

HAWKER ENERGY (FRMLY GATES ENERGY PRODUCTS, INC) -- CYCLON SEALED LEAD-ACID BATTERY (P/N 12-707) -- 6140-01-354-3336

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

Product ID:CYCLON SEALED LEAD-ACID BATTERY (P/N 12-707)

MSDS Date:04/18/1994

FSC:6140

NIIN:01-354-3336

MSDS Number: BVXFF

=== Responsible Party ===

Company Name:HAWKER ENERGY (FRMLY GATES ENERGY PRODUCTS, INC)

Address:617 N. RIDGEVIEW DR.

City:W

ARRENSBURG

State:MO

ZIP:64093-9301

Country:US

Info Phone Num:816-429-2165

Emergency Phone Num:816-429-2165

CAGE:0WY95

=== Contractor Identification ===

Company Name:DUAL-LITE INC

Address:SIMM LN

Box:468

City:NEWTON

State:CT

ZIP:06470-2307

Country:US

Phone:203-426-8011

CAGE:25759

Company Name:HAWKER ENERGY PRODUCTS INC

Address:617 NORTH RIDGEVIEW DR

Box:City:WARRENSBURG

State:MO

ZIP:64093

Country:US

Phone:660-429-7528 / 800-964-2837

CAGE:0WY95

===== Composition/Information on Ingredient

S =====

Ingred Name:LEAD-LEAD OXIDE (SARA III)  
Fraction by Wt: 56.67%&  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:0.05 MG PB/M3  
ACGIH TLV:0.15 MG PB/M3;DUST94

Ingred Name:SULFURIC ACID ELECTROLYTE  
CAS:7664-93-9  
RTECS #:WS5600000  
Fraction by Wt: 6.8%  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:1 MG/M3  
ACGIH TLV:1 MG/M3 9394  
EPA Rpt Qty:1000 LBS  
DOT Rpt Qty:1000 LBS

Ingred Name:NON-HAZARDOUS MATERIALS  
Fraction by Wt: 26.37%  
Other REC Limits:NONE RECOMMENDED

===== Haza  
rds Identification =====

LD50 LC50 Mixture:ORAL LD50 (RAT) IS UNKNOWN.  
Routes of Entry: Inhalation:NO Skin:NO Ingestion:NO  
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO  
Health Hazards Acute and Chronic:THESE BATTERIES ARE MANUFACTURED  
"ARTICLES", WHICH DO NOT RESULT IN EXPOSURE TO A HAZARDOUS CHEMICAL  
UNDER NORMAL CONDITIONS OF USE, AS DEFINED IN OSHA HCS  
1910.1200(C). BATTERY CONTAINS ACID ELECTROL YTE, WHEN HANDLING  
RUPTURED BATTERY DO NOT GET ON SKIN,  
IN EYES OR ON CLOTHING. DO NOT  
BREATHE VAPORS.  
Explanation of Carcinogenicity:LEAD AND LEAD COMPOUNDS: IARC GROUP 2B  
I: "POSSIBLY CARCINOGENIC TO HUMANS","INADEQUATE EVIDENCE".  
Effects of Overexposure:IRRITATION AND ACID BURNS. PUNGENT ODOR AND  
RESPIRATORY IRRITATION.  
Medical Cond Aggravated by Exposure:NONE SPECIFIED BY MANUFACTURER.

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

First Aid:INHALATION:REMOVE TO FRESH AIR. EYE CONTACT:FLUSH WITH WATER  
FOR

15 MINUTES. GET MEDICAL HELP. SKIN CONTACT:WASH WITH SOAP AND WATER. GET MED ATTENTION IF SYMPTOMS PERSIST. INGESTION:DO NOT INDUCE VOMITING, DRINK 1-2 GLASSES OF WATER OR MILK. GET MEDICAL HELP IMMEDIATELY.

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

Flash Point:NON-FLAMMABLE  
Extinguishing Media:MULTI-PURPOSE DRY CHEMICAL OR CARBON DIOXIDE OR WATER SPRAY.  
Fire Fighting Procedures:WEAR NIOSH/MSHA APPROVED SCBA AND FULL PROTECTIVE EQUIPMENT. COOL BATTERY EXTERIOR TO PREVENT RUPTURE.  
ACID MISTS AND VAPORS IN A FIRE ARE TOXIC AND CORROSIVE.  
Unusual Fire/Explosion Hazard:HYDROGEN GAS MAY BE PRODUCED AND MAY EXPLODE IF IGNITED. REMOVE ALL SOURCES OF IGNITION. VENTILATE AREA.

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

Spill Release Procedures:AVOID CONTACT WITH ACID MATERIALS. NEUTRALIZE WITH BAKING SODA. FLUSH WITH LARGE AMOUNTS OF WATER.  
Neutralizing Agent:BAKING SODA IN WATER.

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

Handling and Storage Precautions:STORE AT AMBIENT TEMPERATURES.  
Other Precautions:DO NOT CRACK BATTERY CASES. DO NOT OVERCHARGE. KEEP LIGHTED CIGARETTES, SPARKS, AND FLAMES AWAY FROM CHARGING BATTERIES.

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

Respiratory Protection:NONE NORMALLY REQUIRED. WEAR NIOSH/MSHA APPROVED RESPIRATOR APPROPRIATE FOR EXPOSURE.  
Ventilation:NATURAL CONVECTION IS NORMALLY ADEQUATE.  
Protective Gloves:USE RUBBER GLOVES IF CASE IS LEAKING.  
Eye Protection:SAFETY GOGGLES FOR ELECTROLYTE HANDLING.  
Other Protective Equipment:NONE SPECIFIED BY MANUFACTURER.  
Work Hygienic Practices:WASH AFTER HANDLING AND BEFORE EATING, DRINKING, OR SMOKING. LAUNDRER CONTAMINATED CLOTHING BEFORE REUSE.  
Supplemental Safety and Health  
HAWKER SEALED LEAD ACID BATTERIES ARE DETERMINED TO BE "ARTICLES", THEREFORE MSDS IS NOT EQUIRED. THIS MSDS IS FOR INFORMATION PURPOSE ONLY.

=====  
Physi  
=====

cal/Chemical Properties =====

HCC:Z4

Appearance and Odor:6 VOLT BATTERY, 2.1 IN. WIDE BY 5.5 IN. LONG BY 4 IN. HIGH.

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

Stability Indicator/Materials to Avoid:YES

SOLVENTS MAY DISSOLVE BATTERY CASE MATERIAL.

Stability Condition to Avoid:AVOID SHORTING, OVERCHARGING, AVOID EXTREME TEMPERATURES ABOVE 80C AND BELOW -40C.

Hazardous Decomposition Products:HYDROGEN GAS.

Conditions to Avoid Polymerization:WILL NOT OCCUR.

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

Waste Disposal Methods:SEND FOR RECYLING, OR PLACE IN ACID-RESISTANT CONTAINERS AND DISPOSE IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS. DO NOT INCINERATE. DISPOSE WITH AUTOMOTIVE BATTERY SCRAP.

=====

Disclaimer (provided with this information by the compiling agencies):  
This information is formulated for use by elements of the Department of Defense. The United States of America in no manner whatsoever, expressly or implied, warrants this information to be accurate and disclaims all liability for its use. Any person utilizing this document should seek competent professional advice to verify and assume responsibility for the suitability of this information to their particular situation.