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NC004

25665 Lo-Temp Solder

MATERIAL SAFETY DATA SHEET

L CHEMICAL PRODUCT AND COMPANY TORMUTE ICATION -

Alpha Metals

600 Route 440

Jersey City, New Jersey 07304

(201) 434-6778

(201) 434-7508 fax www.alphametals.com

5/01/02

PRODUCT NAME: TIN LEAD CORE SOLDER

RELIACORE/ENERGIZED/TELECORE/SMT/PLASTICORE

MANUFACTURER'S NAME:

ALPHA METALS, INC

ADDRESS:

Revised 10/12/01 Replaces 6/06/01

Page

Printed

MSDS ID:

600 ROUTE 440

JERSEY CITY, NJ 07304 TRANSPORT EMERGENCY #: CHEMTREC: 1-800-424-9300

BUSINESS PHONE:

1-201-434-6778

2 PENEREDIENI AND EXPOSURE LIMIT INFORMATION

CHEMICAL NAME

CAS #

OSHA PEL - TWA

LEAD TIN

7439-92-1 30 - 40 60 - 70 0.05mg/m3

7440-31-5

2.0 mg/m

GUM ROSIN

1 - 5 8050-09-7

% W/W

OSHA PEL - TWA

S BANARDS IDENTIFICATION S

EMERGENCY OVERVIEW: MODERATE EYE IRRITANT.

WILL NOT BURN

TOXIC BY INHALATION.

MODERATE GASTROINTESTINAL TRACT IRRITANT.

MODERATE RESPIRATORY TRACT IRRITANT.

CAUSES SKIN IRRITATION

HMIS RATING SYSTEM:

; Flammability: 1 ; Reactivity: 0 : Protection: B Health: 2

NFPA RATING SYSTEM:

Health: 2 ; Flammability: 1 ; Reactivity: 0

ROUTES OF ENTRY:

INHALATION; INGESTION; SKIN CONTACT; EYE CONTACT;

ABSORPTION:

BLOOD; DIGESTIVE TRACT; KIDNEYS; NERVOUS SYSTEM; EYES; TARGET ORGANS:

SKIN.

DIGESTIVE TRACT DISEASE; KIDNEY DISEASE MEDICAL CONDITIONS AGGRAVATED:

EYE DISEASE. SKIN DISEASE INCLUDING ECZEMA

AND SENSITIZATION.

IMMEDIATE (ACUTE) SYMPTOMS OVER-EXPOSURE BY ROUTE OF EXPOSURE:

INHALATION:

CAN CAUSE MODERATE RESPIRATORY IRRITATION, DIZZINESS, WEAKNESS, FATIGUE, NAUSEA AND HEADACHE. MAY CAUSE AN

ALLERGIC REACTION. MAY CAUSE RESPIRATORY TRACT

SENSITIZATION, CHARACTERIZED BY ASTHMA-LIKE SYMPTOMS.

CAN CAUSE MODERATE IRRITATION, TEARING AND REDDENING, BUT EYES: NOT LIKELY TO PERMANENTLY INJURE EYE TISSUE.

SKIN CONTACT:

INGESTION:

CAN CAUSE SLIGHT IRRITATION. IRRITATING TO MOUTH, THROAT, AND STOMACH. CAN CAUSE



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HAZARDS TORNTIFICATION (Cont.)

ABDOMINAL DISCOMFORT, NAUSEA, VOMITING AND DIARRHEA.

LONG TERM (CHRONIC) HEALTH EFFECTS:

NONE OF THE SUBSTANCES IN THIS PRODUCT ARE CONFIRMED AS CARCINOGENICITY:

HUMAN CARCINOGENS AT THIS TIME BY NTP, IARC, OR OSHA. CLASSIFIES LEAD AND SOME LEAD COMPOUNDS AS 2B CARCINOGENS TO HUMANS). AGCIH LISTS AS LEAD AS A "A3, (ANIMAL CARCINOGEN

WITH UNKNOWN RELEVANCE TO HUMANS).

NO DATA AVAILABLE TO INDICATE PRODUCT OR ANY COMPONENTS REPRODUCTION:

PRESENT AT GREATER THAN 0.1% MAY CAUSE BIRTH DEFECTS. WOMEN OF CHILD BEARING AGE SHOULD AVOID EXPOSURE TO LEAD AND ITS

INORGANIC COMPOUNDS DUE TO POST-NATAL EFFECTS.

MUTAGENICITY: NO DATA AVAILABLE TO INDICATE PRODUCT OR ANY COMPONENTS

PRESENT AT GREATER THAN 0.1% IS MUTAGENIC OR GENOTOXIC.

KIRST ALD MEASURES

SKIN EXPOSURE: WASH WITH SOAP AND WATER. REMOVE CONTAMINATED CLOTHING AND

LAUNDER. GET MEDICAL ATTENTION IF IRRITATION DEVELOPS OR

PERSISTS.

