PRODUCT IDENTITY:	**Lead-Antimony Battery**	
	CDID: Stationary SPg - IB	
MANUFACTURER NAME:	**Alpha Industrial Products/TAB**	
ADDRESS:	1075 Satellite Blvd #400	
	Suwanee, Georgia 30024	**TELEPHONE:** 678-475-3995
	USA	**FAX:** 678-584-9259
		Toll Free: 800-996-6104
24 HOUR EMERGENCY TELEPHONE: Chemtrec: 1-800-424-9300		

SECTION II: COMPOSITION / INFORMATION ON INGREDIENTS				
HAZARDOUS COMPONENT	**CAS#**	**OSHA PEL**	**ACGIH TLV**	**% BY WEIGHT**
***Lead, Lead compounds**	7439-92-1	0.05mg/m3	0.05mg/m3	59 - 62%
***Sulphuric Acid**	7664-93-9	1.0mg/ m3	1.0mg/ m3	6 - 7%
***Antimony**	7440-36-0	0.5mg/m3	0.5mg/m3	1 - 2%
***Arsenic**	7440-38-2	0.5mg/m3	0.01mg/m3	<1%
***Copper**	7440-50-8	1.0mg/m3	1.0mg/m3	<1%
NON-HAZARDOUS INGREDIENTS				
Water	7732-18-5	N/A	N/A	14 - 16%
Inert Components	N/A	N/A	N/A	9 - 14%
SECTION 313 (40 CFR 372) LISTED TOXIC CHEMICALS ARE PRECEDED BY AN *.				

SECTION III: HAZARDS IDENTIFICATION
APPEARANCE AND ODOR: **Colourless, Oily Fluid, Vapours are Colourless; Acrid Odour when Hot or Charging.**
HMIS RATING: **0**=Insignificant **1**=Slight **2**=Moderate **3**=High **4**=Extreme
Health:**2** Flammability:**0** Reactivity:**1** Other:**0**
NFPA RATING:**0**=Insignificant **1**=Slight **2**=Moderate **3**=High **4**=Extreme
Health:**2** Flammability:**0** Reactivity:**1** Other: **CORR**
ROUTES OF ENTRY: Inhalation X Skin X Ingestion X
TARGET ORGANS: Skin, Eyes, Upper Respiratory Tract
HEALTH HAZARDS (ACUTE AND CHRONIC):
ACUTE: Tissue destruction on contact. May cause 2nd and 3rd degree burns or blindness. Ingestion will cause corrosive burns on contact. May be fatal if swallowed. **CHRONIC:** Inhalation of mists may cause upper respiratory irritation.
SIGNS AND SYMPTOMS: Irritation and burning of exposed tissues.
MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Respiratory disorders may be aggravated by prolonged inhalation of mists

SECTION IV: FIRST AID MEASURES	
EMERGENCY AND FIRST AID PROCEDURES:	
SKIN / EYES	**INGESTION**
-Flush with water for 15 minutes -Remove contaminated clothing -If irritation continues, seek medical attention.	-Do not induce vomiting -Drink large quantities of milk or water -Give CPR if breathing has stopped -Seek medical attention immediately

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SECTION V: FIREFIGHTING MEASURES	
FIRE AND EXPLOSIVE PROPERTIES:	
FLASH POINT: N/A	**Flammable Limits: LEL**: N/A **UEL**: N/A
UNUSUAL FIRE AND EXPLOSION HAZARDS: Hydrogen gas may be present. Hydrogen gas and acid mist is generated upon overcharge or in fire. Ventilate area.	
EXTINGUISHING MEDIA: Dry Chemical, Halon, or Carbon Dioxide	
SPECIAL FIREFIGHTING PROCEDURES: Ventilate the area well. SCBA and acid protective clothing are recommended.	

SECTION VI: ACCIDENTAL RELEASE MEASURES
STEPS TO BE TAKEN IF BATTERY IS BROKEN: Neutralize any spilled electrolyte or exposed battery parts with soda ash or sodium bicarbonate until fizzing stops. pH should be neutral at 6-8. When neutralized, the spill is non-hazardous. Keep untrained individuals away from the spilled material. Place the broken battery in a heavy gauge plastic bag or other non-metallic container. Provide adequate ventilation, hydrogen gas may be given off during neutralization.

