B242717)

# ITEM: 54XH38 - Sealed Lead Acid Battery 12VDC 3.7

PICK REO: 1524708001

**SAFETY DATA SHEET (SDS)** 

**SDS: F0150** 

SDS - F0150

Associated Items

2UKG9, 2UKG9, 2UKH2, 2UKH3, 2UKH6, 2UKJ1, 2UKJ2, 2UKJ3, 2UKJ6, 2UKJ9, 2UKK2 2UKK3, 2UKK6, 2UKL5, 2UKL7, 54XH35, 54XH36, 54XH37, 54XH38, 54XH39, 54XH40 54XH41, 54XH42, 54XH43, 54XH44, 54XH45, 54XH46, 54XH47, 54XH48, 54XH48, 54XH53, 54XH54 55EZ22, 5EFF2, 5EFF5, 5EFF7, 5EFF8, 5EFF9, 5EFG6, 5EFG7, 5EFG8, 5EFN0, 5EFN2 5EFH6

STAY POWERED (R\*)

SLA SDS

TRADE NAME: VALVE REGULATED LEAD BATTERY

REVISION DATE: JANUARY 19, 2018

— SECTION 1: INPUTIFICATION OF THE SUBSTANDAMINE AND OF THE COMPANY/UNDERTAKING

1.1 PRODUCT IDENTIFIER:

1.1.1 TRADE NAME/DESIGNATION: VALVE REGULATED LEAD BATTERY

1.2 RELEVANT LIENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED

1.2.1 RELEVANT IDENTIFIED USES; POWER SPORT BATTERIES GENERAL PURPOSE DEEP CYCLE MEDICAL BOULFMENT STANDBY APPLICATIONS

1.2.2 USES ADVISED AGAINST: ANY OTHER NOT LISTED ABOVE

1.3 DETAILS OF THE SUPPLIER;

MANUFACTURED FOR: UNIVERSAL POWER GROUP, INC. 488 S ROYAL LANE COPPELL, TX 75019

469-892-1122

WWW.UPGI.COM

1.4 EMERGENCY TELEPHONE NUMBER: US/CAN: 1-800-424-9300 COUNTRIES OUTSIDE OF US/CAN: 1-703-527-3887

- SECTION 2: HAZARDS IDENTIFICATION

MATERIAL IS AN ARTICLE. NO HEALIH EFFECTS ARE EXPECTED DURING NORMAL USE OF THIS FRODUCT AS SOLD. HAZARITAS EXPOSURE MAY OCCUR WHEN THE PRODUCT IS HEALED, CXIDIZED OR OTHERWISE PROCESSED, DAMAGED OR SUBJECTED TO MISUSE. FOLLOW MANUFACTURER'S INSTRUCTIONS FOR INSTALLATION, SERVICE AND USE.

- 2.1 CLASSIFICATION OF THE SUBSTANCE OR MIXTURE:
- 2.1.1 CLASSIFICATION ACCURDING TO REGULATION (EC) NO 1272/2008 [CLP/GHS]: 8B: NON FLAMMABLE CORROSIVE MATERIALS
- 2.1.2 CLASSIFICATION ACCORDING TO 67/548/EBC OR 1999/45/EC: XI: IRRITATING
- 2.1.3 CLASSIFICATION ACCORDING TO 29 CFR 1910.1200:
- 2.2 LABEL ELEMENTS:
- 2.2.1 LABELING ACCORDING TO GHS:

HEALTH: EXCLAMATION MARK CORROSION HEALTH HAZARD

ENVIRONMENTAL: ENVIRONMENT

PHYSICAL: EXPLODING BOMB

ACUTE TOXICITY (ORAL/DERMAL/INFALATION): CATEGORY 4
SKIN CORROSION/IRRITATION: CATEGORY 1A
EYE DAMAGE: CATEGORY 1
REPRODUCTIVE: CATEGORY 1A
CARCINCGENICITY (LEAD COMPOUNDS): CATEGORY 1B
CARCINCGENICITY (ARISMIC): CATEGORY 1A
CARCINCGENICITY (ACID MIST): CATEGORY 1A
SPECIFIC TRAGET ORGAN TUXICITY (REFEATED EXPOSURE): CATEGORY 2
AQUATIC CHRONIC: 1
ACUTE 1
EXPLOSIVE CHEMICAL, DIVISION: 1.3

HAZARD STATEMENTS - DANGER!

NORMAL CONDITIONS: NO HEALTH EFFECTS ARE EXPECTED. HOWEVER, IRRITATION OR SEVERE BURNS MAY CAUSE IF CONTACT WITH INTERNAL COMPONENTS.

ABNORMAL CONDITIONS (BROKEN CASE OR EXTREME OVERCHARGING); INHALATION, MAY CAUSE RESPIRATORY IRRITATION, INFERTILITY, AND CANCER.

SKIN CONTACT WITH SULFURIC ACID, MAY CAUSE SKIN IRRITATION

EYE CONTACT, MAY CAUSE IRRITATION IF EYE EXPOSED TO ACIDIC MIST/DUST.

INCESTION, MAY CAUSE ABDOMINAL PAIN, NAUSEA, VOMITING, DIARRHEA, SEVERE

EFFECT OF CHRONIC LEAD EXPOSURE: CENTRAL NEWOUS SYSTEM (CNS) DAMAGE, KIDNEY DYSFUNCTION, ANEMIA, NEUROPATHY PARTICULAR OF THE MOTOR NERVES WITH WRIST DROP, AND FOTENTIAL REPRODUCTIVE

EFFECT OF SILEURIC ACID EXPOSURE: SEVERE IRRITATION, BURNS AND PERMANENT TISSUE DAMAGE TO ALL ROUTES OF EXPOSURE. CHRONIC EXPOSITE MAY CAUSE EROSION OF TOOTH ENAMEL, INFLAMMATION OF NOSE, THROAT AND RESPIRATORY SYSTEM.

PRECAUTIONARY STATEMENTS: PRECAUTIONARY STATEMENTS:

DO NOT HANDLE UNITL ALL SAFETY PRECAUTIONS HAVE BEEN READ AND UNDERSTOOD.

DO NOT EAT DRINK OR SMOKE WHEN USING THIS PRODUCT.

KEEP OUT OF REACH OF CHILDREN. KEEP CONTAINER TIGHTLY CLOSED.

AVOID BEATHING DUST/FIME/MIST/GAS/VAPORS/SPRAY.

AVOID BREATHING DUST/FIME/MIST/GAS/VAPORS/SPRAY.

AVOID CONTACT WITH INTERNAL ACID.

WEAR PROTECTIVE GLOVES, CLOTHING, EYE-WARES, AND FACE-WARES.

USE IT CRLY CUITOCORS OR IN A WELL-VENTILATED AREA.

WASH THOROUGHLY AFTER HANDLING.

#### - SECTION 3: COMPOSITION/INFORMATION ON INCREDIBNIS

3.1 DESCRIPTION OF THE MIXTURE:

CAS NO	ec no	% [WEIGHT]	NAME
7439-92-1	231-100-4	63-78%	LEAD
7664-93-9	231-639-5	10-30%	SULFURIC ACID
7440-36-0	231-146-5	0.2%	ANTIMONY
7440-31-5	231-141-8	0.006%	TIN
7440-38-2	231~148-6	0.003%	ARSENIC
7440-70-2	231-179-5	0.002%	CALCIUM

CASE MATERIAL COMPOSES 5-6% OF THE ARTICLE. CASE MATERIAL INCLUDES THE FOLLOWING COMPONENTS: FOLLOWING COMPANENTS:

1-PROPENDR, HOMPOLIMER (9003-07-0); POLYSTYMENE (9003-53-6); ACRYLONITRILE,
POLYMER WITH STYRENE (9003-54-7); ACRYLONITRILE, POLYMER WITH 1,3-BUTADIENE
AND STYRENE (9003-56-9); STYRENE POLYMER WITH 1,3-BUTADIENE AND STYRENE
(9003-56-9); STYRENE POLYMER WITH 1,3-BUTADIENE (REACTON) (9003-55-8);
ETHYLENE, CHURCO-, POLYMER (9003-86-2); HARD RUBBER; POLYCARBONATE;

## - SECTION 4: FIRST AID MEASURES -

4.1 DESCRIPTION OF FIRST AID MEASURES .:

4.1.1 EYE CONTACT:
FIRST AID IS NOT EXPECTED TO BE NECESSARY IF MATERIAL IS USED UNDER ORDINARY CONDITIONS AND AS RELIMBATED. IF CONTACT WITH MATERIAL OCCURS FLUSH EYES WITH WATER. GET MEDICAL ATTENTION.

4.1.2 INHALATION: FIRST AID IS NOT EXPECTED TO BE NEXESSARY IF MATERIAL IS USED UNDER CROIDWAY CONDITIONS AND AS RECOMMENDED. IF SIGNS/SYMPIOMS DEVELOP, MOVE PERSON TO FRESH AIR. ADMINISTER OXYGEN IF BREATHING IS DIFFICULT. GET MEDICAL ATTENTION.

