILITY GROUNDS
 MAINTENANCE (SUCH AS FERTILIZERS AND HERBICIDES), OR THE PRODUCT IS USED AND
 LABELED FOR MAINTAINING MOTOR VEHICLES.

WARNING: THIS PRODUCT CONTAINS THE FOLLOWING CHEMICAL(S) KNOWN TO THE STATE OF
 CALIFORNIA TO CAUSE (1) CANCER OR (2) BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM:
 NONE

SECTION XII - TRANSPORTATION * (FOR FUTURE USE)

APPLICABLE REGULATIONS
 <--49 CFR <--IMCO <--TARIFF 6 D <--IATA <--MILITARY AIR (AFR 71-4)

SHIPPING NAME

HAZARD CLASS | ID NUMBER | REPORT QTY

LABELS | LIMITED QTY

UNIT CONTAINER

GRRR

(CONTINUED) SECTION XII - TRANSPORTATION * (FOR FUTURE USE) PAGE : 06

DOT SPS CONTAINER | NET EXPLOSIVE WT.

AEROSOL PROPELLANT(S)

SECTION XIII - REFERENCES

1. THRESHOLD LIMIT VALUES FOR CHEMICAL SUBSTANCES AND PHYSICAL AGENTS
 AND BIOLOGICAL EXPOSURE INDICES, ACGIH, 1990-1991.
 2. OSHA PEL
 3. DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS, 7TH EDITION,
 N. IRVING SAX AND RICHARD J. LEWIS, JR.
- * INGREDIENTS PERCENTAGES WITHHELD AS TRADE SECRET.
 MASS. TRADE SECRET NUMBER 99-172-003

THE INFORMATION CONTAINED HEREIN IS BASED ON DATA CONSIDERED
 ACCURATE IN LIGHT OF CURRENT FORMULATION. HOWEVER, NO WARRANTY
 IS EXPRESSED OR IMPLIED REGARDING THE ACCURACY OF THIS DATA
 OR THE RESULTS TO BE OBTAINED FROM THE USE THEREOF.

CERTIFIED LABS, DIV. OF NCH CORP. ASSUMES NO RESPONSIBILITY
 FOR PERSONAL INJURY OR PROPERTY DAMAGE CAUSED BY THE USE, STORAGE
 OR DISPOSAL OF THE PRODUCT IN A MANNER NOT RECOMMENDED ON THE
 PRODUCT LABEL. USERS ASSUME ALL RISKS ASSOCIATED WITH SUCH
 UNRECOMMENDED USE, STORAGE, OR DISPOSAL OF THE PRODUCT.

November 1990

MATERIAL SAFETY DATA SHEET

SIMILAR TO U.S. DEPT. OF LABOR FORM OSHA 20
 COMPLIES WITH OSHA COMMUNICATIONS STANDARD 29CFR 1910-1200

SECTION I (IDENTIFICATION)

MANUFACTURERS NAME: Hi-Alloy Weld Specialties
 4575 South Wayside Dr.
 Houston, TX. 77087

EMERGENCY PHONE
 713-645-3270

PRODUCT NAME: 300A

PRODUCT CLASSIFICATION: Chrome-Nickel Electrode

SECTION II (HAZARDOUS INGREDIENTS/IDENTITY INFORMATION)

IMPORTANT: This section covers the materials of which the products are manufactured. The fumes and gases produced during normal use of this product is covered in Section V. The term "Hazardous" in "Hazardous Material" should be interpreted as a term required and defined in OSHA Hazard Communication Standard 29CFR 1910-1200 and it does not necessarily imply the existence of hazard.

INGREDIENTS	CAS Number	PERCENT RANGE	OSHA PEL mg/M ³	ACGIH-TLV mg/M ³	CARCINOGENICITY
Chromium	7440-47-3	20 - 45	.04 Chromium VI	.05 Chromium VI	YES
Nickel	7440-02-0	5 - 20	1	1	YES
Manganese	7439-96-5	.1 - 4	5	5	NO
Iron	7439-89-6	50 - 80	5 as Fume	5 as Fume	NO
Titanium Dioxide	13463-67-7	1 - 11	10	10	NO
Silicon Dioxide	7631-86-9	1 - 11	5	3	NO
Calcium Fluoride	7789-75-5	1 - 11	2.5 as Fume	2.5 as Fume	NO

SECTION III (PHYSICAL DATA) -- Not Applicable

SECTION IV (FIRE AND EXPLOSION HAZARD DATA)

Non-Flammable - Welding arc and sparks can ignite combustibles. Refer to American National Standard Z49.1 for fire prevention during welding.

SECTION V (REACTIVITY DATA)

Welding fumes cannot be classified simply. The composition and quantity of both are dependent upon the metal being welded, the process, procedures and electrodes used. Other conditions which also influence the composition and quantity of the fumes and gases to which workers may be exposed include: coatings on the metal being welded (such as paint, plating or galvanization), number of welds and volume of work area, quality and amount of ventilation, position of weldor's head with respect to the fume plume, as well as the presence of contaminants in the atmosphere (such as chlorinated hydrocarbon vapors from cleaning and degreasing activities).

When the electrode is consumed, the fume and gas decomposition products are different in percent and form from the ingredients listed in Section II. Fume and gas decomposition products, not the ingredients in the electrode, are important. Decomposition products include those originating from the volatilization, reaction, or oxidation of the materials shown in Section II plus those from the base metal, coating, etc. as noted above. These components are virtually always present as complex compounds and not as metals (Characterization of Arc Welding Fumes: American Welding Society).