SECTION VII: HANDLING AND STORAGE
Store in a cool, dry area away from combustibles. Do not store in sealed, unventilated areas. Avoid overheating and overcharging. Do not use organic solvents or other than recommended chemical cleaners on the batteries.

SECTION VIII: EXPOSURE CONTROLS / PERSONAL PROTECTION
ENGINEERING CONTROLS: General room ventilation is sufficient during normal use and handling. Do not install these batteries in a sealed, unventilated area.
PERSONAL PROTECTIVE EQUIPMENT (WHEN HANDLING BATTERY ACID) :
Eye Protection - chemical goggles or safety glasses with side shields and a full face shield
Protective Gloves - rubber or neoprene
Respiratory Protection - NIOSH approved acid mist respirator, if OSHA PEL is exceeded.
Other Protective Equipment - acid resistant apron or clothes.
WORK PRACTICES: Do not wear metallic jewellery when working with batteries. Use non-conductive tools only. Discharge static electricity prior to working on a battery. Maintain an eyewash, fire extinguisher and emergency communication device in the work area.

SECTION IX: PHYSICAL AND CHEMICAL PROPERTIES		
ACID:	**Boiling Point: 235 F**	**Vapour Pressure:** 1mm @ 145.8
	Vapour Density: (air=1): >1	**Melting Point (unit) :** N/A
	Evaporation Rate (water=1)**:** <1	**Solubility in water:** 100%
	Specific Gravity (contained in battery): 1.300 +/- .050	
	Appearance / Odour: colourless, oily fluid / acrid odour when hot.	

SECTION X: STABILITY AND REACTIVITY
STABILITY: This battery and contents are stable.
CONDITIONS TO AVOID: Overheating, overcharging which result in acid mist / Hydrogen generation.
INCOMPATIBILITY (MATERIALS TO AVOID): Strong alkaline materials, conductive metals, organic solvents, sparks or open flame.
HAZARDOUS DECOMPOSITION OR BYPRODUCTS: Hydrogen gas may be generated in an overcharged condition, in fire or at very high temperatures. In fire may emit CO, CO2 and Sulphur Oxides.
HAZARDOUS POLYMERIZATION WILL NOT OCCUR.

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SECTION XI: TOXICOLOGICAL INFORMATION- SULFURIC ACID		
(Under normal use and handing of this product there is no exposure to the lead contents.)		
LD 50: Administration Route: Oral	**Dose: 2140mg/kg**	**Test Animal: Rat**
LDLo: Administration Route: Unreported	**Dose: 135mg/kg**	**Test Animal: Man**
LC50: Administration Route: Inhalation	**Dose: 510mg/m3**	**Test Animal: Rat**
CARCINOGENICITY: : The International Agency for Research on Cancer (IARC) has classified "strong inorganic acid mists containing sulphuric acid" as a category 1 carcinogen (inhalation), a substance that is carcinogenic to humans. This classification does not apply to the liquid forms of sulphuric acid contained within the battery. Inorganic acid mist (sulphuric acid mist) is generated in very nominal levels at the end of charging. 2-3 room air changes is sufficient for control of this emission. However, misuse of the product, such as overcharging, may result in the generation of sulphuric acid mist at higher levels.		

SECTION XII: ECOLOGICAL INFORMATION
Lead and its compounds can pose a threat if released to the environment. See waste disposal method in Section XIII.

SECTION XIII: DISPOSAL CONSIDERATIONS
WASTE DISPOSAL METHOD: This battery is recyclable. It is illegal to dispose of lead-acid batteries by any means other than recycling.
HAZARDOUS WASTE CODES: **D002, D008**

SECTION XIV: TRANSPORTATION INFORMATION
FOR DOMESTIC, CANADIAN, AND EXPORT SHIPMENTS:
UN OR NA IDENTIFICATION: UN-2794
PROPER DOT SHIPPING NAME: Batteries, Wet, Filled with Acid, Electric Storage
HAZARD CLASS: 8 **PACKING GROUP:** III **LABEL:** Corrosive

SECTION XV: REGULATORY INFORMATION	
UR RS No 73. 09.09.1999	
SECTION XVI: OTHER INFORMATION	
The information herein is given in good faith, but no warranty, expressed or implied, is made.	
MSDS Preparation Date: 06/27/07. Prepared by: P Knighton	Revision Number: B

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IF IN DOUBT, CONTACT

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