



# SAFETY DATA SHEET

According to EC 1907/2006 (REACH)

Date last verification : 2015-01-21  
Revision date : 2012-07-21  
Publication date : 2011-09-27

Version number : 2.1

## 1. Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

SDS : 27364  
Supplier : PHILIPS HEALTHCARE, BOTHELL

22100 Bothell Everett Highway  
98021 Bothell  
Washington  
United States of America  
TEL: +1 425-908-2636

Tradename : HEARTSTART FRX DEFIBRILLATOR (861304) □ BATTERY PART NUMBER M5070A : LITHIUM METAL BATTERIES CONTAINED IN EQUIPMENT [5.04 G LITHIUM TOTAL IN BATTERY]

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

General description : BATTERY CONTAINED IN EQUIPMENT  
Use : Various  
Uses advised against : Data not available.

### 1.3. Details of the supplier of the safety data sheet

Supplier safety data sheet : Philips Electronics Nederland B.V., P.O. Box 218, 5600 MD Eindhoven, Tel. +31 (0)40 2747588  
Responsible department : dangerous.goods@philips.com

### 1.4. Emergency telephone number

Emergency telephone number : +31 (0)497-598315

## 2. Hazards identification

### 2.1. Classification of the substance or mixture

GHS: (EC) No 1272/2008

Not classified according to GHS classification.

EC: (EC) No 67/548 or 1999/45

Not classified according to EC classification.

### 2.2. Label elements

GHS: (EC) No 1272/2008

GHS-Label : not applicable

Remarks on GHS-labelling none

EC: (EC) No 67/548 or 1999/45

EC-Label : not applicable

Remarks on EC-labelling none

### 2.3. Other hazards

Data not available.

## 3. Composition/information on ingredients

| Component             | CAS-no. | Index No.        | Percentage(%) | GHS-Label |
|-----------------------|---------|------------------|---------------|-----------|
|                       | EC-no.  | Registration no. |               | EC-Label  |
| LITHIUM METAL BATTERY |         |                  |               |           |

For the full text of the H-sentences, hazard statements and R-sentences mentioned in this section, see section 16.

## 4. First aid measures

### 4.1. Description of first aid measures

**Skin** : Not applicable.  
**Ingestion** : Not applicable.  
**Inhalation** : Not applicable.  
**Eyes** : Not applicable.

### 4.2. Most important symptoms and effects, both acute and delayed

|                  |         |                   |
|------------------|---------|-------------------|
| Skin             | local   | : Not applicable. |
|                  | general | : Not applicable. |
| Ingestion        | local   | : Not applicable. |
|                  | general | : Not applicable. |
| Inhalation       | local   | : Not applicable. |
|                  | general | : Not applicable. |
| Eyes             | local   | : Not applicable. |
|                  | general | : Not applicable. |
| Remarks symptoms |         | : None            |

### 4.3. Indication of any immediate medical attention and special treatment needed

None

## 5. Firefighting measures

### 5.1. Extinguishing media

**Suitable fire-extinguisher**  
 determined by surrounding  
**Unsuitable fire-extinguisher**  
 not traceable

### 5.2. Special hazards arising from the substance or mixture

**Hazardous decomposition products in fire** : lithium oxide

### 5.3. Advice for firefighters

In the event of fire, wear protective clothing and use breathing apparatus that is independent of the ambient air.

## 6. Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

**Precautions**  
 Use protective equipment. See section 8.  
**Emergency procedure**  
 Is not to be expected.

### 6.2. Environmental precautions

Remainder material has to be incinerated in\_a proper installation or dumped on an approved landfill, in accordance with local and national legislation.

### 6.3. Methods and material for containment and cleaning up

Spillage procedure  
not applicable

## 6.4. Reference to other sections

See section 8 for appropriate personal protection.  
See section 13 for additional information on waste treatment.

## 7. Handling and storage

### 7.1. Precautions for safe handling

Observe label precautions.

Local exhausting : Under normal circumstances not applicable.

Storage code (on behalf of PGS : M4  
15)

### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : See also any precautionary statements and S-phrases in section 2.2.  
Store product protected from proximity to other sources of heat, dry.

### 7.3. Specific end use(s)

Data not available.

## 8. Exposure controls/personal protection

### 8.1. Control parameters

Exposure limits :

applicable to: The Netherlands

No TWA has been laid down.

LITHIUM METAL BATTERY

C=Ceiling; S=Skin

Remarks exposure limits :  
none

DNEL (Derived No Effect Level)  
Data not available.

PNEC (Predicted No Effect Concentration)  
Data not available.

### 8.2. Exposure controls

Advised personal protection :

|                   |   |                           |
|-------------------|---|---------------------------|
| Hands             | : | not applicable            |
| Breakthrough time | : | not applicable            |
| Eyes              | : | not applicable            |
| Inhalation        | : | not applicable            |
| Skin              | : | none (when used normally) |

## 9. Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

|                                   |   |                    |
|-----------------------------------|---|--------------------|
| Physical state                    | : | article            |
| Colour                            | : | type dependent     |
| Odour                             | : | odourless          |
| Odour threshold (20°C; 1013 mbar) | : | not traceable      |
| pH                                | : | not applicable     |
| Melting point/range               | : | not traceable      |
| Boiling point/range               | : | not traceable      |
| Flash point/range                 | : | not applicable     |
| Vapor rate/range                  | : | not applicable     |
| Flammability (solid, gas)         | : | data not available |
| Explosive limits                  | : | not applicable     |

|                                 |                  |
|---------------------------------|------------------|
| Vapour pressure                 | : not applicable |
| Density                         | : not traceable  |
| Solubility in water             | : not applicable |
| Log Po/w                        | : not traceable  |
| Autoignition temperature        | : not applicable |
| Decomposition temperature       | : not traceable  |
| Viscosity                       | : not applicable |
| Dust explosions possible in air | : not applicable |
| Oxidising properties            | : no             |

## 9.2. Other information

|                          |                  |
|--------------------------|------------------|
| Solubility in fat        | : not applicable |
| Electrostatic chargement | : not traceable  |

## 10. Stability and reactivity

### 10.1. Reactivity

See section 10.2 - 10.6.

