

TELEDYNE BATTER PRODUCTS, TELEDYNE INC COMPANY -- G-6381, TELEDYNE BATTERY, GILL
AIRCRAFT BATTERY (SEE SUPPL) -- 6140-01-214-0353

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

Product ID:G-6381, TELEDYNE BATTERY, GILL AIRCRAFT BATTERY (SEE SUPPL)

MSDS Date:03/01/2000

FSC:6140

NIIN:01-214-0353

Status Code:A

MSDS Number: CLGYW

=== Responsible Party ===

Company Name:TELEDYNE BATTER PRODUCTS, TELEDYNE INC COMPAN
Y

Address:840 W BROCKTON AVE

Box:431

City:REDLANDS

State:CA

ZIP:92375

Country:US

Info Phone Num:909-793-3131

Emergency Phone Num:909-793-3131

Resp. Party Other MSDS Num.:1001

Preparer's Name:NAHID TOOSSI

CAGE:84375

=== Contractor Identification ===

Company Name:TELEDYNE BATTER PRODUCTS, TELEDYNE INC COMPANY

Address:840 W BROCKTON AVE

Box:431

City:REDLANDS

State:CA

ZIP:92373

Country:US

Phone:909-793-3131

Contract Num:SP0430-01-M-FL88

CAGE:84375

===== Composition/Information on Ingredien

ts =====

Ingred Name:LEAD AND LEAD COMPOUNDS

CAS:7439-92-1

RTECS #:OF7525000

< Wt:95.

Other REC Limits:NOT PROVIDED

OSHA PEL:50 UG/M3

ACGIH TLV:0.15 MG/M3

Ingred Name:ANTIMONY

CAS:7440-36-0

RTECS #:CC4025000

< Wt:1.1

Other REC Limits:NOT PROVIDED

OSHA PEL:0.5 MG/M3

ACGIH TLV:0.5 MG/M3

EPA Rpt Qty:5000 LBS

DOT Rpt Qty:5000 LBS

pt Qty:1 LB

Ingred Name:BARIUM SULFATE
CAS:7727-43-7
RTECS #:CR0600000
< Wt:.2
Other REC Limits:NOT PROVIDED
OSHA PEL:15 MG/M3
ACGIH TLV:10 MG/M3

Ingred Name:CALCIUM COMPOUNDS
CAS:7440-70-2
RTECS #:EV8040000
< Wt:.1
Other REC Limits:NOT PROVIDED
OSHA PEL:5 MG/M3
ACGIH TLV:2 MG/M3

Ingred Name:CARBON BLACK EXTRACTS
CAS:1333-86-4
RTECS #:FF5800000
< Wt:.1
Other REC Limits:NOT PROVIDED
OSHA PEL:3.5 MG/M3
ACGIH TLV:3.5 MG/M3

Ingred Name:TIN COMPOUNDS
CAS:7440-31-5
RTECS #:XP7320000
<
Wt:.3
Other REC Limits:NOT PROVIDED
OSHA PEL:2 MG/M3
ACGIH TLV:2 MG/M3

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

LD50 LC50 Mixture:NOT PROVIDED
Routes of Entry: Inhalation:YES Skin:NO Ingestion:YES
Reports of Carcinogenicity:NTP:NO IARC:YES OSHA:YES
Health Hazards Acute and Chronic:ACUTE OVEREXPOSURE: ACUTE UNTREATED
OVEREXPOSURE TO LEAD MAY LEAD TO WEAKNESS, VOMITING, LOSS OF
APPETITE, UN-COORDINATED BODY MOVEMENTS, CONVULSIONS, STUPOR,
POSSIBLY CO

MA. CHRONIC OVEREXPOSURE: CHRONIC UNTREATED EXPOSURE TO LEAD MAY CAUSE WEAKNESS, INSOMNIA, HYPERTENSION, SLIGHT IRRITATION TO SKIN AND EYES, METALLIC TASTE, ANEMIA, CONSTIPATION, HEADACHE, MUSCLE AND JOINT PAINS, NEUROMUSCULAR DYSFUNCTION, POSSIBLE PARALYSIS, ENCEPHALOPATHY, PNEUMOCONIOSIS. LEAD CAN POSE RISK TO DEVELOPING FETUSES AND MAY ALSO IMPAIR REPRODUCTIVE SYSTEMS IN BOTH MEN AND WOMEN. DAMAGE TO THE KIDNEYS, HEMATOPOIETIC AND/OR CNS MAY OCCUR.

Explanation of

of Carcinogenicity: CONTAINS LEAD. ARSENIC IS LESS THAN 0.1 %.

Effects of Overexposure: OVEREXPOSURE TO LEAD MAY LEAD TO WEAKNESS, VOMITING, LOSS OF APPETITE, UN-COORDINATED BODY MOVEMENTS, CONVULSIONS, POSSIBLY COMA.

Medical Condition Aggravated by Exposure: NOT PROVIDED

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

First Aid: EYES: (DRY OXIDE) WASH IMMEDIATELY WITH LARGE AMOUNTS OF WATER. LIFTING THE LOWER AND UPPER LIDS CONTINUOUSLY. GET MEDICAL ATTENTION. SKIN: NOT A DIRECT ROUTE OF ENTRY. INHALATION: REMOVE

EMPLOYEE FROM AREA OF EXPOSURE. GET IMMEDIATE MEDICAL ATTENTION. INGESTION: GET IMMEDIATE MEDICAL ATTENTION.