EYE EXPOSURE: FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 20 MINUTES

RETRACTING EYELIDS OFTEN. TILT THE HEAD TO PREVENT CHEMICAL FROM TRANSFERRING TO THE UNCONTAMINATED EYE. GET IMMEDIATE

MEDICAL ATTENTION.

REMOVE TO FRESH AIR. IF BREATHING IS DIFFICULT, HAVE A INHALATION:

TRAINED INDIVIDUAL ADMINISTER OXYGEN. IF NOT BREATHING, GIVE

ARTIFICIAL RESPIRATION AND HAVE A TRAINED INDIVIDUAL ADMINISTER OXYGEN. GET MEDICAL ATTENTION IMMEDIATELY,

INGESTION: SEEK MEDICAL ATTENTION IMMEDIATELY.

NO ADDITIONAL FIRST AID INFORMATION AVAILABLE NOTES TO DOCTOR:

5. FIRE FIGHTING MEASURES

FLAMMABILITY SUMMARY:

NOT COMBUSTIBLE

FLASH POINT:

N/A N/E

AUTOIGNITION TEMPERATURE:

N/E

EXPLOSIVE LIMITS % IN AIR:

EXTINGUISHING MEDIA: USE ALCOHOL RESISTANT FOAM, CARBON DIOXIDE, OR DRY CHEMICAL WHEN FIGHTING FIRES. WATER OR FOAM MAY CAUSE FROTHING IF LIQUID IS BURNING BUT IT STILL MAY BE USEFUL EXTINGUISHING AGENT

IF CAREFULLLY APPLIED TO THE SURFACE OF THE FIRE. DO NOT DIRECT A STREAM OF WATER INTO

MOLTEN MATERIAL.

FIRE AND EXPLOSION METHODS:

MATERIAL MAY BE IGNITED ONLY IF PREHEATED TO



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FIRE FIGHEING MEASURES (Cont.)

TEMPERATURES ABOVE THE HIGH FLASH POINT, FOR

EXAMPLE IN A FIRE.

FIRE FIGHTING METHODS:

WILL NOT BURN, NO SPECIAL INSTRUCTIONS AVAILABLE. USE METHODS APPROPRIATE FOR

SURROUNDING MATERIALS.

HAZARDOUS COMBUSTION PRODUCTS: CARBON MONOXIDE; CARBON DIOXIDE; METAL FUMES;

TOXIC FUMES.

ACCIDIENTAL RELEASE MEASURES

PRECAUTIONS AND EQUIPMENT:

EXPOSURE TO THE SPILLED MATERIAL MAY BE IRRITATING OR HARMFUL. FOLLOW PERSONAL PROTECTIVE EQUIPMENT RECOMMENDATIONS FOUND IN SECTION VIII OF THIS

METHODS FOR CLEAN-UP:

WEAR COMPLETE AND PROPER PERSONAL PROTECTIVE EQUIPMENT FOLLOWING THE RECOMMENDATION OF SECTION VIII GATHER AND STORE IN A SEALED CONTAINER PENDING A WASTE DISPOSAL EVALUATION. DO NOT USE BROOM OR AIR CLEANING ETC.

HANDLING AND STORAGE

HANDLING MEASURES: HARMFUL OR IRRITATING MATERIAL. AVOID CONTACTING AND AVOID

BREATHING THE MATERIAL. USE ONLY IN A WELL VENTILATED

AS WITH ALL CHEMICALS, GOOD INDUSTRIAL HYGIENE PRACTICES SHOULD BE FOLLOWED WHEN HANDLING THIS MATERIAL. AVOID CONTACT WITH MATERIAL, AVOID BREATHING DUSTS OR FUMES, USE ONLY IN A WELL VENTILATED AREA. WASH THOROUGHLY AFTER HANDLING; WASH HANDS BEFORE EATING; DO NOT GET IN EYES,

ON SKIN AND CLOTHING.

STORAGE MEASURES:

NO SPECIAL REQUIREMENTS

KEEP AWAY FROM FOOD AND DRINKING WATER. STORE IN A COOL

DRY PLACE.

EXPOSURE COMPROLS AND PERSONAL PROTECTION

ENGINEERING MEASURES:

USE LOCAL EXHAUST VENTILATION OR OTHER ENGINEERING CONTROLS TO MINIMIZE EXPOSURES AND MAINTAIN OPERATOR

COMFORT.

ENGINEERING CONTROLS MUST BE DESIGNED TO MEET THE OSHA CHEMICAL SPECIFIC STANDARD IN 29 CFR 1910. VENTILATION IS REQUIRED TO MAINTAIN OPERATOR EXPOSURE



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EXPOSURE COMPROLS AND PERSONAL PROTECTION (Cont.)

