

UNITED STATES WELDING CORP -- 5794, TURBALOY 155 -- 3439-01-150-3250

===== Product Identification =====

Product ID:5794, TURBALOY 155

MSDS Date:05/01/1998

FSC:3439

NIIN:01-150-3250

Status Code:A

MSDS Number: CLKKW

=== Responsible Party ===

Company Name:UNITED STATES WELDING CORP

Address:3579 HWY 50 E SUITE 104

City:CARSON CITY

State:NV

ZIP:89701-2807

Country:US

Info Phone Num:775-883-7878

Emergen

cy Phone Num:775-883-7878

CAGE:58401

=== Contractor Identification ===

Company Name:UNITED STATES WELDING CORP

Address:3579 HWY 50 E SUITE 104

Box:City:CARSON CITY

State:NV

ZIP:89701-2807

Country:US

Phone:775-883-7878

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===== Composition/Information on Ingredients =====

Ingred Name:MANGANESE

CAS:7439-96-5

RTECS #:OO9275000

= Wt:2.

OSHA PEL:C5 MG/M3

ACGIH TLV:5 MG/M3

Ingred Name:SILICON

CAS:7440-21-3

RTECS #:VW0400000

= Wt:1.

OSHA PEL:15 MG/M3

ACGIH TLV:10 MG/M3

Ing

red Name:CHROMIUM
CAS:7440-47-3
RTECS #:GB4200000
= Wt:22.5
OSHA PEL:1 MG/M3
ACGIH TLV:0.5 MG/M3
EPA Rpt Qty:1 LB
DOT Rpt Qty:1 LB

Ingred Name:NICKEL
CAS:7440-02-0
RTECS #:QR5950000
= Wt:21.
OSHA PEL:1 MG/M3
EPA Rpt Qty:100 LBS
DOT Rpt Qty:100 LBS

Ingred Name:COBALT
CAS:7440-48-4
RTECS #:GF8750000
= Wt:21.
OSHA PEL:0.1 MG/M3
ACGIH TLV:0.02 MG/M3

Ingred Name:MOLYBDENUM
CAS:7439-98-7
RTECS #:QA4680000
= Wt:3.5
ACGIH TLV:10 MG/M3

Ingred Name:TUNGSTEN
CAS:7440-33-7
RTECS #:YO7175000
= Wt:3.
ACGI
H TLV:5 MG/M3
ACGIH STEL:10 MG/M3

Ingred Name:IRON
CAS:7439-89-6
RTECS #:NO4565500
Fraction by Wt: BALANCE

===== Hazards Identification =====

LD50 LC50 Mixture:NO DATA PROVIDED BY MANUFACTURER
Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES
Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:YES
Health Hazards Acute and Chronic:MAY IRRITATE EYES AND MUCOUS
MEMBRANES. INHALTION OF EXCESSIVE LEVELS CAN RESULT IN PNEUMONITIS,
HYPERSENSITIVITY

PNEUMONITIS, METALLIC OR SWEET TASTE IN THE MOUTH.

SKIN IRRITATION, CENTRAL NERVOUS SYSTEM EFFECTS, HEADACHES, CHANGES IN MOTOR ACTIVITY AND PSYCHOLOGICAL DISTURBANCES. KNOWN TO CAUSE DERMITITIS, PULMONARY ASTHMA, IRRITATION TO EYES, NOSE AND THROAT ACUTE EXPOSURE TO SPECIALTY WELDING ALLOYS OCCURS PRIMARILY FROM INHALTION OF DUST OR FUMES. SPECIFIC CONSTITUENTS OF THESE ALLOYS MAY CAUSE EFFECT DIRECTLY UPON THE SKIN OR EYES. CERTAIN CONDITIONS MAY ALSO BE HARMFUL IF SWALLOWED.

Explanation of Carcinogenicity:BERYLLIUM, CHROMIUM, COBALT-CHROMIUM AND ALLOYS OF NICKEL HAVE BEEN IDENTIFIED BY EITHER IARC, NTP OR OSHA AS CANCER CARCINOGENS.

Effects of Overexposure:MAY IRRITATE EYES AND MUCOUS MEMBRANES. INHALTION OF EXCESSIVE LEVELS CAN RESULT IN PNEUMONITIS, HYPERSENSITIVITY PNEUMONITIS, METALLIC OR SWEET TASTE IN THE MOUTH. SKIN IRRITATION, CENTRAL NERVOUS SYSTEM EFFECTS, HEADACHES, CHANGES IN MOTOR ACTIVITY AND PSYCHOLOGICAL DISTURBAN

CES.KNOWN TO CAUSE DERMITITIS, PULMONARY ASTHMA, IRRITATION TO EYES, NOSE AND THROAT.

Medical Cond Aggravated by Exposure:PRE-EXISTING CHRONIC SKIN, EYE AND RESPIRATORY DISORDERS IF PROLONGED OR REPEATED OVEREXPOSURE TO FUME AND DUST OCCUR.

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===== First Aid Measures =====

First Aid:INHALATION: MOVE PERSON TO FRESH AIR UNTIL RECOVERED. IF SEVERE RESPIRATORY IRRITATION PERSISTS CONSULT PHYSICIAN. SKIN: WASH WITH WATER AND MILD DETERGEN T. IF RASH DEVELOPS CONSULT PHYSICIAN. EYE: FLUSH THOROUGHLY WITH WATER. IF IRRITATION PERSISTS CONSULT PHYSICIAN. INGESTION: WHILE INGESTION OF LARGE ENOUGH QUANTITIES TO CAUSE HEALTH EFFECTS IS UNLIKELY, CONSULT A PHYSICIAN IF IT OCCURS.

