

UNITED STATES WELDING CORPORATION -- TURBALOY 718 -- 3439-01-003-1114

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

Product ID:TURBALOY 718

MSDS Date:01/06/1987

FSC:3439

NIIN:01-003-1114

MSDS Number: BKYQT

=== Responsible Party ===

Company Name:UNITED STATES WELDING CORPORATION

Address:20700 DEARBORN STREET

City:CHATSWORTH

State:CA

ZIP:91311

Country:US

Info Phone Num:(818) 341-2021

Emergency Phone Num:(81

8) 341-2021

Preparer's Name:JORGE JACOBS

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

CAGE:58401

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

Ingred Name:NICKEL (SARA III)

CAS:7440-02-0

RTECS #:QR5950000

Other REC Limits:1 MG/CUM

OSHA PEL:1 MG/M3

ACGIH TLV:1 MG/M3; 9192

Ingred Name:CHROMIUM (SARA III)

CAS:7440-47-3

RTECS #

:GB4200000
Fraction by Wt: 19%
OSHA PEL:1 MG/M3
ACGIH TLV:0.5 MG/M3; 9192
EPA Rpt Qty:1 LB
DOT Rpt Qty:1 LB

Ingred Name:MOLYBDENUM
CAS:7439-98-7
RTECS #:QA4680000
Fraction by Wt: 3%
OSHA PEL:15 MG/M3 TDUST
ACGIH TLV:10 MG/M3; 9293

Ingred Name:TITANIUM (DRY POWDER) (TI)
CAS:7440-32-6
RTECS #:XR1700000
Fraction by Wt: 0.9%
OSHA PEL:15 MG/CUM
ACGIH TLV:10 MG/CUM

Ingred Name:COLUMBIUM, NIOBIUM
CAS:7440-03-1
Fraction by Wt: 5.1%
Other REC Limits:5 MG/CUM

Ingred Name:TANTALUM
CAS:7440-25-7
RTECS #
:WW5505000
OSHA PEL:5 MG/M3
ACGIH TLV:5 MG/M3; DUST; 9192

Ingred Name:ALUMINUM (SARA III)
CAS:7429-90-5
RTECS #:BD0330000
Fraction by Wt: 0.5%
OSHA PEL:15MG/M3 DUST/5 FUME
ACGIH TLV:10MG/M3 DUST; 9192

Ingred Name:IRON
CAS:7439-89-6
RTECS #:NO4565500
Fraction by Wt: 18%

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

Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO
Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:NO
Health Hazards Acute and Chronic:INHALATION

: DISCOMFORT SUCH AS

DIZZINESS, NAUSEA, DRYING OR IRRITATION OF NOSE/THROAT, HEADACHE, BREATHING DIFFICULTY, FREQUENT COUGHING & CHEST PAINS. SOME TOXIC GASES MAY CAUSE PULMONARY EDEMA, ASPHYXIATION & EXCESSIVE EXPOSURE CAN BE FATAL. EYES: WATER. SKIN: IRRITATION.

Explanation of Carcinogenicity:SEE INGREDIENTS

Effects of Overexposure:INHALATION: MAY RESULT IN NEUROLOGICAL DAMAGE, LUNG FIBROSIS, PNEUMOCONIOSIS & OTHER LUNG DISEASES. EYES: WATERING. SKIN: IRRITATION.

Medical

Cond Aggravated by Exposure:IMPAIRED PULMONARY FUNCTION, AIRWAY DISEASES & CONDITIONS SUCH AS ASTHMA, EMPHYSEMA, BRONCHITIS.

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

First Aid:EYES: WASH W/LARGE AMOUNTS OF WATER. SKIN: WASH AREA W/SOAP OR MILD DETERGENT FOR 5 MINS. INHALATION: REMOVE TO FRESH AIR, ADMINISTER OXYGEN IF RESPIRATION IS DIFFICULT. IF NOT BREATHING BEGIN ARTIFICIAL RESPIRATION. IF PULSE NOT DETECTED BEGIN EXTERNAL HEART MESSAGE. OBTAIN MEDICAL ATTENTION IN ALL CASES.

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

Flash Point:NONE

Extinguishing Media:DRY CHEMICAL

Fire Fighting Procedures:SOLID FORM ISN'T COMBUSTIBLE UNDER NORMAL CONDITIONS, USE FIRE FIGHTING METHODS THAT ARE APPROPRIATE FOR THE SURROUNDING FIRE.

Unusual Fire/Explosion Hazard:MOLTEN METAL ALLOYS MAY EXPLODE ON CONTACT W/WATER, THEY MAY ALSO REACT VIOLENTLY W/WATER, RUST, CERTAIN METAL OXIDES, OXIDES OF COPPER, IRON, LEAD.

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

Spill Release Procedures:IN SOLID FORM THIS POSES NO SPECIAL CLEAN-UP PROBLEMS.

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

Handling and Storage Precautions:USE PRECAUTION & SAFETY IN WELDING & CUTTING.

Other Precautions:WARNING PROPERTIES OF SUBSTANCE AS A GAS, VAPOR, DUST, OR MIST ARE WAYS TO DETECT THIS SUBSTANCE.

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

Respiratory Protection:USE NIOSH APPROVED RESPIRATORS.
Ventilation:LOCAL EXHAUST VENTILATION TO KEEP