4.1.3 SKIN CONTACT:
FIRST AID IS NOT EXPECTED TO BE NECESSARY IF MATERIAL IS USED UNDER ORDINARY CONDITIONS AND AS RECOMMENDED. IF EXPOSURE TO ELECTROLYTE (SULFURIC ACID) OCCURS, FLUSH WITH LARGE QUANTITIES OF NATER FOR 15 MINUTES. INVENIENTELY REMOVE CONTAMINATED CLOTHING AND SHOES. IF EXPOSURE TO LEAD COMPONENT OCCURS, WASH CONTAMINATED SKIN WITH PLENTY OF SOAP AND WATER

4.1.4 INSESTION:
FIRST AID IS NOT EXPECTED TO BE NECESSARY IF MATERIAL IS USED UNDER CROINARY CONDITIONS AND AS RECOMMENDED. IF ELECTROLYTE (SILFRIC ACID) PERFICION OF BATTERY IS INSESTED GIVE LARGE QUANTITIES OF WATER DO NOT INDUCE VOMITING, GET MEDICAL ATTENTION IMMEDIATELY. IF LEAD PORTION OF BATTERY IS INSESTED GET MEDICAL ATTENTION IMMEDIATELY.

4.1.5 SELF-PROTECTION OF THE FIRST ALDER: IF ARTIFICIAL RESPIRATION IS REQUIRED USE A POCKET MASK EQUIPPED WITH A CINE-WAY VALVE OR OTHER PROPER RESPIRATORY MEDICAL DEVICE.

## - SECTION 5: (TREPTENTING MEASURES

- 5.1 EXTINGUISHING MEDIA:
- 5.1.1 SUITABLE EXTINGUISHING MEDIA; CO2. DRY CHEMICAL OR FOAM
- 5.1.2 UNSUITABLE EXTINGUISHING MEDIA: AVOID USING WATER
- 5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE.:
- 5.2.1 HAZARDOUS COMBUSTION PRODUCTS: LEAD PORTION OF BATTERY WILL LIKELY PRODUCE TOXIC METAL FUME, VAPOR OR DUST.
- 5.3 ADVICE FOR FIRE-FIGHTERS:

IF BATTERIES ARE ON CHARGE, SHUT OFF FOWER. DO NOT ALLOW METALLIC MATERIALS TO SIMILITANBLYSLY CONTACT NEGATIVE AND POSITIVE TERMINALS OF CELLS AND BATTERIES.

WEAR A POSITIVE PRESSURE SELF-CONTAINED BREATHING APPARATUS (SCBA). SIRUCTURAL FIRE FIGHTERS'PROTECTIVE CLOIMING WILL ONLY PROVIDE LIMITED PROTECTION.

#### SECTION 6: ACCIDENTAL RELEASE MEASURES

- 6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES:
- 6.1.1 FOR NON-EMERGENCY PERSONNEL: PROTECTIVE EQUIPMENT: WEAR CHEMICAL GLOVES
- 6.1.2 FOR EMERGENCY RESPONDERS:

PERSONAL PROTECTIVE EQUIPMENT: WEAR CHEMICAL GLOVES, GOGGLES, ACID RESISTANT CLOTHING AND BOOTS, RESPIRATOR IF INSUFFICIENT VENTILATION.

6.2 ENVIRONMENTAL PRECAUTIONS:
PREVENT ENTRY INTO WATERWAYS, SEWERS, BASEMENTS OR CONFINED AREAS. RUNOFF
FROM FIRE CONTROL AND DILUTION WATER MAY BE TOXIC AND CORROSIVE AND MAY
CAUSE ADVERSE ENVIRONMENTAL IMPACTS.

6.3 METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP:

3.1 FOR CONTAINMENT:

IN THE EVENT OF A BATTERY RUPTURING; STOP THE LEAK IF YOU CAN DO IT WITHOUT RISK. ABSORB WITH EARTH, SAND OR OTHER NON-COMBUSTIBLE MATERIAL. CAUTIOUSLY NEUTRALIZE SPILLED LIQUID.

.2 FOR CLEANING UP: DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE, AND NATIONAL REGULATIONS.

# - SECTION 7: HANDLING AND STORAGE -

#### 7.1 PRECAUTIONS FOR SAFE HANDLING:

.1 PROTECTIVE MEASURES:

7.1.1 PROTECTIVE MEASURES:
HANDLE BATTERIES CAUTICUSLY, DO NOT TIP TO AVOID SPILLS (IF FILLED WITH
ELECTROLYTE), AVOID CONTACT WITH INTERNAL COMPONENTS, WEAR PROTECTIVE
CLOTHING WHEN FILLING OR HANDLING BATTERIES, FOLLOW MANUFACTURER'S
INSTRUCTIONS FOR INSTALLATION AND SERVICE, DO NOT ALLOW CONCUCTIVE MATERIAL
TO TOUCH THE BATTERY TERMINALS, SHORT CIRCUIT MAY OCCUR AND CAUSE BATTERY FAILURE AND FIRE.

7.1.2 ADVICE ON GENERAL OCCUPATIONAL HYGIENE:
WASH THOROUGHLY WITH SOAP AND WATER AFTER HANDLING AND BEFORE EATING,
DRINKING, OR USING TOBACCO. EXEMASH STATIONS AND SAFETY SHOWERS SHOULD
BE PROVIDED WITH UNLIMITED WATER SUPPLY. HANDLE IN ACCORDANCE WITH GOOD
INDUSTRIAL HYGIENE AND SAFETY PRACTICE.

.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES:

TECHNICAL MEASURES AND STORAGE CONDITIONS:
STORE IN A COOL/LOW-TEMPERATURE, WELL-VENTILATED PLACE AWAY FROM HEAT AND
IGNITION SOURCES. BATTERIES SHOULD BE STORED UNDER ROOF FOR PROTECTION
AGAINST ADVERSE WEATHER CONDITIONS, PLACE CARDBOARD BETWEEN LAYERS OF
STACKED BATTERIES TO AVOID DAMAGE AND SHORT CIRCUITS. STORE BATTERIES
ON AN IMPERVIOUS SURFACE.

STORAGE CLASS: CLASS 8B: NON-FLAMMABLE CORROSIVE MATERIALS

## - SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 CONTROL PARAMETERS:

8.1.1 OCCUPATIONAL EXPOSURE LIMITS:								
LIMIT VALUE TYPE (COUNTRY OF ORIGIN)	SUBSTANCE NAME	EC-NO.	CAS-NO	LIMIT VALUE OBSERVA	MONITORING AND ATION PROCESSES			
TWA (ACGIH USA) TWA (CA) TWA (FI) STEL(ME) TWA (ME) TWA (NIOSH USA)	TIN 231-14	1-8 7440-	-31-5 2 MC 2 MC	2 MG/M3 2 MG/M3 4 MG/M3 2 MG/M3				
STEL (CH) TWA (CH) TWA (CH) TWA (ACGIH USA) TWA (CA) TWA (FI) TWA (JP) TWA (ME) TWA (ME) TWA (MIOSH USA) TWA (OSHA USA)	ANFIMONY	231-146-	0.5 0.5 0.5	5-0 1.5 Mg/M3 0.5 Mg/M3 Mg/M3 0.5 Mg/M3 0.5 Mg/M3 0.1 Mg/M3 Mg/M3 Mg/M3				
TWA (ACGIH) TWA (CA CN) STEL (CA QU) TWA (CA QU) TWA (CA QU) STEL (CH) TWA (CH) STEL (FI) TWA (FI) CEILING (DE) MAK (DE) CEILING (JP) TWA (ME) TWA (ME) TWA (MIOSH) TWA (OSHA)	SULFURIC ACID	231-639-5	1 MG	1 MG/M3 MG/M3 0.1 MG/M3 FRACTIO 0.1 MG/M3	INHALABLE			
TWA (ACGIH) TWA(CA ON) TWA(CA OU) STEL(CH) TWA(CH) TWA(CH) BIOLOGICAL LIMIT VALUE (FI) TWA(JP)	LEAD	231-100-	MG/MB 0.05	-1 0.05 MG/M 0.05 MG/M3 0.05 MG/M3 0.15 (0.09) DUST (F (0.03) MG/M3 MG/M3 1.4 UMOL/ MG/M3	DESTGNATED SUBSTANCE REGULATION UME) DUST (FUME)			

TWA (ME) TWA (NIOSH) TWA (OSHA)

NG/M3 AS Pb. DUST 0.05 MG/M3 AND 50 UG/M3 0.15 MG/M3 AND FUNE

8.2 EXPOSURE CONTROLS:

8.2.1 APPROPRIATE ENGINEERING CONTROLS: STORE AND CHARGE IN A WELL-VENTILATED AREA. GENERAL DILUTION VENTILATION IS ACCEPTABLE.

8.2.2 PERSONAL PROTECTIVE EQUIPMENT:

8.2.2.1 PICTOGRAMS: FACE SHIELD

GLOVES APRON

8.2.2.2 Eye/Face protection: wear protective eyemear (goggles, face shield or safety glasses with Side shields).

8.2.2.3 SKIN PROTECTION:

WEAR PROTECTIVE GLOVES.

