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NATIONAL WELDING ALLOYS, INC. -- TIN-LEAD SOLDER-WILL COVER ALL SOLDERS CONTAINING TIN & LEAD -- 3439-01-008-7580

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

Product ID:TIN-LEAD SOLDER-WILL COVER ALL SOLDERS CONTAINING TIN & LEAD

MSDS Date:03/21/1988

FSC:3439

NIIN:01-008-7580

MSDS Number: CFKFX === Responsible Party ===

Company Name: NATIONAL WELDING ALLOYS, INC.

Address:1600 SOUTH CANAL STREET

City:PITTSB

URGH State:PA ZIP:15215 Country:US

Info Phone Num:412-781-4255

Emergency Phone Num:412-781-4255, CHEMTREC 800-424-9300

CAGE:0ACE2

=== Contractor Identification ===

Company Name: NATIONAL WELDING ALLOYS INC

Address:1600 SOUTH CANAL STREET

Box:City:PITTSBURGH

State:PA

ZIP:15215-2624 Country:US

Phone:412-781-4255

CAGE:0ACE2

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

Ingred Name:TIN CAS:7440-31-5

RTECS #:XP7320000

Other REC Limits: NONE RECOMMENDED

OSHA PEL:2 MG/M3

ACGIH TL

V:2 MG/M3; 9596

Ingred Name:LEAD (SARA 313) (CERCLA)

CAS:7439-92-1

RTECS #:OF7525000

Other REC Limits: NONE RECOMMENDED

OSHA PEL:SEE 1910.1025

ACGIH TLV:0.05MG/M3, A3; 9596

EPA Rpt Qty:1 LB DOT Rpt Qty:1 LB

Ingred Name: NO OHTER HAZ MATLS IS PRESENT IN CONCEN GREATER THAN

1%(0.1% FOR CARCINOGENS)

RTECS #:9999999ZZ Fraction by Wt: NA

Other REC Limits: NONE RECOMMENDED

Ingred Name:LEAD (SARA 313) (CERCLA) (BARE WIRE COMPO)

CAS:7439-92-1

RTECS #:OF7525000

Other REC Limits: NONE RECOMMENDED

OSHA

PEL:SEE 1910.1025

ACGIH TLV:0.05MG/M3, A3; 9596

EPA Rpt Qty:1 LB DOT Rpt Qty:1 LB

Ingred Name:BORON OXIDE (BORIC ACIDS) (FLUX COATING COMPO)

CAS:1303-86-2

RTECS #:ED7900000

Other REC Limits: NONE RECOMMENDED

OSHA PEL:15 MG/M3 TDUST ACGIH TLV:10 MG/M3; 9596

Ingred Name: FLUORIDES (FUME) (FLUX COATING COMPO)

Other REC Limits: NONE RECOMMENDED

Ingred Name: ISOPARRAFINIC HYDROCARBONS

Other REC Limits: NONE RECOMMENDED

Ingred Name: UREA (FLUX COATING COMPO)

CAS:57-13-6

RTECS #:YR6250000

Other REC Limit

s:NONE RECOMMENDED

Ingred Name: ETHYLENEDIAMINE DIHYDROCHLORIDE (FLUX COATING COMPO)

CAS:333-18-6

RTECS #:KV3850000

Other REC Limits: NONE RECOMMENDED

OSHA PEL:NOT ESTABLISHED. ACGIH TLV:NOT ESTABLISHED.

Ingred Name: ETHYLAMINE HYDROCHLORIDE

CAS:557-66-4

Other REC Limits: NONE RECOMMENDED

Ingred Name: SUCCINIMIDE (FLUX COATING COMPO)

CAS:123-56-8

RTECS #:WN2200000

Other REC Limits: NONE RECOMMENDED

OSHA PEL:NOT ESTABLISHED. ACGIH TLV:NOT ESTABLISHED.

Ingred Name: WHITE PROTOPET IS (FLUX COATING COM

PO)

Other REC Limits: NONE RECOMMENDED

Ingred Name: SEBACIC ACID (FLUX COATING COMPO)

CAS:111-20-6

RTECS #:VS0875000

Other REC Limits: NONE RECOMMENDED

Ingred Name: DIETHYLAMINE HYDROCHLORIDE (FLUX COATING COMPO)

CAS:660-68-4

RTECS #: IA3084000

Other REC Limits: NONE RECOMMENDED

Ingred Name: SUCCINIC ACID (FLUX COATING COMPO)

CAS:110-15-6

RTECS #:WM4900000

Other REC Limits: NONE RECOMMENDED

OSHA PEL:2 MG/M3

ACGIH TLV:2 MG/M3; 9596

Ingred Name: POTASSIUM HYDROGEN FLUORIDE (FLUX COATING COMPO)

CAS:7789

-29-9

RTECS #:TS6650000

Other REC Limits: NONE RECOMMENDED

Ingred Name: POTASSIUM TETRAFLUOBORATE (FLUSH COATING COMPO)

CAS:14075-53-7 RTECS #:ED2800000

Other REC Limits: NONE RECOMMENDED

Ingred Name: AZELAIC ACID (FLUX COATING COMPO)

CAS:123-99-9

RTECS #: CM1980000

Other REC Limits: NONE RECOMMENDED

OSHA PEL:NOT ESTABLISHED. ACGIH TLV:NOT ESTABLISHED.

