

FISHER SCIENTIFIC CHEMICAL DIVISION -- TIN -- 6810-00-241-1186

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

Product ID:TIN

MSDS Date:11/09/1988

FSC:6810

NIIN:00-241-1186

MSDS Number: BHCMW

=== Responsible Party ===

Company Name:FISHER SCIENTIFIC CHEMICAL DIVISION

Address:1 REAGENT LANE

City:FAIR LAWN

State:NJ

ZIP:07410

Info Phone Num:201-796-7100

Emergency Phone Num:201-796-7523

Preparer's Name:GASTON L. PI

LLORI

CAGE:1B464

=== Contractor Identification ===

Company Name:FISHER SCIENTIFIC CO. CHEMICAL MFG DIV

Address:1 REAGENT LANE

Box:City:FAIRLAWN

State:NJ

ZIP:07410-2802

Country:US

Phone:201-796-7100

CAGE:1B464

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

Ingred Name:TIN

CAS:7440-31-5

RTECS #:XP7320000

Fraction by Wt: 100%

OSHA PEL:2 MG/M3

ACGIH TLV:2 MG/M3; 9192

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

Routes of Entry: Inhalation:YES Skin:

NO Ingestion:YES

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

Health Hazards Acute and Chronic:ACUTE: INHALE- RESPIRATORY IRRITATION, FLU-LIKE SYMPTOMS. MAY CAUSE IRRITATION TO EYES AND SKIN. INGEST- AT HIGH LEVELS OF CONCENTRATION; ABDOMINAL PAIN, NAUSEA, VOMITING, GASTRIC IRRITATION. CHRONIC: LOSS OF WEIGHT, CONSTIPATION. EYE- CONJUNCTIVITIS. SKIN- DERMATITIS. INHALE- BENIGN PNEUMOCONIOSIS W/OUT FIBROSIS.

Explanation of Carcinogenicity:NONE OF THE CHEMICALS IN THIS PRODUCT IS

LISTED BY IARC, NTP OR OSHA AS A CARCINOGEN.

Effects of Overexposure:THIRST,A SWEET METALLIC TASTE IN MOUTH, COUGHING AND DRYNESS OF MOUTH. SKIN IRRITATION. EYE- MODERATE IRRITATION. GASTRIC IRRITATION AND DIARRHEA.

Medical Cond Aggravated by Exposure:PERSONS WITH A HISTORY OF SKIN AND RESPIRATORY DISORDERS MAY BE AT INCREASED RISK FROM EXPOSURE.

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

First Aid:INHALATION: REMOVE SUBJECT TO FRESH AIR.

EYE: FLUSH WITH

PLENTY OF WATER FOR 15 MINUTES. GET IMMEDIATE MEDICAL ATTENTION.

SKIN: WASH WITH SOAP AND WATER. INGESTION: DO NOT INDUCE VOMITING. GET IMMEDIATE MEDICAL ATTENTION.

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

Autoignition Temp:Autoignition Temp Text:806F

Lower Limits:.19

Extinguishing Media:USE DRY SAND, DOLOMITE, GRAPHITE, SODIUM CHLORIDE, SODA ASH, OR APPROPRIATE METAL-EXTINGUISHING POWDER. DON'T USE WATER.

Fire Fighting Procedure

s:MOVE CONTAINER FROM FIRE AREA IF POSSIBLE.

COOL CONTAINERS EXPOSED TO FLAME WITH WATER FROM SIDE UNTIL WELL AFTER FIRE IS OUT.

Unusual Fire/Explosion Hazard:CONTAINERS MAY BURST WHEN EXPOSED TO HEAT OF FIRE. EXTINGUISH USING AGENT FOR TYPE OF FIRE. AVOID BREATHING FUMES FROM BURNING MATERIAL.

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

Spill Release Procedures:FOR LARGE SPILLS, SWEEP UP WITH A MINIMUM OF DUSTING AND PLACE ONTO SUITABLE, CLEAN, DRY

CONTAINERS FOR

RECLAMATION OR LATER DISPOSAL. RESIDUE SHOULD BE CLEANED UP USING A HIGH-EFFICIENCY PARTICULATE FILTER VACUUM.

Neutralizing Agent:NONE APPLICABLE FOR THIS MATERIAL

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

Handling and Storage Precautions:STORE AWAY FORM INCOMPATIBLE SUBSTANCES. AVOID DISPERSION OF DUST IN AIR. FINELY DIVIDED PARTICLES, DUST OR FUMES MAY BE A SLIGHT FIRE HAZARD.

Other Precautions:KEEP AWAY FROM SPARKS OR IGNITION SOURCE S.

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

Respiratory Protection:IF VENTILATION DOES NOT MAINTAIN INHALATION EXPOSURES BELOW PEL (TLV), USE NIOSH/MSHA APPROVED RESPIRATOR AS PER CURRENT 29 CFR 1910.134, INSTRUCTIONS/WARNINGS AND NIOSH-RESPIRATOR SELECTION.

Ventilation:MECHANICAL (GENERAL) VENTILATION IS REQUIRED. LOCAL EXHAUST MAY BE REQUIRED IF WORK AREA IS NOT VENTED.

Protective Gloves:RUBBER

Eye Protection:CHEMICAL SAFETY GOGGLES

Other Protective

Equipment:SAFETY SHOWER AND EYE BATH. OTHER EQUIPMENT AS REQUIRED TO MINIMIZE EXPOSURE FROM PROLONGED OR REPEATED CONTACT.

Work Hygienic Practices:WASH THOROUGHLY AFTER HANDLING AND BEFORE EATING. LAUNDER CONTAMINATED CLOTHING BEFORE REUSE.

Supplemental Safety and Health

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

HCC:N1

Melt/Freeze Pt:M.P/F.P Text:449F,232C

Vapor Pres:1

Spec Gravity:7.28

Solubility in Water:INSOLUBLE

Appearance and Odor:AN ODORLESS, SILVER

-WHITE, LUSTROUS, SOFT, VERY

MALLEABLE AND DUCTILE METAL.

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

Stability Indicator/Materials to Avoid:YES

AMMONIUM NITRATE, BROMINE, BROMINE TRIFLUORIDE, CARBON TETRACHLORIDE AND WATER, CHLORINE. (SEE MSDS FOR LISTING)

Stability Condition to Avoid:ABNORMAL TEMPERATURES AND PRESSURES.

Hazardous Decomposition Products:THERMAL DECOMPOSITION MAY RELEASE STANNIC OXIDE.

Conditions to Avoid Polymerization:ABNORMAL TEMPERATURES

AND PRESSURES.

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

Waste Disposal Methods:DISPOSE OF IN ACCORDANCE WITH ALL APPLICABLE
FEDERAL, STATE AND LOCAL LAWS AND REGULATIONS.

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