NO SKIN PROTECTION IS ORDINARILY REQUIRED UNDER NORMAL CONDITIONS OF USE. IN ACCORDANCE WITH INDUSTRIAL HYGIENE FRACTICES. IF CONTACT WITH LEAKING PATTERY IS EXPECTED, PRECAUTIONS SHOULD BE TAKEN TO AVOID SKIN CONTACT. UNDER SEVERE EXPOSURE OR EMERGENCY CONDITIONS, WEAR ACID RESISTANT CLOTHING AND BOOTS.

8.2.2.4 RESPIRATORY PROTECTION: IN CASE OF INSUFFICIENT VENTILATION, WEAR SUITABLE RESPIRATORY EQUIPMENT.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES -

9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES:

9.1.1 APPEARANCE:

PHYSICAL STATE: SOLID

COLOR: CLEAR (ELECTROLYTE)

ODOR: ODORLESS

ODOR THRESHOLD: NO DATA

9.1.2 SAFETY RELEVANT BASIC DATA:

PH (20 DEG. C): NO DATA

MELTING POINT/RANGE (DEG. C): NO DATA

INITIAL BOILING POINT/RANGE (DEG. C): 95-95.555

DECOMPOSITION TEMPERATURE (DEG. C): NO DATA

FLASH POINT (DEG. C): NO DATA

EVAPORATION RATE: NOT APPLICABLE

LOWER EXPLOSIVE LIMIT: 4.1% (HYDROGEN)
UPPER EXPLOSIVE LIMIT: 74.2% (HYDROGEN)

IGNITION TEMPERATURE (DEG. C): NO DATA.

VAPOR PRESSURE (HPA): 10 MMHq.

VAPOR DENSITY (AIR = 1): 1

DENSITY (G/CM3)AT DEG. C: 75.8523-84.2803 LBS/FT3.

BULK DENSITY (KG/M3): NO DATA.

WATER SOLUBILITY (20 DEG. C IN G/L): 100%

SOLUBILITY (IES): NO DATA.

PARTITION COEFFICIENT: NO DATA.

N-OCTANOL/WATER (LOG PO/W): NO DATA.

VISCOSITY, DYNAMIC (MPA S): NO DATA,

9.1.3 PHYSICAL HAZARDS: FLAMMABLE GASES, METAL CORROSION,

9.2 OTHER SAFETY INFORMATION:

PROPERTIES OF EXPLOSIVE ATMOSPHERES (MIXTURES):

GASES AND VAPORS: NO DATA.

DUSTS: NO DATA.

PHYSICAL CHEMICAL PROPERTIES OF NANOPARTICLES; NO DATA,

LIMITING OXYGEN CONCENTRATION: NO DATA.

BULK DENSITY: NO DATA.

SOLUBILITY IN DIFFERENT MEDIA: NO DATA.

STABILITY IN ORGANIC SOLVENTS AND IDENTITY OF RELEVANT DEGRADATION PRODUCTS: NO DATA.

EVAPORATION RATE: NO DATA.

CONDUCTIVITY: NO DATA.

SURFACE TENSION: NO DATA.

DISSOCIATION CONSTANT IN WATER (PKA): NO DATA.

OXIDATION-REDUCTION POTENTIAL: NO DATA.

FAT SOLUBILITY (SOLVENT - OIL TO BE SPECIFIED): NO DATA.

#### SECTION 10: STABILITY AND REACTIVITY

- 10.1 REACTIVITY: NOT REACTIVE
- 10.2 CHEMICAL STABILITY: STABLE UNDER NORMAL TEMPERATURES AND PRESSURES.
- 10.3 POSSIBILITY OF HAZARDOUS REACTIONS: HAZARDOUS POLYMERIZATION WILL NOT OCCUR.
- 10.4 CONDITIONS TO AVOID: PROLONGED OVERCHARGE, SOURCES OF IGNITION.
- 10.5 INCOMPATIBLE MATERIALS:

SULFURIC ACID:

SOLEVARY ACTOR

CONTACT WITH COMBUSTIBLE AND ORGANIC MATERIALS MAY CAUSE FIRE AND EXPLOSION. ALSO REACTS VIOLENTLY WITH STRONG REDUCING AGENTS, METIALS, SULFUR TRIOXIDE, STRONG OXIDIZERS AND MATER. CONTACT WITH METALS MAY PRODUCT TOXIC SULFUR DIOXIDE FURES AND MAY RELEASE FLAMMABLE HYDROGEN GAS.

LEAD COMPOUNDS:

AVOID CONTACT WITH STRONG BASES, ACIDS, COMBUSTIBLE ORGANIC MATERIALS, HALIDES, HALCGENATES, FOTASSIUM NITRATE, PERMANCANATE, PEROXIDES, NASCENT HYDROGEN, REDUCING AGENTS AND WATER.

6 HAZARDOUS DECOMPOSITION PRODUCTS LEAD COMPOUNDS EXPOSED IN HIGH TRAPERATURES WILL LIKELY PRODUCE TOXIC METAL LEAD COMPOUNDS EXPOSED IN HIGH TRAPERATURES WILL LIKELY PRODUCE TOXIC METAL FUME, VAPOR OR DUST; CONTACT WITH STRONG ACID/BASE OR PRESENCE OF NASCENT HYDROGEN MAY GENERATE HIGHLY TOXIC ARSINE GAS, SULFURIC ACID: SULFUR TRIOXIDE, CARBON MONOXIDE, SULFURIC ACID MIST, SULFUR DIOXIDE AND HYDROGEN.

	— SECTI	ON 11: 1	OXICOLO	GICAL IN	FORMATION	T	
11.1 INFORMATION ON TOXICOLOGICAL EFFECTS;							
LEAD (7439-92-1)		EFFEC	r dose /	/ SPECIE	ES METHO	DD TIME	
ACUTE ORAL TOXIC	ITY	155 MX	3/KG	HUMAN	LDLO		
ACUTE ORAL TOXICI	TY	1050 UG	/KG	RAT	TDLO	30 WEEKS(INT.)	
ACUTE INHALATIVE TOXICITY (DUST/M	IST)	0.011 M	G/M3	HUMAN	rcto	26 WEEKS (INT.	
MUTAGEN	23 UG/1	M3	RAT	INHAI	LATION	16 WEEKS	
REPRODUCTIVE		790 M	g/kg	RAT	TDLO	(ORAL)	
REPRODUCTIVE		3 MG/MB		RAT	TCLO (INHA	1~21 DAYS PRES	
SULFURIC ACID (7664-93-9)	EFFECT	DOSE / CONCEN	SPECIE VIRATION		OD O	TIME	
ACUTE ORAL TOXIC	ITY	2140 N	/G/KG	RAT	LD50		
ACUIE INHALATIVE TOXICITY (VAPOR)		30 MG/M	13	GUINEA PIG	ICLO	7 DAYS (CON.)	
ACUTE INHALATIVE TOXICITY (VAPOR)		510 M	G/M3	RAT	LC50	2 HOURS	
ACUTE INHALATIVE TOXICITY (VAPOR)		3 MG/N	43	HUMAN	rcro	24 WEEKS	
IRRITATION		5 MG		RABBIT	SEV (EY.	E) 30 SECOND RINS	
IRRITATION		250 UC	3	RABBIT	r sev	(EYE)	
ANTIMONY (7440-3	6-0)		DOSE /		es metho	DD TIME	
ACUTE ORAL TOXIC	ITY	100 MG	g/kg	RAT	LD50		
ACUTE INHALATIVE TOXICITY (DUST/M	IST)	13.5 N	/IG/M3	HUMAN	rcro	4 HOURS	
TUMORIGEN/CARCINO	GEN	50 MG/M	3	RAT	TCLO	7 HOURS 52 WEEKS (INT.)	
ARSENIC (7440-38	-2}		DOSE /		SS METHO	DD TIME	
ACUTE ORAL TOXIC	ITY	763 MG	e/kg	RAT	LD50		
ACUTE ORAL TOXIC	ITY	5 MG/F	(G	RAT	LDLO		
MUTAGEN	0.211	MG/L	HUMAN	ORAL		15 YEARS	
REPRODUCTIVE		605 UG/	KG	RAT	TOLO	35 WEEKS PREG.	
11.2 OTHER INFOR	MATTON:						

## 11.2 OTHER INFORMATION:

11.2.1 CARCINOGENIC EFFECIS:
THE INTERNATIONAL AGENCY FOR RESEARCH ON CANCER (IARC) HAS CLASSIFIED
"STRONG INORGANIC ACID MIST CONTAINING SULFURIC ACID" AS A CATEGORY 1
"STRONG INORGANIC ACID MIST CONTAINING SULFURIC ACID" AS A CATEGORY 1
CARCINOGEN, A SUBSTANCE THAT IS CARCINOGENIC TO HUMANS, THIS CLASSIFICATION
DOES NOT APPLY TO LIQUID FORMS OF SULFURIC ACID OR SULFURIC ACID SOLUTIONS
CONTAINED WITHIN A BATTERY. BATTERIES SUBJECTED TO ABUSIVE CHARGING AT
EXCESSIVELY HIGH CURRENIS FOR PROLOMED PERIODS WITHOUT VENT CAPS IN PLACE
MAY CREATE A SURROUNDING AIMOSPHERE OF THE OFFENSIVE STRONG INORGANIC ACID
MIST CONTAINING SULFURIC ACID.

