ENERSYS Ltd NEWPORT

SAFETY DATA SHEET

VALVE-REGULATED SEALED LEAD-ACID BATTERIES

These are articles, but do contain some materials that may be hazardous. During proper use they should pose no risk to health. However exposure to fire, container damage, electrical abuse, or incorrect method of disposal may pose risk.

1 IDENTIFICATION OF PRODUCTS AND MANUFACTURING COMPANY

IDENTIFICATION OF PRODUCTS *(for NSNs see page 2)*

Generic monobloc names	Armasafe Plus DataSafe Genesis Odyssey Powerbloc Dry		PowerSafe SBS, SBS J, V, VE SBS SBS J SuperSafe SBS, SBS J, T, TE
Monobloc type	BB-10N		
Monoblocs of generic product numbers	9750Nxxxx		
Monobloc pairs of product numbers	9250-0083	to	9250-0200
Aviation monobloc of product number	9750M0835		
Aviation batteries, plastic cased, of product numbers	9750-0640 9750-0740		9750-0741 9750-0744
Aviation batteries, plastic cased, of generic product numbers	9750Dxxxx 9750Exxxx 9750Fxxxx		
Aviation batteries, metal cased, of generic product numbers	9750Bxxxx 9750Gxxxx 9750Hxxxx 9750Kxxxx 9750Rxxxx		9750Sxxxx 9750Txxxx 9750Uxxxx 9750Yxxxx

COMPANY IDENTIFICATION

ENERSYS Ltd (formerly Hawker Energy Products)
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Telephone 01633 277673

1a IDENTIFICATION OF PRODUCTS - NSNs

NSN	EnerSys Part No	Description
6140-01-4851472	9750N7025	12V 120Ah HASP
6140-12-1909027	9750N7018	12V 100Ah VG 96 924 T 09
6140-25-1396183	9750N0250	12V 100Ah BB10-N
6140-99-0160102	9750T0663	24V 25Ah
6140-99-1221434	9750M7810	12V 14Ah SBS15/1
6140-99-2192903	9750N7000	12V 110Ah UK6TNMF
6140-99-2276299	9750M0804	6V 132Ah SBS130/1
6140-99-2506597	9750-0745	24V 18Ah
6140-99-2608354	9750M0840	12V 14Ah SBS15/2
6140-99-3071047	9750M0790	12V 51Ah SBS60/1
6140-99-3379065	9750M6818	4V 115Ah SBS114/2
6140-99-4606955	9750M0806	4V 115Ah SBS114/1
6140-99-6653648	9750N7020	12V 40Ah UK6G40
6140-99-6906632	9750N7010	12V 120Ah Armasafe Plus
6140-99-7702058	9750-0741	24V 18Ah
6140-99-7702813	9750F0540	24V 40Ah
6140-99-7890192	9750M0800	6V 115Ah SBS110/1
6140-99-7983845	9750-0647	24V 25Ah
6140-99-7983846	9750-0751	24V 25Ah
6140-99-7989862	9750M0780	12V 38Ah SBS40/1
6140-99-8054474	9750-0640	24V 25Ah
6140-99-8597918	9750M0720	12V 26Ah SBS30/2
6140-99-9164053	9750M0835	12V 5Ah
6140-99-9252393	9750T0675	24V 25Ah
6140-99-9682328	9750M0809	4V 132Ah SBS134/1
6140-99-9791512	9750M0725	12V 38Ah SBS40/2

2 COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Components	EINECS #	CAS #	%	Symbol	R- phrases
Lead	231-100-4	7439-92-1	45-55	T N	61-62-50/53-20/22-23
Lead dioxide	215-174-5	1309-60-0	15-25	T N	61-62-50/53-20/22-23
Lead sulphate	231-198-9	7446-14-2	0-55	T N	61-62-50/53-20/22-23
Sulphuric acid	231-639-5	65997-17-3	5-25	C	35
Glass microfibre			2-3	Xn	40, 36/37/38

3 HAZARDS IDENTIFICATION

Lead and Lead compounds – T Toxic, N Dangerous for the environment
- R61 May cause harm to the unborn child
- R62 Possible risk of impaired fertility
- R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
- R20/22 Harmful by inhalation and if swallowed
- R33 Danger of cumulative effects

Sulphuric acid – C Corrosive
- R35 Causes severe burns

Glass Microfibre – Xn Harmful
- R40 Possible risk of irreversible effects

R36/37/38 Irritating to eyes, respiratory system and skin

Thermoplastic Flammable

4 FIRST AID MEASURES

Electrical burns	Remove from contact with source of electricity. Cool injured area with cold water for at least 10 minutes. If possible cover area of injury with cling film type material to exclude air. Do not apply creams or ointments. If severe obtain medical attention.
Lead and Lead compounds	
Inhalation	Get fresh air and obtain medical attention.
Skin contact	Wash with mild soap and water. If irritation persists obtain medical attention.
Eye contact	Flush with plenty of water, occasionally forcing open eyelids. If irritation persists obtain medical attention.
Ingestion	Wash mouth with plenty of water and obtain medical attention.
Sulphuric acid	
Inhalation	Remove from exposure, rest and keep warm. In severe cases, or if recovery is not rapid or complete, obtain medical attention.
Skin contact	Drench the skin with plenty of water. Remove contaminated clothing and wash before reuse. If large areas of the skin are damaged or if irritation persists obtain medical attention.
Eye contact	Irrigate thoroughly with water for at least ten minutes. Obtain medical attention.
Ingestion	Wash out mouth with water. Do not induce vomiting. If patient is conscious, give water to drink. If patient feels unwell obtain medical attention.
Glass microfibre	
Inhalation	Get fresh air. Drink water to clear throat. Blow nose to remove fibres and dusts.
Skin contact	Wash gently with soap and warm water to remove fibres and dusts.
Eye contact	Do not rub or scratch eyes. Dust particles may cause the eye to be scratched. Flush eye with large amounts of water for 10 to 15 minutes. If irritation persists obtain medical attention.
Ingestion	Rinse mouth with water to remove fibres, and drink plenty of water to help reduce irritation.

