

GRANT MFG & ALLOYING INC -- PURE TIN (INGOT, ANODES, SHOT) -- 9650-00-250-8032

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

Product ID:PURE TIN (INGOT, ANODES, SHOT)

MSDS Date:01/01/1996

FSC:9650

NIIN:00-250-8032

MSDS Number: CBRXX

=== Responsible Party ===

Company Name:GRANT MFG & ALLOYING INC

Address:60 SCHOOLHOUSE RD

City:SOUDERTON

State:PA

ZIP:18964-2612

Country:US

Info Phone Num:215-723-6498

Emergency

Phone Num:215-723-0330

CAGE:2V705

=== Contractor Identification ===

Company Name:GRANT MFG & ALLOYING INC

Address:60 SCHOOLHOUSE RD

Box:City:SOUDERTON

State:PA

ZIP:18964-2612

Country:US

Phone:215-723-0330

CAGE:2V705

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

Ingred Name:TIN

CAS:7440-31-5

RTECS #:XP7320000

Fraction by Wt: 0-100%

Other REC Limits:NONE SPECIFIED

OSHA PEL:2 MG/M3

ACGIH TLV:2 MG/M3; 9596

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

LD50 LC50 Mixture:NOT GIVEN FOR PRODUCT

Routes of Entry: Inhalation:YES Skin:NO Ingestion:YES

Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:DUST OR FUMES MAY BE AN EYE IRRITANT.

EXCESSIVE INGESTION OF TIN OR INHALATION OF TIN FUMES MAY CAUSE
FEVER, NAUSEA, DIARRHEA AND STOMACH CRAMPING.

Explanation of Carcinogenicity:THIS COMPOUND CONTAINS NO INGREDIENTS AT
CONCENTRATIONS OF 0.1% OR GREATER THAT ARE CARCINOGENS OR SUSPECT
CARCINOGENS.

E

Effects of Overexposure:EYE IRRITATION, FEVER, NAUSEA, DIARRHEA,
STOMACH CRAMPING.

Medical Cond Aggravated by Exposure:NONE SPECIFIED BY MANUFACTURER.

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

First Aid:EYES: FLUSH W/WATER FOR 15 MINUTES. SKIN: WASH THOROUGHLY
W/SOAP & WATER. INGESTION: INDUCE VOMITING IF PERSON IS CONSCIOUS.
INHALATION: REMOVE PERSON TO FRESH AIR. OBTAIN MEDICAL ATTENTION IN
ALL CASES.

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

Flash Point:NOT FLAMMABLE

Lower Limits:NOT GIVEN

Upper Limits:NOT GIVEN

Extinguishing Media:CLASS D, DRY TYPE

Fire Fighting Procedures:USE NIOSH/MSHA APPROVED SELF-CONTAINED
BREATHING APPARATUS AND FULL PROTECTIVE CLOTHING IF INVOLVED IN
FIRE.

Unusual Fire/Explosion Hazard:FINELY DIVIDED TIN DUST MAY FORM
EXPLOSIVE MIXTURES WITH AIR.

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

Spill Release Procedures:COLLECT FOR DISPOSAL.

Neutralizing

Agent:NONE SPECIFIED BY MANUFACTURER.

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

Handling and Storage Precautions:STORE IN DRY CONDITIONS. AVOID CONTACT WITH STRONG ACIDS AND BASES.

Other Precautions:PERSONNEL SHOULD WASH THEIR HANDS PRIOR TO EATING, SMOKING, DRINKING OR WHEN APPLYING ANY TYPE OF COSMETICS.

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

Respiratory Protection:ONLY REQUIRED IF TLV'S ARE EXCEEDED. USE PROPER FUME MASK.

Ventilation:IF FUME/DUST IS BEING GENERATED, A MECHANICAL VENTILATION DEVICE MUST BE PROVIDED TO MAINTAIN LEVELS BELOW TLV'S.

Protective Gloves:AS REQUIRED.

Eye Protection:NONE SPECIFIED BY MANUFACTURER.

Other Protective Equipment:CHEMICAL RESISTANT CLOTHING AS NECESSARY TO PREVENT SKIN CONTACT. AN EMERGENCY EYEWASH AND SHOWER SHOULD BE AVAILABLE.

Work Hygienic Practices:WASH HANDS THOROUGHLY WITH SOAP AND WATER BEFORE EATING, DRINKING, SMOKING OR USING TOILET FACILITIES.

Supple

mental Safety and Health

AVOID ANY INHALATION OR INGESTION. DO NOT WEAR CONTAMINATED CLOTHING HOME OR USE COMPRESSED AIR TO BLOW OFF DUSTY CLOTHES.

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

HCC:N1

Boiling Pt:B.P. Text:NOT GIVEN

Melt/Freeze Pt:M.P/F.P Text:450F,232C

Decomp Temp:Decomp Text:NOT GIVEN

Vapor Pres:NOT GIVEN

Vapor Density:NOT GIVEN

Spec Gravity:7-11

Evaporation Rate & Reference:NOT GIVEN

Solubility in Water:NIL

Appearance and Odor:SILVER TO GRAY CO

LOR W/NO ODOR.
Percent Volatiles by Volume:0%

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

Stability Indicator/Materials to Avoid:YES
STRONG ACIDS, REDUCING AGENTS, HALOGENS AND OXIDIZERS
Stability Condition to Avoid:HIGH TEMPS. >750F
Hazardous Decomposition Products:OXIDATION FUMES

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

Waste Disposal Methods:DISPOSE OF IN ACCORDANCE W/LOCAL, STATE, &
FEDERAL REGULATIONS. RETURN TO SUPPLIER.

Disclaim
er (provided with this information by the compiling agencies):
This information is formulated for use by elements of the Department
of Defense. The United States of America in no manner whatsoever,
expressly or implied, warrants this information to be accurate and
disclaims all liability for its use. Any person utilizing this
document should seek competent professional advice to verify and
assume responsibility for the suitability of this information to their
particular situation.