CARCINOGENIC EFFECTS:

CAS IARC פידע SULFURIC ACID 7664-93-9 GROUP 1-CARCINOGENIC NOT ESTABLISHED LEAD 7439-92-1 GROUP 2A-PROBABLE CARCINOGEN REASONABLY ANTICIPATED TO BE HUMAN CARCINGGEN

11.2.2 ROUTES OF EXPOSURE:

11.2.2.1 IN CASE OF INGESTION:

ACUTE (IMMEDIATE): UNDER NORMAL CONDITIONS OF USE, NO HEALTH EFFECTS ARE EXPECTED. LEAD INCESTION MAY CAUSE ADDOMINAL PAIN, NAUSEA, VOMITING, DIARRHEA AND SEVERE

CHRONIC (DELAYED): NO DATA AVAILABLE

11.2.2.2 IN CASE OF SKIN CONTACT:

ACUTE (IMMEDIATE): UNDER NORMAL CONDITIONS OF USE, NO HEALTH EFFECTS ARE EXPECTED.

CHRONIC (DELAYED): NO DATA AVAILABLE

11.2.2.3 IN CASE OF INHALATION:

ACUTE (IMMEDIATE):

UNDER NORMAL CONDITIONS OF USE, NO HEALTH EFFECTS ARE EXPECTED. CONTENTS OF AN OPEN BATTERY CAN CAUSE RESPIRATORY IRRITATION.

CHRONIC (DELAYED): REPEATED AND PROLONGED EXPOSURE MAY CAUSE IRRITATION.

11.2.2.4 IN CASE OF EYE CONTACT:

ACUTE (IMMEDIATE): UNDER NORMAL CONDITIONS OF USE, NO HEALTH EFFECTS ARE EXPECTED. EXPOSURE TO DUST MAY CAUSE IRRITATION.

CHRONIC (DELAYED); NO DATA AVAILABLE

#### - SECTION 12: ECOLOGICAL INFORMATION

12.1 TOXICITY: AQUATIC TOXICITY.

1.1 SUBSTANCES: ACUTE (SHORT-TERM) TOXICITY: SULFURIC ACID

EXPOSURE SPECIES METHOD EVALUATION REMARK EFFECT DOSE TIME

82 MG/L 24 HOURS BRACHYDANIO RERIO LC50

22 MG/L 96 HOURS CYPRINUS CARPIO LOEC LOWEST OBSERVE

12.2 ENVIRONMENTAL FATE:
LEAD IS VERY PERSISTENT IN SOIL AND SEDIMENTS. NO DATA ON ENVIRONMENTAL
DESPADATION. MOBILITY OF METALLIC LEAD BETWEEN SCOLOGICAL COMPARTMENTS IS
SIOW. BIOACCUMILATION OF LEAD OCCURS IN AQUATIC AND TERRESTRIAL ANTWALS AND
PLANTS BUT LITTLE BIOACCUMULATION OCCURS THROUGH THE FOOD CHAIN, MOST
STOFIES INCLUDE LEAD COMPOUNDS AND NOT ELEMENTAL LEAD.

CONCENTRATION

#### SECTION 13: DISPOSAL CONSIDERATIONS -

- 13.1 WASTE TREATMENT METHODS:
- 13.1.1 PRODUCT/PACKAGING DISPOSAL: DISPOSE OF CONTENT AND/OR CONTAINER IN ACCORDANCE WITH LOCAL, REGIONAL, NATIONAL, AND/OR INTERNATIONAL REGULATIONS.
- 13.1.2 WASTE CODES/WASTE DESIGNATIONS ACCORDING TO EWC/AVV: 16 06 01\*

13.2 ADDITIONAL INFORMATION: ANY WASTE MARKED WITH AN ASTERISK (\*) IS CONSIDERED AS A HAZARDOUS WASTE PURSUANT TO DIRECTIVE 91/689/EBC ON HAZARDOUS WASTE, AND SUBJECT TO THE PROVISIONS OF THAT DIRECTIVE UNLESS ARTICLE 1(5) OF THAT DIRECTIVE APPLIES.

## - SECTION 14: TRANSPORT INFORMATION -

- 14.1 LAND TRANSPORT (CFR 49: DOT):
  THESE BATTERIES HAVE BEEN TESTED AND MEET THE NON-SPILLABLE CRITERIA LISTED
  IN 49 CFR 173.159(F) (1) AND (2). NON-SPILLABLE BATTERIES ARE EXCEPTED FROM
  THE PACKAGING REQUIREMENT OF 49 CFR 173.159A PROVIDED THAT THE FOLLOWING CRITERIA ARE MET.
- 1.) THE BATTERIES MUST BE PROTECTED AGAINST SHORT CIRCUITS AND SECURELY PACKAGED.
- 2.) THE BATTERIES AND THEIR CUTER PACKAGING MUST BE PLAINLY AND DURABLY MARKED "NON-SPILLABLE" OR "NONSPILLABLE BATTERY".

UN-NO: UN2800 PROPER SHIPPING NAME: BATTERIES, WET, NON-SPILLABLE. CLASS(ES): 8 HAZARD LABEL(S): 8

SPECIAL PROVISIONS/EXCEPTIONS: 159A

14.2 LAND TRANSPORT (ADR/RID/GGVSEB):
NON-SPILLABLE BATTERIES ARE NOT SUBJECT TO THE REQUIREMENTS OF ADR IF, AT
A TEMPERATURE OF 55C, THE ELECTROLYTE WILL NOT FLOW FROM A RUPTURED OR
CRACKED CASE AND THERE IS NO FREE LIQUID TO FLOW AND IF, AS FACKAGED FOR
CARRIAGE, THE TERMINALS ARE PROTECTED FROM SHORT CIRCUIT.

UN-NO: UN2800 OR TOO GROUP OF THE PROPER SHIPPING NAME: BATTERIES, WET, NOT-SPILLABLE. CLASSIFICATION CODE: C11 HAZARD LABEL(S) SPECIAL PROVISION(S): 238, 295, 598

14.3 LAND TRANSPORT (TDG):

THESE BATTERIES HAVE BEEN TESTED AND MEET THE NON-SPILLABLE CRITERIA. NON-SPILLABLE BATTERIES ARE EXCEPTED PROVIDED THAT THE FOLLOWING CRITERIA ARE MET:

- THE BATTERIES MUST BE PROTECTED AGAINST SHORT CIRCUITS AND SECURELY PACKAGED
- 2.) THE BATTERIES AND THEIR OUTER PACKAGING MUST BE PLAINLY AND DURABLY MARKED "NON-SPILLABLE" OR "NON SPILLABLE BATTERY."

PROPER SHIPPING NAME: BATTERIES, WET, NON-SPILLABLE. CLASS (ES) · 8 HAZARD LABEL(S): 8

SPECIAL PROVISION(S): 39

14.4 SEA TRANSPORT (IMDG-CODE/GGVSEE):
THESE BATTERIES HAVE BEEN TESTED AND MEET THE NON-SPILLABLE CRITERIA LISTED
IN INDG CODE SPECIAL PROVISION 238.1 AND.2; THEREFORE, ARE NOT SUBJECT TO
THE FROVISIONS OF THE IMDG CODE PROVIDED THAT THE BATTERY TERMINALS ARE PROTECTED AGAINST SHORT CIRCUITS WHEN PACKAGED FOR TRANSPORT.

UN NO: UN2800 PROPER SHIPPING NAME: BATTERIES, WET, NON-SPILLABLE. CLASS(ES): 8
MARINE POLLUTANT: NO
SPECIAL PROVISION(S): 29, 238

14.5 AIR TRANSPORT (ICAO-IATA/DGR):
UNIVERSAL POWER GROUP, INC. VRIA BATTERIES HAVE BEEN TESTED AND MEET THE
UNIVERSAL POWER GROUP, INC. VRIA BATTERIES HAVE BEEN TESTED AND MEET THE
NON-SPILLABLE CRITERIA LISTED IN IATA PACKING INSTRUCTION 872 AND SPECIAL
PROVISION A67. THESE BATTERIES ARE EXCEPTED FROM ALL IATA REGULATIONS
PROVIDED THAT THE BATTERY TERMINALS ARE PROTECTED AGAINST SHORT CIRCUITS.
THE WORDS "NOT RESTRICTED, AS PER SPECIAL PROVISION A67" MUST BE INCLUDED
IN THE DESCRIPTION ON THE AIR WAYBILL.

