



Material Safety Data Sheet (MSDS)

WAB-H12 Survivor Locator Light

Date of release: 2/11/97

Date of last approval: 04/2014

MSDS No. 001

Revision C

1. Company and Product Identification

Product Name:

Survivor Locator Light (Water Activated Battery)

Trade name and Number:

WAB H12

Company Name:

Epsilon - Electric Fuel Limited

Western Industrial Park, 1 HaSollela St., Beit Shemesh 9905415, Israel Tel: 972-2-990-6666 Fax: 972-2-999-1013
e-mail: safety@electric-fuel.com

2. Hazards Identification

Emergency Overview

Physical Appearance

Ingredients of the Water Activated Battery are in solid form which is contained in a closed plastic housing.

Potential Health Effects

The battery is not a health hazard under normal condition of use.

Primary Entry Routes:

N/A

Target Organs:

N/A

Acute Effects:

N/A

Inhalation:

NO

Eyes:

NO

Skin:

NO

Ingestion:

NO

Carcinogenicity:

IARC, NTP, and OSHA do not list WAB-H18 as a carcinogen.

Chronic Effects:

NO

3. Composition & Information on Ingredients

Ingredient Name	CAS Number	%wt or %vol
CUPROUS CHLORIDE	7758-89-6	TS
SULFUR	7704-34-9	TS
CARBON BLACK	1333-86-4	TS
MAGNESIUM	007439-95-4	TS

Trace Impurities:

Ingredients:	TWA	STEL	TWA	STEL	TWA	STEL	IDLH
CUPROUS CHLORIDE	1.0 mg/m ³		1.0 mg/m ³				
SULFUR	15 mg/m ³		10 mg/m ³				
CARBON BLACK	3.5 mg/m ³		3.5 mg/m ³				
MAGNESIUM	N/A	N/A	N/A	N/A	N/A	N/A	

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4. First Aid Measures

Under normal conditions of use, the battery is hermetically closed.

Inhalation	N/A
Skin Contact	N/A
Eye Contact	N/A
Ingestion	N/A
Further Treatment	N/A

5. Fire Fighting Measures

Flash Point:	NONE
Flash Point Method:	NONE
Burning Rate:	N/A
Auto-ignition Temperature:	N/A
Lower Explosive Limit:	N/A
Upper Explosive Limit:	N/A
Flammability Classification:	N/A
Extinguishing Media:	<u>EXTINGUISHING POWDER APPROVED FOR USE ON Mg FIRES</u>
Unusual Fire or Explosion Hazards:	<u>BATTERY CONTAINS MAGNESIUM WHICH BURNS WHITE HOT</u>
Hazardous Combustion Products:	N/A
Fire-Fighting Instructions:	<u>EXTINGUISH WITH PURPLE K TYPE FIRE EXTINGUISHER</u>
Fire-Fighting Equipment:	<u>PURPLE K TYPE FIRE EXTINGUISHER</u>

6. Accident Release Measures

Spill/Leak Procedures:	USE GENERAL CLEANUP PROCEDURES
Small Spills:	NOT APPLICABLE
Large Spills:	NOT APPLICABLE
Containment:	NOT APPLICABLE
Cleanup:	NOT APPLICABLE
Regulatory Requirements:	Follow applicable OSHA regulations (29 CFR 1910.120)





7. Handling and Storage

Handling Precautions:	NONE
Storage Requirements:	<u>STORE IN COOL DRY PLACE.</u> Product is water activated. Do not expose to water until ready to use.
Regulatory Requirements:	N/A

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8. Exposure Controls & Personal Protection

Protective Equipment: Under normal use - none normally required
Engineering Controls: **NOT REQUIRED FOR NORMAL USE**

	Respiratory protection	Not required for normal use.
	Hand protection	Not required for normal use.
	Eye protection	Not required for normal use. Safety glasses are recommended during handling if the lifejacket light is opened.
	Protective Clothing/Equipment	Not required for normal use. In the event of leakage wear chemical apron.

9. Physical and Chemical Properties

Physical State	Not applicable
Appearance and Odor	Not applicable. Produces rotten egg smell when activated.
pH	Not applicable
Flash Point	Not applicable
Flammability	Not applicable
Boiling Point	Not determined
Freezing/Melting Point	Not determined
Vapor Density	Not applicable
Vapor Pressure	Not applicable
Relative Density	Not applicable
Solubility (water)	Insoluble
Solubility (other)	Not applicable
Formula Weight	Not applicable
Specific Gravity CuCl =	4.14,C=1.8,S=2.07
Evaporation Rate	Not applicable

10. Stability and. Reactivity

Stability:	WAB-H18 is stable at room temperature in closed containers under normal storage and handling conditions.
Polymerizations:	Hazardous polymerization cannot occur.
Chemical Incompatibilities:	Alkali metals, oxidizing agents.
Conditions to Avoid:	NONE
Hazardous Decomposition Products:	Thermal oxidative decomposition of WAB-H18 can produce acrid smoke and fumes.

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11. Toxicological Information

Eye Effects:	Not applicable
Skin Effects:	Not applicable
Acute Inhalation Effects:	Not applicable
Acute Oral Effects:	Not applicable
Chronic Effects:	Not applicable
Carcinogenicity:	Not applicable
Mutagenicity:	Not applicable
Teratogenicity:	Not applicable

12. Ecological Information

Eco-toxicity	Not applicable
Environmental fate	Not applicable
Environmental Transport	Not applicable
Environmental Degradation	Not applicable
Soil Absorption/Mobility	Not applicable

The batteries do not contain mercury, cadmium or other heavy metals

13. Disposal Considerations

Disposal:	Contact your supplier or a licensed contractor for detailed recommendations. Follow applicable Federal, state, and local regulations.
Container Cleaning and Disposal:	N/A
Disposal Regulatory Requirements:	N/A

14. Transport Information

DOT Transportation Data (49 CFR 172.101):	The transportation of these batteries is not regulated by the US Department of Transportation or other major international regulatory bodies.
Shipping Name:	WAB-H18
Shipping Symbols:	Not applicable
Hazard Class:	Not applicable
I.D. No.	Not applicable
Packing Group:	Not applicable
Label:	Not applicable
Special Provisions: (172.102):	Not applicable
<u>Packing Authorizations</u>	
a) Exceptions:	Not applicable
b) Non-bulk Packaging:	Not applicable
c) Bulk Packaging:	Not applicable
<u>Quantity Limitations</u>	

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a) Passenger, Aircraft, or Railcar:	Not applicable
b) Cargo Aircraft Only:	Not applicable
<u>Vessel Stowage Requirements:</u>	
a) Vessel Stowage: Not applicable	
b) Other:	
15. Regulation Information	
EPA Regulations:	NOT REGULATED
RCRA Hazardous Waste Number:	Not listed (40 CFR 261.33)
CERCLA Hazardous Substance (40 CFR 302.4) not listed specific per RCRA, Sec. 3001: CWA. Sec. 311 (b)(4): CWA, Sec. 307(a) CAA, Sec. 112	
SARA 311/312 Codes:	
SARA Toxic Chemical (40 CFR 372.65):	Not listed
SARA EHS (Extremely Hazardous Substance) (40 CFR 355):	Not listed, Threshold Planning Quantity (TPQ)
OSHA Regulations:	
Air Contaminant (29 CFR 1910.1000. Table Z-1, Z-1-A):	Not listed
State Regulations	
16. Other Information	
Additional Hazard Rating Systems: NONE	
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