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

LD50 LC50 Mixture: NONE SPECIFIED BY MANUFACTURER.

Routes of Entry: Inhalation: YES Skin:YES Ingestion:YES

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

Health Hazards Acute and Chronic:CHRONIC EXPOSURE TO HIGH LEVELS OF AIRBORNE OR INGESTED LEAD MAY RESULT IN ANEMIA, NAUSEA.IT IS UNLIKELY THAT NORMAL EXPOSURE TO THIS MATL WOULD RESULT IN ACUTE ILLNESS.

Explanation of Carcinogenicity:PER

MSDS:CARCINOGENICITY/NTP/IARC/OSHA:NA.

Effects of Overexposure:LEAD:NAUSEA, ANEMIA, CONSTIPATION.

Medical Cond Aggravated by Exposure:TOXIC/CHRONIC EXPOSURE:KIDNEY A

BLOOD DISORDERS.

First Aid:REMOVE FROM EXPOSURE;CONSULT PHYSICIAN.WHEN DANGER OF TOXIC EXPOSURE TO LEAD EXISTS PERIODIC URINALYSIS & BLOOD TESTS SHOULD BE RUN TO CHECK LEAD LEVELS.

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

Flash Point:NA

Autoignition Temp: Autoignition Temp Text: NA

Lower Limits:NA
Upper Limits:NA

Extinguishing Media:CO2, OR DRY CHEMICAL EXTINGUISHER.

Fire Fighting Pr

ocedures:USE NIOSH APPROVED SELF-CONTAINED BREATHING APPARATUS & FULL PROTECTIVE CLOTHING IF INVOLVED IN FIRE.
Unusual Fire/Explosion Hazard:FINELY DIVIDED DUST MAY FORM EXPLOSIVE MIXTURES W/AIR.WHEN OVERHEATED LEAD FUMES ARE TOXIC.
======== Accidental Release Measures =========
Spill Release Procedures:SOLID/RECYCLABLE.CONFORM WITH APPLICABLE REGULATORY STATUTES.
Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.
======================================
Handling and Storage Precautions:DUST SHOULD BE KEPT TO MINIMUM. Other Precautions:VACUUMING RECOMMENDED FOR ACCUMULATED DUST.
====== Exposure Controls/Personal Protection ========
Respiratory Protection: USE NIOSH APPROVED RESPIRATOR WHERE DUST OR FUMES ARE PRESENT.
Ventilation:LOC EXHAU:EXHAU FUMES AWAY FRM WORKAREA.MECH(GEN):ADEQU VENTI SHOULD BE USED WHEN MATL IN DUSTY/MOLTEN STATE.SPEC:(SUPP)
Protective Gloves:RECOMMENDED FOR HIGH TEMPERATURES E
ye Protection:RECOMMENDED
Other Protective Equipment:STANDARD PROTECTIVE EQPMT NORMALLY USED IN SOLDERING/APPLICABLE OPERATIONS.
Work Hygienic Practices:CONFORM W/LOCAL, STATE AND FEDERAL AND OSHA REGULATORY STATUTES.
Supplemental Safety and Health VENTI:CONFORM W/APPLICABLE REGULATIONS.
======== Physical/Chemical Properties ==========
HCC:N1 Boiling Pt:B.P. Text:N/ESTABLISH
Melt/Freeze Pt:M.P/F.P Text:NP
Decomp Temp:Decomp Text:NP
Vapor Pres:NA
Vapor Density:NA Sp

pH:NP
Viscosity:NP
Evaporation Rate & Evaporation Rate & Evaporation Rate & Evaporation Rate & Evaporation Rate: NSOLUBLE Appearance and Odor: SILVER-GRAY, ODORLESS Percent Volatiles by Volume: NP Corrosion Rate: NP
======== Stability and Reactivity Data =========
Stability Indicator/Materials to Avoid:YES
STRONG ACIDS AND ALKALIS.
Hazardous Decomposition Products:AT TEMPERATURES ABOVE METLING RANGE/TEMPS, OXIDE FUMES MAY EVOLVE.

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

ec Gravity:N/ESTABLISHED

Waste Disposal Methods: WASTE SHOULD BE DISPOSED OF PROPERLY IAW LOCAL, STATE AND FEDERAL AND OSHA REGULATIONS.

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