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

Flash Point: =357.2C, 675.F

POLYPROPYLENE

Extinguishing Media: USE HALON. DRY CHEMICAL EXTINGUISHER. BATTERY CASE WILL BURN.

Fire Fighting Procedures: USE OF WATER IN EXTINGUISHING BURNING BATTERIES MAY CAUSE SPATTERING DUE TO THE PRESENCE OF MOLTEN LEAD

Unusual Fire/Explosion Hazard: WHILE BATTERY IS BEING CHARGED, HYDROGEN GAS IS PRODUCED. BATTERY MAY EXPLODE IF HYDROGEN GAS IS TRAPPED INSIDE THE BATTERY CASE. KEEP IGNITION SOURCES AWAY.

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

Spill Release Procedures: PICK UP AND CONTAINERIZE BATTERY PARTS AND MATERIALS. LIMIT PERSONAL EXPOSURE WITH GLOVES, EYE, AND FACE PROTECTION. WHEN BATTERY IS FILLED WITH SULFURIC ACID ELECTROLYTE. ISOLATE THE AREA SHOULD

A BATTERY BREAK OPEN. ELECTROLYTE SHOULD
BE ABSORBED WITH A NON-ORGANIC TYPE ABSORBENT SUCH AS DRY SAND OR
EARTH. AVOID DILUTION WITH WATER. LEAD SPILLED FROM BATTERY SHOULD
BE HEPA VACUUMED/ WET MOPPED.
Neutralizing Agent:NOT PROVIDED

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

Handling and Storage Precautions:EXERCISE CAUTION IN HANDLING AND
STORAGE DUE TO WEIGHT OF UNITS.

Other Precautions:USE CAUTION WHEN FILLING UNITS WITH ELECTROLYTE
(BATTERY
ACID, DILUTE SULFURIC ACID). WEAR ACID RESISTANT PLASTIC OR
RUBBER GLOVES, EYE PROTECTION, APRON AND BOOTS. MATERIAL SAFETY
DATA SHEET FOR LEAD- ACID BATTERY APPLIES WHEN FILLED WITH ACID
ELECTROLYTE.

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

Respiratory Protection:UNDER NORMAL CONDITIONS OF USE RESPIRATORY
PROTECTION IS NOT REQUIRED. HOWEVER, SHOULD CONDITIONS ARISE WHERE
RESPIRATORS ARE NEEDED, USE ONLY NIOSH/MSHA RESPIRATORS APPROVED
FOR DUST, FUME AND MIST.

T, FUME AND MIST.

Ventilation:BATTERY CHARGING AREAS MUST BE ADEQUATELY VENTILATED TO
PREVENT HAZARDOUS CONCENTRATIONS OF FLAMMABLE GAS OR ACID MIST.

Protective Gloves:GLOVES APPROVED FOR SULFURIC ACID.

Eye Protection:CHEMICAL GOGGLES, FULL FACE SHIELD.

Other Protective Equipment:ACID RESISTANT APRON.

Work Hygienic Practices:NOT PROVIDED

Supplemental Safety and Health

CONT'D FROM PRODUCT ID: CENTURION, BIG BEAM, TELSTAR, SILTRON, AIR
TRACTOR AND SCHWIEZER. PART NUMBER: G-6381E. THIS MSDS
DESCRIBES A
DRY BATTERY. FOR ACID ELECTROLYTE, SEE MSDS NUMBER CLGYZ.

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

HCC:Z7

NRC/State Lic Num:NOT RELEVANT

Boiling Pt:>160.C, 320.F

B.P. Text:POLYPROPYLENE

Melt/Freeze Pt:=327.2C, 621.F

M.P/F.P Text:LEAD

Decomp Temp:Decomp Text:NOT PROVIDED

Vapor Pres:(LEAD): NEGLIGIBLE

Spec Gravity:(LEAD) 11.34

Solubility in Water:(LEAD):INSOLUBLE IN WATER

Appearance and Odor:NO ODOR. BATTERY CASE IS PINK, WHITE, OLIVE GREEN,
OFF-W

HITE, OR BLACK.
Percent Volatiles by Volume:NEGLIGIBLE
Corrosion Rate:NOT PROVIDED

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

Stability Indicator/Materials to Avoid:YES
CONTACT OF LEAD WITH STRONG OXIDIZERS MAY LIBERATE HYDROGEN GAS.
Stability Condition to Avoid:NONE
Hazardous Decomposition Products:NONE

===== Toxicological Information =====

Toxicological Information:NOT PROVIDED

===== Ecological Information =====
=====

Ecological:NOT PROVIDED

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

Waste Disposal Methods:BATTERY PARTS MAY BE RECYCLED BY AN
EPA-PERMITTED SECONDARY LEAD SMELTING FACILITY OR DISPOSED OF AS
HAZARDOUS WASTE PURSUANT TO RCRA REQUIREMENTS.

===== MSDS Transport Information =====

Transport Information:NOT PROVIDED

===== Regulatory Information =====

SARA Title III Information:THE CHEMICALS LISTED BELOW ARE TOXIC
CHEMICALS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF
TITLE III OF THE SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT
(SARA) OF 1986 AND 40 CFR PART 372: LEAD AND LEAD COMPOUNDS (CAS #
7439-92-1)