5 FIRE-FIGHTING MEASURES

Suitable extinguishing media : CO_2 or dry powder.
The use of water or foam may pose a risk of electrical shock and spread toxic material.
Toxic fumes may be emitted by the plastic . Lead oxides dust and sulphur oxides may be emitted.
Treat fire damaged batteries as hazardous waste – see para 6

6 ACCIDENTAL RELEASE MEASURES

Safety precautions – see section 8

In case of mechanical damage, since the sulphuric acid is absorbed in glass microfibre, it is unlikely that there will be spillage. Any spillage should be neutralised with a dilute solution of alkali such as Sodium bicarbonate or soda ash.
A damaged battery should be placed in a suitable acid resistant container.

Dispose of in accordance with section 13.

7 HANDLING AND STORAGE

Handling

When handling product removed from packaging, take great care to avoid short-circuiting the terminals. Short-circuit currents range from 800A to 11,000A.

WARNING

ALL TOOLS MUST BE INSULATED.

CARE MUST BE TAKEN WITH ALL ITEMS OF METAL IN CLOTHING AND JEWELRY, E.G. BUCKLES, ZIPS, RINGS, WATCHES, CHAINS ETC.

IN PARTICULAR, FINGER RINGS, METAL BRACELETS AND WATCH STRAPS, AND METAL BANGLES MUST BE REMOVED BEFORE WORKING WITH BATTERIES.

METAL BELT BUCKLES SHOULD BE COVERED.

CAUTION

No attempt should be made to introduce any substance, eg. water, acid or alkali electrolyte to the battery. Do not attempt to remove valve-retaining discs.

Do not lift by the terminals.

Storage

Product should be stored in a cool dry place with the terminals protected from short circuit, preferably in it's original packing. Self-discharge is slow and the product can be stored for two years at +20°C before recharge is necessary. Do not allow the open-circuit voltage to fall below 12.6V for nominal 12V batteries or 25.2V for nominal 24V batteries. Self-discharge doubles with an increase in temperature of 10°.

Specific use

Use in accordance with the relevant manuals.

8 EXPOSURE CONTROL/PERSONAL PROTECTION

If product is damaged leading to release of internal components, PVC or rubber gloves and eye protection should used during containment and disposal operations.

9 PHYSICAL AND CHEMICAL PROPERTIES

N/A

10 STABILITY AND REACTIVITY

In case of internal contents being exposed the following hazardous reactions are possible :-

Finely divided lead metal in contact with oxidising agents can react vigorously or violently.
Lead dioxide in contact with sulphides, various non-metals and many metals can react vigorously.
Lead sulphate in contact with potassium can react explosively.
Sulphuric acid in contact with metals can produce Hydrogen (flammable and explosive).

11 TOXOLOGICAL INFORMATION

Exposure to Lead and Lead compounds by inhalation or ingestion is harmful. Long term exposure may irreversibly affect nerve transmission and biosynthesis of Haemoglobin.

Sulphuric acid causes severe skin burns and painful burns to eyes. Inhalation of acid mist will cause irritation of mucous membranes and upper respiratory tract. Ingestion of acid may cause severe burns to mouth, throat, oesophagus and stomach.

Glass fibre is an irritant of the upper respiratory tract, skin and eyes.

12 ECOLOGICAL INFORMATION

If correct handling, operating and disposal methods are followed, there should be no release.

13 DISPOSAL CONSIDERATIONS

Dispose of in a discharged state.
Do not incinerate or place in landfill.
Dispose of in accordance with local regulations. The product is recyclable by licensed facilities.
If the battery is damaged such that internal materials could escape, transport will require a registered waste carrier.

14 TRANSPORT INFORMATION

Shipping name – Battery, wet, non-spillable

Products have been tested to the requirements of :-

1) US Dept of Transportation - 49 CFR Section 173.159 para d

2) ICAO/IATA Packing Instruction 806, Special Provision A67

3) IMDG Class 8, UN ID 2800 exemption for Non-Spillable batteries

4) ADR 2003 and RID 2003 Special Provisions 238, 295 and 598

and are classified as Non-spillable and exempt from hazardous goods regulations when securely packed and protected against short circuits.

NOTE: 49 CFR Section 173.159 para d requires that both the battery and its packaging are marked either “NONSPILLABLE” or “NONSPILLABLE BATTERY”.

Where possible re-use the original packaging and then palletise.

15 REGULATORY INFORMATION

Contains Lead.
Disposal controlled.
Recyclable.

16 OTHER INFORMATION

This data sheet has been prepared in the format stated in European Commission Directive 2001/58/EC.