

ASTROLITE ALLOYS/DIV OF ASTRO METALLURGICAL -- 07488 TITANIUM AMS4951 0.063 INCHES OD -- 3439-00-994-5368

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

Product ID:07488 TITANIUM AMS4951 0.063 INCHES OD

MSDS Date:11/25/1985

FSC:3439

NIIN:00-994-5368

MSDS Number: BKYQS

=== Responsible Party ===

Company Name:ASTROLITE ALLOYS/DIV OF ASTRO METALLURGICAL

Address:709 VIA ALONDRA

City:CAMARILLO

State:CA

ZIP:93010-87

14

Country:US

Info Phone Num:(805) 484-3621

Emergency Phone Num:(805) 484-3621

CAGE:2R602

=== Contractor Identification ===

Company Name:ASTROLITE ALLOYS DIV OF ASTRO METALLUGICAL

Address:709 VIA ALONDRA

Box:City:CAMARILLO

State:CA

ZIP:93010-8714

Country:US

Phone:805-484-3621

CAGE:2R602

Company Name:SUPRA ALLOYS INC CA 93010-8052

CAGE:SUPRA

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

Ingred Name:TITANIUM (DRY POWDER) (TI)

CAS:7440-32-6

RTECS #:XR1700000

Fraction by

Wt: 46-99%
ACGIH TLV:10 MG/CUM TOTAL DUST

Ingred Name:ALUMINUM (SARA III)
CAS:7429-90-5
RTECS #:BD0330000
Fraction by Wt: 0-6%
OSHA PEL:15MG/M3 DUST/5 FUME
ACGIH TLV:10MG/M3 DUST; 9192

Ingred Name:VANADIUM (SARA III)
CAS:7440-62-2
RTECS #:YW1355000
Fraction by Wt: 0-10%
OSHA PEL:C,0.5 MG V2O5/M3 RD
ACGIH TLV:0.05 MG V2O5/M3;9293

Ingred Name:IRON
CAS:7439-89-6
RTECS #:NO4565500
Fraction by Wt: 0-48%
ACGIH TLV:5 MG/CUM

Ingred Name:MOLYBDENUM
CAS:7439-98-7
RTECS #:QA4680000
Fraction by Wt: 0-6%
OSHA PEL:15 MG/M3 TDUST
ACGIH TLV:10 MG/M3; 9293

Ingred Name:TIN
CAS:7440-31-5
RTECS #:XP7320000
Fraction by Wt: 0-5%
OSHA PEL:2 MG/M3
ACGIH TLV:2 MG/M3; 9192

Ingred Name:ZIRCONIUM
CAS:7440-67-7
RTECS #:ZH7070000
Fraction by Wt: 0-4%
OSHA PEL:5 MG/M3/10 STEL
ACGIH TLV:5 MG/M3/10 STEL;9192

Ingred Name:MANGANESE (SARA III)
CAS:7439-96-5
RTECS #:OO9275000
Fraction by Wt: 0-5%
OSHA PEL:(C) 5 MG/M3 DUST
ACGIH TLV:5 MG/M3 DUST 9293

Ingred Name:TANTALUM
CAS:7440-25-7
RTECS #:WW5505000
Fraction

by Wt: 50% TO PREVENT AN ELECTROSTATIC BUILD-UP.

Other Precautions:NO SMOKING IN AREA. METALLIC DUST OR FUMES MAY BE PRODUCED DURING WELDING, BURNING, GRINDING & POSSIBLY MACHINING. AVOID INHALATION OF PARTICULATES.

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

Respiratory Protection:NIOSH-MSHA APPROVED DUST/FUME, RESPIRATOR SHOULD BE USED TO AVOID EXCESSIVE INHALATION OF PARTICULTES WHEN EXPOSURE EXCEEDS TLV.

Ventilation:USE LOCAL EXHAUSE WHEN WELDING, BURNING, SAWING, BRAZING, GRINDING OR MACHINING WHEN EXPOSURE EXCEEDS TLV.

Eye Protection:SAFETY GLASSES, GOGGLES

Other Protective Equipment:PROTECTIVE EQUIPMENT SHOULD BE UTILIZED AS REQUIRED BY WELDING STANDARDS.

Supplemental Safety and Health

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

HCC:N1

Melt/Freeze Pt:M.P/F.P Text:1560-1840C

Appearance and Odor:GRAY METALLIC SOLID; ODORLESS

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

Stability I

ndicator/Materials to Avoid:YES

Stability Condition to Avoid:FOR IGNITABLE WASTE: HEAT, OPEN FLAME, & HUMIDITY