UN NO: UN2800 PROPER SHIPPING NAME: BATTERIES, WET, NON-SPILLABLE. CLASS(ES): 8

SPECIAL PROVISION(S): A48, A67, A164, A183

- SECTION 15: REGULATORY INFORMATION -

15.1 SAFETY, HEALIH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE MIXTURE;

15.1.1 NATIONAL REGULATIONS (CANADA):

WHMIS CLASSIFICATION: CLASS E: CORROSIVE MATERIALS PRESENT AT GREATER THAN 1%

THIS PRODUCT HAS BEEN CLASSIFIED IN ACCORDANCE WITH THE HAZARD CRITERIA OF THE CONTROLLED PRODUCTS REGULATIONS (CFR) AND THE MSDS CONTAINS ALL THE INFORMATION REQUIRED BY THE CONTROLLED PRODUCTS REGULATIONS.

THE FOLLOWING SUBSTANCES ARE LISTED ON THE CANADIAN DSL: LEAD (7439-92-1); SULFURIC ACID (7664-93-9); ANTIMINY (7440-36-0); TIN (7440-31-5); ARSENIC (7440-38-2); CALCIUM (7440-70-2)

CANADA NDSL:

NONE OF THE COMPONENTS ON THIS SDS ARE LISTED ON THE CANADIAN NDSL:

WHMIS: INGREDIENT DISCLOSURE LIST

SUBSTANCE

CAS NO.

WT % DISCLOSURE LIMIT %

CALCIUM

7440-70-2 0.002% NOT LISTED

SULFURIC ACID

7664-93-9 10-30% 1%

LEAD

7439-92-1 63-78% 0.1%

LEAD AS LEAD COMPOUNDS

63~78% NOT LISTED

LEAD AS LEAD, INORGANIC COMPOUNDS

63-78%

TIN

7440-31-5 0.006%

ANTIMONY

7440-36-0 0.2% 1%

ANTIMONY AS ANTIMONY COMPOUNDS

0.2% 1%

ARSENIC

7440-38-2 0.003% 0.1%

CEPA: PRIORITY SUBSTANCES LIST

SUBSTANCE

CAS NO. WT % STATUS

CALCIUM

7440-70-2 0,002% NOT LISTED

SULFURIC ACID

7664-93-9 10-30% NOT LISTED

LEAD

7439-92-1 63-78% NOT LISTED

LEAD AS LEAD COMPOUNDS

63-78% NOT LISTED

LEAD AS LEAD, INORGANIC COMPOUNDS

63-78% NOT LISTED

TIN

7440-31-5 0.006% NOT LISTED

ANTIMONY

7440-36-0 0.2% NOT LISTED

ANTIMONY AS ANTIMONY COMPOUNDS

NOT LISTED

ARSENIC

7440-38-2 0.003% NOT LISTED

15.1.2 NATIONAL REGULATIONS (CHINA):

THE FOLLOWING COMPONENTS ARE LISTED ON THE INVENTORY LIST FOR CHINA: LEAD (7439-92-1); SULFURIC ACID (7664-93-9); ANTIMONY (7440-36-0); TIN (7440-31-5); ARSENIC (7440-38-2); CALCIUM (7440-70-2).

15.1.3 NATIONAL REGULATIONS (EUROPEAN UNION):

CLASSIFICATION: XI; C

RISK PHRASES: R35, R36, R38

SAFETY PHRASES: S1/2, S26, S30, S45

THE FOLLOWING COMPONENTS ARE LISTED ON THE EU EINECS: LEAD (7439-92-1); SULFURIC ACID (7664-93-9); ANTIMENY (7440-36-0); TIN (7440-31-5); ARSENIC (7440-38-2); CALCIUM (7440-70-2).

NONE OF THE ABOVE MENTIONED COMPONENTS ARE LISTED ON THE EU ELNICS.

CLP (1272/2008) CONCENTRATION LIMITS:

SUBSTANCE	CAS	WT %	CONCENTRATION LIMIT
CALCIUM	7440-70-2	0.002	NOT LISTED
SULFURIC ACID	7664-93-9	10-30	15%<=C: C; R35 5%<=C<15%: XI; R36/38
LEAD	7439-92-1	63-78	NOT LISTED
LEAD AS LEAD COMPOUNDS		63-78	2.5%<=C: REPR. CAT. 3; R62 1%<=C: XN; R20/22 0.5%<=C: R33
LEAD AS LEAD, INORGANIC COMPOUNDS		63-78	NOT LISTED
TIN	7440-31-5	0.006	NOT LISTED
ANTIMONY	7440-36-0	0.2	NOT LISTED
ANTIMONY AS ANTIMONY COMPOUNDS		0.2	0.25%<=C: XN; R20/22
ARSENIC	7440-38-2	0.003	NOT LISTED
SUBSTANCE	CAS	Wr %	SUBSTANCES AND PREPARATIONS
CALCIUM	7440-70-2	0.002	NOT LISTED
SULFURIC ACID	7664-93-9	10-30	В
LEAD	7439-92-1	63-78	NOT LISTED
LEAD AS LEAD COMPOUNDS	63-78	A, E,	1 (EXCEPT THOSE SPECIFIED ELSEWHERE IN THE ANNEX)
LEAD AS LEAD, INORGANIC COMPOUNDS		63-78	NOT LISTED
TIN	7440-31-5	0.006	NOT LISTED
ANTIMONY	7440-36-0	0.2	NOT LISTED

ANTIMONY AS ANTIMONY COMPOUNDS

A, 1 (EXCEPT TETROXIDE, PENTOXIDE, TRISULPHIDE, PENTASULPHIDE AND THOSE SPECIFIED ELSEWHERE IN THE ANNEX)

ARSENTO

7440-38-2 0.003 NOT LISTED

GERMANY:

LEAD RESTRICTIONS:

LEAD CONCENTRATION IN THE ELOOD ABOVE 300 (MICRO)G/L IN MALE EMPLOYEES AND 100 (MICRO)G/L IN FEMALE EMPLOYEES REQUIRES ADDITIONAL TRAINING FOR PERSONAL HYGIENE AND VIGILANCE. LEAD CONCENTRATION IN THE BLOOD ABOVE 350 (MICRO)G/L IN MALE EMPLOYEES AND 200 (MICRO)G/L IN FEMALE EMPLOYEES AND 200 (MICRO)G/L IN FEMALE EMPLOYEES (LEAD CONCENTRATION IN THE BLOOD ABOVE 400 (MICRO)G/L IN FEMALE EMPLOYEES AND 300 (MICRO)G/L IN FEMALE EMPLOYEES REQUIRES ADDITIONAL TRAINING FOR PERSONAL HYGIENE AND VIGILANCE; SEE TRGS 505 FOR DETAILED REGULATIONS REGARDING LEAD AND LEAD COMPOUNDS.

EMPLOYMENT RESTRICTIONS FOR EMPLOYEES BELOW THE AGE OF 18 YEARS: EMPLOYMENT RESTRICTIONS FOR EMPLOYEES BELLOW THE AGE OF 18 YEARS; EMPLOYMENT RESTRICTIONS FOR PRESNANT OR BREASTFEEDING WOMEN; PROHIBITED FOR USE AT HOME BASED WORKPLACES; RESTRICTIONS APPLY FOR USE OF LEAD COMPOUNDS IN PACKAGING MATTERIAL, DRINKING WATTER SYSTEMS, CARS, ELECTRICAL AND ELECTRONICAL DEVICES; SEE TRGS 505 FOR DETAILED RESULATIONS REGARDING LEAD AND LEAD COMPOUNDS.

EMISSION LIMITS FOR INORGANIC DUSTS:

SUBSTANCE CAS WT % EMISSION LIMIT CALCIUM 7440-70-2 0.002 NOT LISTED SULFURIC ACID 7664-93-9 10-30 NOT LISTED

LEAD

7439-92-1 63-78 2.5 G/H MASS FLOW (CLASS II); 0.5 MG/M3 MASS CONCENTRATION (CLASS II)

LEAD AS LEAD COMPOUNDS

63-78 2.5 M/H MASS FLOW (CLASS II, AS Pb); 0.5 MG/M3 MASS CONCENTRATION (CLASS II, AS Pb)

LEAD AS LEAD, INORGANIC COMPOUNDS

63-78 NOT LISTED

TIN

ANTIMONY

7440-31-5 0.006 5 G/H MASS FLOW (CLASS III); 1 MG/MB MASS CONCENTRATION 1 MG/MB MAS (CLASS III) 7440-36-0 0.2

5 G/H MASS FLOW (CLASS III); 1 MG/M3 MASS CONCENTRATION (CLASS III)

ANTIMONY AS ANTIMONY COMPOUNDS

5 G/H MASS FLOW (CLASS III, A Sb); 1 MG/M3 MASS CONCENTRAIN (CLASS III, AS Sb)

ARSENIC 7440-38-2 0.003 NOT LISTED 15.1.4 NATIONAL REGULATIONS (JAPAN):

THE FOLLOWING CHEMICALS ARE ON THE JAPANESE ENCS: LEAD (7439-92-1); SULFURIC ACID (7664-93-9); ANTIMONY (7440-36-0); TIN (7440-31-5); ARSENIC (7440-38-2); CALCIUM (7440-70-2).