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===== Fire Fighting Measures =====

Flash Point:NONFLAMMABLE

Extinguishing Media:NO DATA PROVIDED BY MANUFACTURER

Fire Fighting Procedures:NONFLAMMABLE, HOWEVER WELDING ARC AND SPARKS CAN IGNITE COMBUSTIB

LES AND FLAMMABLES. REFER TO ANSI Z49 1 FOR
FIRE PREVENTION DURING WELDING.

Unusual Fire/Explosion Hazard:NO DATA PROVIDED BY MANUFACTURER

===== Accidental Release Measures =====

Spill Release Procedures:THIS IS A SOLID METAL AS SHIPPED, NO POTENTIAL
FOR SPILLS OR LEAK. CHIPS OR PIECES CAN BE RECYCLED AS SCRAP.

Neutralizing Agent:NO DATA PROVIDED BY MANUFACTURER

===== Handling and Storage =====

Handling and Storage Precau

tions:MAINTAIN EXPOSURE LEVELS BELOW THE

ACCEPTABLE EXPOSURE LIMITS. USE INDUSTRIAL HYGIENE AIR MONITORING
TO ENSURE THAT YOYR USE OF THIS MATERIAL DOES NOT CREATE EXPOSURES
WHICH EXCEED THE RECOMMENDED EXP OSURE LIMITS. ALWAYS USE EXHAUST
VENTILATION IN WELDING OPERATIONS.

Other Precautions:REFER TO THE FOLLOWING SOURCES FOR IMPORTANT

ADDITIONAL INFORMATION: ANSI Z49.1, THE AMERICAN WELDING SOCIETY,
PO BOX 351040, MIAMI, FL 33135 AND/OR 29 CFR 1910, OSHA-DEPAT OF
LAB

OR, WASHINGTON, DC 20 210.

===== Exposure Controls/Personal Protection =====

Respiratory Protection:RESPIRATORY PROTECTION IS NECESSARY WHEN
EXPOSURE LIMITS

Supplemental Safety and Health

===== Physical/Chemical Properties =====

HCC:N1

Solubility in Water:INSOLUBLE

Appearance and Odor:SOLID; ODORLESS METAL

===== Stability and Reactivity Data =====

NO DATA PROVIDED BY MANUFACTURER

Stability Condition to Avoid:THIS M

MATERIAL IS NON-REACTIVE AS SHIPPED.

Hazardous Decomposition Products:WHEN WELDING OR USING ANY OTHER PROCESS WHICH RELEASES FUMES OR DUST, HAZARDOUS LEVELS OF DUST OR FUME OF THE CONSTITUENTS OF THESE ALLOYS COULD BE GENERATED.

Conditions to Avoid Polymerization:THIS MATERIAL IS NON-REACTIVE AS SHIPPED.

===== Toxicological Information =====

Toxicological Information:ALUMINUM: METAL DUST & OXIDE IS GENERALLY CONSIDERED A "NUISANCE" PARTICULATE. MAY IRRITATE THE EYES AND

MUCOUS MEMBRANES. EXCESSIVE CONCENTRATIONS HAVE BEEN KNOWN TO CAUSE FIBROSIS. BERYLLIUM: INHALATION OF EXCESSIVE LEVELS CAN RESULT IN ACUTE PNEUMONITIS. CHRONIC INHALATION ABOVE PERMISSABLE LEVELS CAN PRODUCE CHRONIC BERYLLIOSIS AND SYSTEMIC BERYLLIUM DISEASE.

CHROMIUM: FERROCHROME ALLOY EXPOSURES HAVE BEEN ASSOCIATED WITH LUNG CHANGES AND SKIN IRRITATION. TRIVALENT COMPOUNDS ARE CONSIDERED NON-TOXIC. HEXAVALENT CHROMIUM COMPOUNDS ARE CONSIDERED CARCINOGENIC. SEE "OTHER INFORMATION".

===== Ecological Information =====

Ecological:NO DATA PROVIDED BY MANUFACTURER

===== Disposal Considerations =====

Waste Disposal Methods:CHIPS OR PIECES CAN BE RECYCLED AS SCRAPS.

===== MSDS Transport Information =====

Transport Information:NO DATA PROVIDED BY MANUFACTURER

===== Regulatory Information =====

SARA Title

Section III Information:INDIVIDUAL FILLER METAL MAY CONTAIN TOXIC CHEMICALS SUBJECT TO THE REPORTING REQUIREMENTS UNDER SECTION 313 OF THE EMERGENCY PLANNING AND COMMUNITY RIGHT-TO-KNOW ACT OF 1986 AND 40 CFR 372. TOXIC CHEMICALS MAY INCLUDE CHROMIUM, BERYLLIUM, NICKEL, MANGANESE, COBALT, COPPER, TITANIUM OR ALUMINUM.

Federal Regulatory Information:NO DATA PROVIDED BY MANUFACTURER

State Regulatory Information:PROPOSITION 65: WARNING: THIS PRODUCT CONTAINS A CHEMICAL KNOWN TO THE

STATE OF CALIFORNIA TO CAUSE
CANCER.

===== Other Information =====

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