BELOW PUBLISHED EXPOSURE LIMITS. USE PROCESS ENCLOSURES, LOCAL EXHAUST VENTILATION, OR OTHER ENGINEERING CONTROLS TO CONTROL AIRBORNE LEVELS BELOW RECOMMENDED EXPOSURE LIMITS; EXPLOSION PROOF EXHAUST VENTILATION SHOULD BE USED. FACILITIES STORING OR

VENTILATION SHOULD BE USED. USING THIS MATERIAL SHOULD BE EQUIPPED WITH AN

EYEWASH AND SAFETY SHOWER.

RESPIRATORY PROTECTION:

RESPIRATORY PROTECTION MAY BE REQUIRED TO AVOID OVEREXPOSURE WHEN HANDLING THIS PRODUCT. GENERAL OR LOCAL EXHAUST VENTILATION IS THE PREFERRED MEANS OF PROTECTION. USE A RESPIRATOR IF GENERAL ROOM

VENTILATION IS NOT AVAILABLE OR SUFFICIENT TO

ELIMINATE SYMPTOMS.

FOLLOW A RESPIRATORY PROTECTION PROGRAM THAT MEETS 29 CFR 1910.134 AND ANSI Z88.2 REQUIREMENTS WHENEVER

WORK PLACE CONDITIONS WARRANT THE USE OF A

RESPIRATOR. WEAR A NIOSH APPROVED RESPIRATOR IF ANY

EXPOSURE IS POSSIBLE.

EYE PROTECTION:

WEAR CHEMICALLY RESISTANT SAFETY GLASSES WITH SIDE SHIELDS WHEN HANDLING THIS PRODUCT. DO NOT WEAR

CONTACT LENSES.

WEAR GOGGLES AND A FACE SHIELD

SKIN PROTECTION:

WEAR PROTECTIVE GLOVES. INSPECT GLOVES FOR CHEMICAL BREAK-THROUGH AND REPLACE AT REGULAR INTERVALS. CLEAN PROTECTIVE EQUIPMENT REGULARLY. WASH HANDS AND OTHER EXPOSED AREAS WITH MILD SOAP AND WATER BEFORE EATING,

DRINKING, AND WHEN LEAVING WORK

CONTROL PARAMETERS:

CHEMICAL NAME

------ACGIH EXPOSURE LIMITS------

TLV-TWA

STEL

CEILING

GUM ROSIN

SENSITIZER; REDUCE EXPOSURE TO AS LOW AS POSSIBLE.

LEAD TIN

0.05 mg/m3 TWA 2 mg/m3 TWA

9. PHYSICAL AND CHEMICAL PROPERTIES

COLOR: ODOR: pH:

GREY NONE N/A



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10 STABILITY AND REACTIVERY

DECOMPOSITION PRODUCTS:

INCOMPATIBLE MATERIALS: CONDITIONS TO AVOID:

CONTAMINATION:

METAL FUMES; TOXIC FUMES.

STRONG ACIDS; STRONG OXIDIZING AGENTS;

NONE KNOWN

CONTACT WITH AIR. CONTACT WITH

WATER

11 TOXICOLOGICAL INFORMATION

COMPONENT TOXICOLOGY DATA (NIOSH)

CHEMICAL NAME

LD50/LC50

12 FECLOGICAL INFORMATION

OVERVIEW:

SLIGHT ECOLOGICAL HAZARD. IN HIGH CONCENTRATIONS, THIS PRODUCT MAY BE DANGEROUS TO PLANTS AND/OR WILDLIFE.

138 DISPOSAL CONSIDERATIONS:

WASTE DESCRIPTION: DISPOSAL METHODS:

SPENT OR DISCARDED MATERIAL IS PROBABLY A HAZARDOUS WASTE. DISPOSE OF IN ACCORDANCE WITH FEDERAL, STATE, LOCAL, OR

PROVINCIAL LAWS AND REGULATIONS.

14. TRANSPORT INFORMATION

SHIPPING BASIC DESCRIPTION: DOT & IATA: NOT RESTRICTED

15. REGULATORY INFORMATION

TSCA STATUS: ALL COMPONENTS OF THIS PRODUCT ARE LISTED ON THE TSCA INVENTORY

OF EXISTING CHEMICAL SUBSTANCES.

REGULATED CHEMICALS:

CHEMICAL NAME

LEAD LEAD REGULATION

7439-92-1 SARA 313

7439-92-1 CA PROP 65



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16.5 CTHER INFORMATION

The information contained herein is based on data considered accurate. However, no warranty is expressed of implied regarding the accuracy of these data or the results to be obtained from the use thereof. Additionally, Alpha Metals, Inc. assumes no responsibility for injury to the vendee or third persons proximately caused by the material even if reasonable safety procedures are followed. Furthermore, vendee assumes the risk in his use of the material.