ISHL HARMFUL SUBSTANCES WHOSE NAMES ARE TO BE INDICATED ON THE LABEL:

SUBSTANCE

WT % LIMIT

CALCIUM

7440-70-2 0.002 NOT LISTED

SULFURIC ACID

7664-93-9 10-30 NOT LISTED

LEAD	7439-92-1	63-78 0.1% WEIGHT	1			(AS Pb)
LEAD AS LEAD COMPOUNDS		).1% WEIGHT	LEAD AS LEAD, INORGANIC COMPOU	NDS	63-78	NOT LISTED
LEAD AS LEAD, INORGANIC COMPO	UNDS	63-78 NOT LISTED	TIN	7440-31-5	0.006	NOT LISTED
TIN	7440-31-5	0.006 NOT LISTED	ANTIMONY	7440-36-0	0.2	NOT LISTED
ANTIMONY	7440-36-0	0.2 NOT LISTED	ANTIMONY AS ANTIMONY COMPOUNDS		0.2	NOT LISTED
ANTIMONY AS ANTIMONY COMPOUND	OS 0.2 M	NOT LISTED	ARSENIC	7440-38-2 0.00	3 0.003	MG/M3 ACL
ARSENIC	7440-38-2 0.003 0	).1% WEIGHT	15.1.5 NATIONAL REGULATIONS (KC	REA):		
ISHL PREVENTION OF LEAD POISO			THE FOLLOWING SUBSTANCES ARE L LEAD (7439-92-1); SULFURIC ACID	(7664~93-9); AN	TIMONY (74	: 140-36-0); TIN
SUBSTANCE	CAS	WT % STATUS	(7440-31-5); ARSENIC (7440-38-		40-70-2)	
CALCIUM SULFURIC ACID	7440-70-2 0.002 7664-93-9 10-30	NOT LISTED	15.1.6 NATIONAL REGULATIONS (ME			-
LEAD	7664-93-9 10~30 7439-92-1	NOT LISTED 63-78 NOT LISTED	POLLUTANT RELEASE AND TRANSFER	REGISTER:		
LEAD AS LEAD COMPOUNDS	63-78	NOT LISTED	REPORTING EMISSIONS: SUBSTANCE	CAS	WT %	THRESHOLD
LEAD AS LEAD, INORGANIC COMPO		63-78 NOT LISTED	SOBSTANCE	CAS	MT 4	QUANTITIES
TIN	7440-31-5	0.006 NOT LISTED	CALCIUM	7440-70-2	0.002	NOT LISTED
ANTIMONY	7440-36-0	0.2 NOT LISTED	SULFURIC ACID	7664-93-9	10-30	NOT LISTED
ANTIMONY AS ANTIMONY COMPOUND		NOT LISTED	LEAD	7439-92-1	63-78	NOT LISTED
ARSENIC	7440-38-2 0,003	NOT LISTED	LEAD AS LEAD COMPOUNDS		63~78	1 KG/YR TQ
ISHL NOTIFIABLE SUBSTANCES:			LEAD AS LEAD, INORGANIC COMPOU	IDS	63-78	NOT LISTED
SUBSTANCE	CAS	WT % LIMIT	TIN	7440-31-5	0.006	NOT LISTED
CALCIUM	7440-70-2 0.002	NOT LISTED	ANITMONY	7440-36-0	0.2	NOT LISTED
SULFURIC ACID	7664-93-9 10-30	1% WEIGHT	ANTIMONY AS ANTIMONY COMPOUNDS		0.2	NOT LISTED
LEAD	7439-92-1	63-78 0.1% WEIGHT	ARSENIC	7440-38-2	0.003	1 KG/YR TQ
LEAD AS LEAD COMPOUNDS	63-7B	NOT LISTED	15.1.7 NATIONAL REGULATIONS (UN	·	_	
LEAD AS LEAD, INORGANIC COMPO	UNDS	63-78 0.1% WEIGHT	THE FOLLOWING SUBSTANCES ARE ON LEAD (7439-92-1); SULFURIC ACID	(7664-93-9); AN.	PIMONY (74	40-36-0); TIN
TIN	7440-31-5	0.006 0.1% WEIGHT	(7440-31-5); ARSENIC (7440-38-	•		
ANTIMONY	7440-36-0	0.2 0.1% WEIGHT	THE FOLLOWING SUBSTANCES ARE O	(7664-93-9); AN.	PEMONY (74	440-36-0); TIN
ANTIMONY AS ANTIMONY COMPOUND	S 0.2	0.1% WEIGHT	(7440-31-5); ARSENIC (7440-38-	; CALCIUM (74	40-70-2).	
ARSENIC	7440-38-2 0.003	0.1%WEIGHT	OSHA:	a.		
AIR POLLUTION CONTROL LAW:			SPECIFICALLY REGULATED CHEMICA	-	TITO	
EMISSION STANDARDS FOR AIR PO	LLUTANTS:		SUBSTANCE CAS CALCIUM 7440-7	WI % LIM		
SUBSTANCE	CAS	WT % EMISSION LIMIT		)-2 0.002 NOT 3-9 10-30 NOT		
CALCIUM	7440-70-2 0.002	NOT LISTED				G/MB ACTION LEVEL
SULFURIC ACID	7664-93-9 10-30	NOT LISTED	143.	(POISON,		R 1910.1025);
LEAD	7439-92-1	63-78 10-30 MG/NM3	LEAD AS LEAD COMPOUNDS	63~78 NOT		ro ma
LEAD AS LEAD COMPOUNDS	63-78	10-30 MG/NM3		3-78 30 (MICRO		TON LEWET.
LEAD AS LEAD, INORGANIC COMPO	UNDS	63-78 NOT LISTED	COMPOUNDS	(	POISON, SE	SE 29 CFR 1910.1025 3/M3 TWA (AS
TIN	7440-31-5	0.006 NOT LISTED		Pb)	. (	-,1-2 (1-2
ANTIMONY	7440-36-0	0.2 NOT LISTED	TIN 7440-3	L-5 0.006 NOT	LISTED	
ANTIMONY AS ANTIMONY COMPOUND		NOT LISTED	ANTIMONY 7440-3	5-0 0.2 NOT	LISTED	
ARSENIC	7440-38-2 0.003	NOT LISTED	ANTIMONY AS ANTIMONY COMPOUNDS	0.2 NOT	LISTED	
POLLUTANT RELEASE TRANSFER RE	GISTER (PRTR):		ARSENIC 7440-3	3-2 0.003 NOT	LISTED	
CLASS 1 SUBSTANCES:			CAA:			
SUBSTANCE	CAS	WT % STATUS	1990 HAZARDOUS AIR POLLUTANTS:			
CALCIUM	7440-70-2 0.002	NOT LISTED	SUBSTANCE CAS	WT % LIM	IT	
SULFURIC ACID	7664-93-9 10-30	NOT LISTED	CALCIUM 7440-7	)-2 0.002 NOT	LISTED	
LEAD AS LEAD COMPOUNDS	7439-92-1	63-78 304	SULFURIC ACID 7664-9	-9 10-30 NOT	LISTED	
DEAD AS LEAD COMPOUNDS	63-78	305 (DESIGNATED CLASS 1 SUBSTANCE)	LEAD 7439-9	-1 63-78 NOT	LISTED	
LEAD AS LEAD, INORGANIC COMPO	UNDS	63-78 NOT LISTED	LEAD AS LEAD COMPOUNDS	3-78 (INCLUDES	ANY UNIQU	JE CHEMICAL
TIN	7440-31-5	0.006 NOT LISTED		SUBSTANCE PART OF I	THAT CONI IS INFRASI	PAINS LEAD AS TRUCTURE)
ANTIMONY	7440-36-0	0.2 31	LEAD AS LEAD, INORGANIC	63-78 NOT	LISTED	
ANTIMONY AS ANTIMONY COMPOUNDS	5 0.2	31		_E 0.00¢ 3****	T T Cumara	
ARSENIC	7440-38-2 0.003	332 (DESIGNATED CLASS 1 SUBSTANCE)				
ISHL WORKING ENVIRONMENT EVALULEVELS:	UATION STANDARDS: AD	•	ANTIMONY AS ANTIMONY	0.2 (	LISTED INCLUDES A	ANY UNIQUE CHEMICAL
SUBSTANCE	CAS	WT % LIMIT	COMPOUNDS	ANT	LMONY AS I	AT CONTAINS PART OF ITS
CALCIUM	7440~70-2 0.002	WI'S LIMIT	ARSENIC 7440-3		RASTRUCTU	KE)
SULFURIC ACID	7664-93-9 10-30	NOT LISTED	CERCLA/SARA:	-2 0.003 NOT	PERLED	
LEAD		63-78 0.05 MG/MB ACL	HAZARDOUS SUBSTANCES AND THEIR	יייי בומגייים חייםם	pproprese -	
LEAD AS LEAD COMPOUNDS		0.05 MG/M3 ACL	SUBSTANCE CAS			TANTITUTY
	35 ,5 (		possinaria CAS	WT % REPO	ORTABLE Q	UMIVITITY

```
LEAD AS LEAD, INORGANIC COMPOUNDS
SULFURIC ACID
                             7664-93-9 10-30 1000 LB FINAL RQ; 454 KG FINAL
                                                                    RO
                                                               10 LB FINAL RQ (NO REPORTING OF RELEASES OF THIS HAZARTOUS SUBSTANCE IS REQUIRED IF THE DIAMETER OF THE FIELDS OF THE SOLID METAL RELEASED IS LARGER THAN 100 MICROMETERS); 4.54 KG FINAL RQ (NO REPORTING OF RELEASES OF THIS HAZARDOUS SUBSTANCE IS REQUIRED IF THE DIAMETER OF THE PIECES OF THE SOLID METAL RELEASED IS LARGER THAN 100 MICROMETERS)
                                                                                                                TTN
                                                                                                                                                    7440-31-5 0.006
                                                                                                                                                                            NOT LISTED
LEAD
                                        7439-92-1 63-78
                                                                                                                YMOMITMA
                                                                                                                                                    7440-36-0 0.2
                                                                                                                                                                               INCLUDED IN WASTE STREAMS:
                                                                                                                                                                              F039, K021, K161, K177
                                                                                                                ANTIMONY AS ANTIMONY
COMPOUNDS
                                                                                                                                                                              NOT LISTED
                                                                                                                                                                    0.2
                                                                                                                ARSENIC
                                                                                                                                                    7440-38-2 0.003
                                                                                                                                                                              INCLUDED IN WASTE STREAMS:
                                                                                                                                                                              F034, F035, F039, K031,
K084, K101, K102, K161,
K171, K172, K176
                                                                                                                                                                      K060
                                                                                                                D SERIES WASTES:
LEAD AS LEAD COMPOUNDS
                                              63-78 NOT LISTED
                                                                                                                MAX CONCENTRATION OF CONTAMINANTS FOR THE TOXIC CHARACTERISTIC:
                                              63-78 NOT LISTED
LEAD AS LEAD,
INORGANIC COMPOUNDS
                                                                                                                                                                    WT %
                                                                                                                SUBSTANCE
                                                                                                                                                    CAS
                                                                                                                                                                              REGULATORY LEVEL
TIN
                                          7440-31-5 0.006 NOT LISTED
                                                                                                                CALCIUM
                                                                                                                                                    7440-70-2 0.002
                                                                                                                                                                             NOT LISTED
                                                                5000 LB FINAL RO (NO REPORTING
OF RELEASES OF THIS HAZARDOUS
SUBSTANCE IS REQUIRED IF THE
DIAMETER OF THE PIECES OF THE
SOLID METAL RELEASED IS LARGER
THAN 100 MICROMETERS); 2270 KG
FINAL RO (NO REPORTING OF
RELEASES OF THIS HAZARDOUS
SUBSTANCE IS REQUIRED IF THE
SOLID METAL RELEASED IS LARGER
THAN 100 MICROMETERS)
ANTIMONY
                                        7440-36-0 0.2
                                                                                                                SULFURIC ACID
                                                                                                                                                    7664-93-9
                                                                                                                                                                   10-30
                                                                                                                                                                              NOT LISTED
                                                                                                                LEAD
                                                                                                                                                    7439-92-1 63-78
                                                                                                                                                                              5.0 MG/L
                                                                                                                LEAD AS LEAD COMPOUNDS
                                                                                                                                                                             NOT LISTED
                                                                                                                                                                    63-78
                                                                                                                LEAD AS LEAD, INORGANIC
                                                                                                                                                                    63-78
                                                                                                                                                                             NOT LISTED
                                                                                                                TIN
                                                                                                                                                    7440-31-5 0.006 NOT LISTED
                                                                                                                ANTIMONY
                                                                                                                                                    7440-36-0 0.2
                                                                                                                                                                              NOT LISTED
ANTIMONY AS ANTIMONY
                                                          0.2
                                                                    NOT LISTED
                                                                                                                ANTIMONY AS ANTIMONY COMPOUNDS
                                                                                                                                                                    0.2
                                                                                                                                                                              NOT LISTED
COMPOUNDS
                           7440-38-2 0.003 1 LB FINAL RQ (NO REPORTING OF
RELEASES OF THIS HAZARDOUS
SUBSTANCE IS REQUIRED IF THE
DIAMETER OF THE PIECES OF THE
SOLID METIAL RELEASED IS LARGER
THAN 100 MICROMETERS); 0.454 KG
FINAL RQ (NO REPORTING OF
RELEASES OF THIS HAZARDOUS
SUBSTANCE IS REQUIRED IF THE
DIAMETER OF THE PIECES OF THE
SOLID METAL RELEASED IS LARGER
THAN 100 MICROMETERS)
ARSENIC
                                                                                                                ARSENIC
                                                                                                                                                    7440-38-2 0.003 5.0 MG/L
                                                                                                                HAZARDOUS CONSTITUENTS:
                                                                                                                APPENDIX VIII TO 40 CFR 261:
                                                                                                                SUBSTANCE
                                                                                                                                                    CAS
                                                                                                                                                                    WT %
                                                                                                                                                                              STATUS
                                                                                                                CALCIUM
                                                                                                                                                    7440-70-2 0.002
                                                                                                                                                                            NOT LISTED
                                                                                                                SULFURIC ACID
                                                                                                                                                    7664-93-9 10-30 NOT LISTED
                                                                                                                                                        7439-92-1 63-78
                                                                                                                                                                                HAZARDOUS CONSTITUENT - NO WAR
SUBSTANCE
                                                         WT %
                                                                    REPORTABLE QUANTITY
                                         CAS
                                                                                                                                                                              NUMBER
                                                                                                                                                            63-78 HAZARDOUS CONSTITUENT - NO WASTE NUMBER
CALCIUM
                             7440-70-2 0.002 NOT LISTED
                                                                                                                LEAD AS LEAD COMPOUNDS
SULFURIC ACID
                              7664-93-9 10-30 1000 LB EPCRA RQ
                                                                                                                LEAD AS LEAD, INORGANIC COMPOUNDS
                                                                                                                                                                    63-78 NOT LISTED
תמקוד
                                         7439-92-1 63-78 NOT LISTED
LEAD AS LEAD COMPOUNDS
                                              63-78 NOT LISTED
                                                                                                                TTN
                                                                                                                                                   7440-31-5 0.006 NOT LISTED
LEAD AS LEAD, INORGANIC
                                              63-78
                                                       NOT LISTED
                                                                                                                ANT IMONY
                                                                                                                                            7440-36-0 0.2
                                                                                                                                                                     HAZARDOUS CONSTITUENT - NO WASTE
COMPOUNDS
TIN
                                         7440-31-5 0.006 NOT LISTED
                                                                                                                ANTIMONY AS ANTIMONY
                                                                                                                                                                                 HAZARDOUS CONSTITUENT - NO WAS
                                                                                                                                                                       0.2
                                                                                                                                                                              NUMBER
                                                                                                                COMPOUNDS
ANTIMONY
                                         7440-36-0 0.2
                                                                    NOT LISTED
                                                                                                                ARSENIC
                                                                                                                                             7440-38-2 0.003 HAZARDOUS CONSTITUENT - NO WASTE
YNOMITHA SA YNOMITHA
                                                          0.2
                                                                    NOT LISTEL
                                                                                                                                                                              NUMBER
COMPOUNDS
                                                                                                                CALIFORNIA;
ARSENIC
                             7440-38-2 0.003 NOT LISTED
                                                                                                                CALIFORNIA PROPOSITION 65:
SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES TPOS:
                                                                                                                SUBSTANCE
                                                                                                                                                                              STATUS
SUBSTANCE
                                                                THRESHOLD PLANNING ODANITTY
                                                                                                                CALCIUM
                                                                                                                                                    7440-70-2 0.002 NOT LISTED
CALCIUM
                             7440-70-2 0.002 NOT LISTED
                                                                                                                SULFURIC ACID
                                                                                                                                                    7664-93-9 10-30 NOT LISTED
SULFURIC ACID
                             7664-93-9 10-30
                                                       1000 LB TPO
                                                                                                                                                                     33-78 CARCINCGEN(INITIAL DATE 10/1/92); DEVELOPMENTAL TOXICITY(INITIAL DATE 2/27/87); 0.5 G/DAY(MAXIMIM ALLOWABLE DOSE LEVEL); 15 G/DAY ORAL(NO SIGNIFICANT RISK LEVEL); FEMALE REPRODUCTIVE TOXICITY(INITIAL DATE 2/27/87); MALE REPRODUCTIVE TOXICITY(INITIAL)
                                                                                                                                                   7439-92-1
                                                                                                                LEAD
                                                                                                                                                                    63-78
LEAD
                                         7439~92-1 63-78 NOT LISTED
LEAD AS LEAD COMPOUNDS
                                              63-78 NOT LISTED
LEAD AS LEAD, INORGANIC COMPOUNDS
                                              63-78 NOT LISTED
TIN
                                         7440-31-5 0.006 NOT LISTED
ANTIMONY
                                         7440-36-0 0.2
                                                                    NOT LISTED
                                                                                                                LEAD AS LEAD COMPOUNDS
                                                                                                                                                            63-78 CARCINOGEN (INITIAL DATE 10/1/92)
ANTIMONY AS ANTIMONY COMPOUNDS
                                                                                                                                                           63-78 DEVELOPMENTAL TOXICITY (INITIAL DATE 2/27/87)
                                                         0.2
                                                                    NOT LISTED
                                                                                                                LEAD AS LEAD, INORGANIC
                                                                                                                COMPOUNDS
ARSENIC
                             7440-38-2 0.003 NOT LISTED
                                                                                                                TIN
                                                                                                                                                   7440-31-5 0.006 NOT LISTED
RCRA:
                                                                                                                ANTIMONY
                                                                                                                                                   7440-36-0
                                                                                                                                                                              NOT LISTED
                                                                                                                                                                   0.2
BASIS FOR LISTING:
                                                                                                                ANTIMONY AS ANTIMONY
                                                                                                                                                                              NOT LISTED
                                                                                                                                                                   0.2
                                                                                                                COMPOUNDS
APPENDIX VII:
                                                                                                                                                                     .003 0.06 G/DAY INHALATION (NO
SIGNIFICANT RISK LEVEL); 10
G/DAY EXCEPT INHALATION (NO
SIGNIFICANT RISK LEVEL)
                                                                                                                ARSENIC
                                                                                                                                                   7440-38-2 0.003
SUBSTANCE
                                         CAS
                                                         WT %
CALCIUM
                             7440-70-2 0.002 NOT LISTED
SULFURIC ACID
                             7664-93-9 10-30 NOT LISTED
                                                                                                                PENNSYLVANIA:
                                                                B INCLUDED IN WASTE STREAMS:
F035, F037, F038, F039, K002,
K003, K005, K046, K048, K049,
K051, K052, K061, K062, K064,
K065, K066, K069, K086, K100,
LEAD
                                         7439-92-1
                                                         63-78
                                                                                                                ENVIRONMENTAL HAZARD LIST:
                                                                                                                SUBSTANCE
                                                                                                                                                                   WT %
                                                                                                                                                                             REGULATORY LEVEL
                                                                                                                CALCIUM
                                                                                                                                                   7440-70-2 0.002 NOT LISTED
                                                                    K176
                                                                                                               SULFURIC ACID
                                                                                                                                                   7664-93-9 10-30
```

LEAD AS LEAD COMPOUNDS

CALCIUM

7440-70-2 0.002 NOT LISTED

63-78 NOT LISTED

63-78 NOT LISTED

LEAD 7439-92-1 63-78

LEAD AS LEAD COMPOUNDS

63-78

LEAD AS LEAD, INORGANIC

63-78 NOT LISTED

COMPOUNDS

7440-31-5 0.006 NOT LISTED

ANTIMONY

TIN

7440-36-0 0.2

ANTIMONY AS ANTIMONY COMPOUNDS

ARSENIC

7440-38-2 0.003

SPECIAL HAZARDOUS SUBSTANCES:

SUBSTANCE

CAS REGULATORY LEVEL

CALCIUM

7440-70-2 0.002 NOT LISTED

SULFURIC ACID

7664-93-9 10-30 NOT LISTED

LEAD

7439-92-1 63-78 NOT LISTED

LEAD AS LEAD COMPOUNDS

63~78 NOT LISTED

LEAD AS LEAD, INORGANIC COMPOUNDS

ANTIMONY AS ANTIMONY COMPOUNDS

63-78 NOT LISTED

TIN

7440-31-5 0.006 NOT LISTED 7440-36-0 0.2 NOT LISTED

ANTIMONY

0.2 NOT LISTED

ARSENIC

7440-38-2 0.003

RHODE ISLAND:

HAZARDOUS SUBSTANCES LIST:

SUBSTANCE

CAS REGULATORY LEVEL WT &

CALCIUM

7440-70-2 0.002 FLAMMABLE

SULFURIC ACID

7664-93-9 10-30 TOXIC; FLAMMABLE

LEAD

7439-92-1 63-78 TOXIC (DUST AND FUME)

LEAD AS LEAD COMPOUNDS

63-78 NOT LISTED

LEAD AS LEAD, INORGANIC COMPOUNDS

63-78 NOT LISTED

TIN

7440-31-5 0.006 TOXIC

ANTIMONY

7440-36-0 0.2 TOXIC TOXIC

ANTIMONY AS ANTIMONY COMPOUNDS ARSENIC

7440-38-2 0.003 TOXIC: CARCINOGEN

0.2

## - SECTION 16: OTHER INFORMATION -

16.1 RELEVANT R-, H- AND EUH-PHRASES (NUMBER AND FULL TEXT):

HAZARD ABBREVIATIONS:

XI: IRRITANT. XN: HARMFUL. N: DANGEROUS FOR THE ENVIRONMENT.

TOXIC. CORROSIVE

HIGHLY FLAMMABLE.

RISK PHRASES:

R15: CONTACT WITH WATER LIBERATES EXTREMELY FLAMMABLE GASES.

R20/22: HARMFUL BY INHALATION AND IF SWALLOWED.

R23/25: TOXIC BY INHALATION AND IF SWALLOWED.

R33: DANGER OF CUMULATIVE EFFECTS.

R35: CAUSES SEVERE BURNS.

R36: IRRITATING TO EYES.

R38: IRRITATING TO SKIN.

R50: VERY TOXIC TO AQUATIC ORGANISMS.

 $\mbox{R50/53:.}$  VERY TOXIC TO AQUATIC ORGANISMS, MAY CAUSE LONG-TERM ADVERSE EFFECTS IN THE AQUATIC ENVIRONMENT.

R51/53: TOXIC TO AQUATIC ORGANISMS, MAY CAUSE LONG-TERM ADVERSE EFFECTS IN THE AQUATIC ENVIRONMENT

R53; MAY CAUSE LONG-TERM ADVERSE EFFECTS IN THE AQUATIC ENVIRONMENT.

R61: MAY CAUSE HARM TO THE UNBORN CHILD.

R62: POSSIBLE RISK OF IMPAIRED FERTILITY.

SAFETY PHRASES:

S1/2: KEEP LOCKED UP AND OUT OF THE REACH OF CHILDREN.

S2: KEEP OUT OF THE REACH OF CHILDREN.

S8: KEEP CONTAINER DRY.

S20/21: WHEN USING DO NOT EAT, DRINK, OR SMOKE.

\$24/25: AVOID CONTACT WITH SKIN AND EYES

IN CASE OF CONTACT WITH EYES, RINSE IMMEDIATELY WITH PLENTY OF WATER AND SEEK MEDICAL ADVICE.

S28: AFTER CONTACT WITH SKIN, WASH IMMEDIATELY WITH PLENTY OF WATER.

S30: NEVER ADD WATER TO THIS PRODUCT.

S43: IN CASE OF FIRE USE CO2, DRY CHEMICAL, OR FOAM. NEVER USE WATER.

IN CASE OF ACCIDENT OR IF YOU FEEL UNWELL SEEK MEDICAL ADVICE IMMEDIATELY (SHOW THE LABEL WHERE POSSIBLE).

\$53: AVOID EXPOSURE - OBTAIN SPECIAL INSTRUCTIONS BEFORE USE.

THIS MATERIAL AND ITS CONTAINER MUST BE DISPOSED OF AS HAZARDOUS WASTE.

S61:

AVOID RELEASE TO THE ENVIRONMENT. REFER TO SPECIAL INSTRUCTIONS/SAFETY DATA SHEET

HAZARD STATEMENTS: H313: MAY BE HARMFUL IN CONTACT WITH SKIN. H315: CAUSES SKIN IRRITATION. H335: MAY CAUSE RESPIRATORY IRRITATION. EUH201A: WARNING! CONTAINS LEAD.

RISK IN HIS USE OF THE MATERIAL.

PRECAUTIONARY STATEMENTS: P102: KEEP OUT OF REACH OF CHILDREN. P233: KEEP CONTAINERS TIGHTLY CLOSED. P210: KEEP AWAY FROM HEAT, SPARKS, AND OPEN FLAME WHILE CHARGING BATTERIES.

16.2 FURTHER INFORMATION:
THE INFORMATION CONTAINED HEREIN IS BASED ON DATA CONSIDERED ACCURATE,
HOMEVER, NO WARRANTY IS EXPRESSED OR IMPLIED REGARDING THE ACCURACY OF THIS
DATA OR THE RESULTS TO BE OBTAINED FROM THE USE THEREOF. UNIVERSAL POWER
GROUP, INC. ASSUMES NO RESPONSIBILITY FOR INJURY TO THE VENDEE OR THIRD
PERSONS PROXIMATELY CAUSED BY THE MATERIAL IF REASONABLE SAFETY PROCEDURES
ARE NOT ACHIEVED TO AS STIPULATED IN THE DATA SHEET. ADDITIONALLY, UNIVERSAL
POWER GROUP, INC. ASSUMES NO RESPONSIBILITY FOR INJURY TO VENDEE OR THIRD
PERSONS PROXIMATELY CAUSED BY ABNORMAL USE OF THE MATERIAL EVEN IF
REASONABLE SAFETY PROCEDURES ARE FOLLOWED, FURTHERWORE, VENDEE ASSUMES THE
RISK IN HIS USE OF THE MATERIAL.