### 10.2. Chemical stability

The substance or mixture is stable under normal conditions. See also section 10.4.

### 10.3. Possibility of hazardous reactions

|                            |                       |
|----------------------------|-----------------------|
| Reactions with water       | : no                  |
| Other hazardous conditions | : Data not available. |

### 10.4. Conditions to avoid

Data not available.

### 10.5. Incompatible materials

|                          |        |
|--------------------------|--------|
| Hazardous reactions with | : none |
|--------------------------|--------|

### 10.6. Hazardous decomposition products

|                                             |        |
|---------------------------------------------|--------|
| Hazardous decomposition products at heating | : none |
|---------------------------------------------|--------|

## 11. Toxicological information

### 11.1. Information on toxicological effects

#### Acute oral toxicity

There are no data available.

#### Acute dermal toxicity

There are no data available.

#### Acute inhalation toxicity

There are no data available.

#### Ames test

not traceable

#### Skin corrosion/irritation

The substance or mixture is not classified for skin corrosion/-irritation.

#### Serious eye damage/irritation

The substance or mixture is not classified for serious eye damage/irritation.

#### Respiratory or skin sensitisation

The substance or mixture is not classified for respiratory or skin sensitisation.

#### Germ cell mutagenicity

The substance or mixture is not classified for germ cell mutagenicity.

#### Carcinogenicity

The substance or mixture is not classified for carcinogenicity.

#### Reproductive toxicity

The substance or mixture is not classified for reproductive toxicity.

#### Specific target organ toxicity-single exposure

The substance or mixture is not classified for specific target organ toxicity-single exposure.

#### Specific target organ toxicity-repeated exposure

The substance or mixture is not classified for specific target organ toxicity-repeated exposure.

#### Aspiration hazard

The substance or mixture is not classified for aspiration hazard.

#### Symptoms

|                  |         |                   |
|------------------|---------|-------------------|
| Skin             | local   | : Not applicable. |
|                  | general | : Not applicable. |
| Ingestion        | local   | : Not applicable. |
|                  | general | : Not applicable. |
| Inhalation       | local   | : Not applicable. |
|                  | general | : Not applicable. |
| Eyes             | local   | : Not applicable. |
|                  |         |                   |
| Remarks symptoms |         | : None            |

## 12. Ecological information

### 12.1. Toxicity

#### Ecotoxicity

not traceable

### 12.2. Persistence and degradability

|                                         |                 |
|-----------------------------------------|-----------------|
| Biological oxygen demand                | : not traceable |
| Chemical oxygen demand                  | : not traceable |
| Biological/chemical oxygen demand ratio | : not traceable |
| Degradability                           | : not traceable |

### 12.3. Bioaccumulative potential

|                    |                 |
|--------------------|-----------------|
| Biochemical factor | : not traceable |
| Log Po/w           | : not traceable |

### 12.4. Mobility in soil

|                |                 |
|----------------|-----------------|
| Henry Constant | : not traceable |
|----------------|-----------------|

### 12.5. Results of PBT and vPvB assessment

Data not available.

### 12.6. Other adverse effects

|                        |        |
|------------------------|--------|
| Remarks on ecotoxicity | : none |
|------------------------|--------|

## 13. Disposal considerations

### 13.1. Waste treatment methods

Remainder material has to be incinerated in\_a proper installation or dumped on an approved landfill, in accordance with local and national legislation.

## 14. Transport information

### 14.1. UN number

|           |        |
|-----------|--------|
| ADR/RID   | : 3091 |
| IMDG/IMO  | : 3091 |
| IATA/ICAO | : 3091 |

|                   |                                                                                                                                                                                    |
|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Remarks IATA/ICAO | : The product must be transported in accordance with the regulations of IATA PACKING INSTRUCTION 970 - SECTION I (Meets the GENERAL REQUIREMENTS of IATA PACKING INSTRUCTION 970). |
|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## 14.2. UN proper shipping name

ADR/RID : LITHIUM METAL BATTERIES CONTAINED IN EQUIPMENT  
IMDG/IMO : LITHIUM METAL BATTERIES CONTAINED IN EQUIPMENT  
IATA/ICAO : LITHIUM METAL BATTERIES CONTAINED IN EQUIPMENT

## 14.3. Transport hazard class(es)

ADR/RID : 9                      IMDG/IMO : 9                      IATA/ICAO : 9

## 14.4. Packing group

ADR/RID : none                      IMDG/IMO : none                      IATA/ICAO : none

## 14.5. Environmental hazards

Marine pollutant : no

## 14.6. Special precautions for user

Hazard identification number (ADR/RID) : none  
EmS (IMDG/IMO) : F-A, S-I

## 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Data not available.

# 15. Regulatory information

## 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

- Articles are exempted from the Toxic Substances Control Act Inventory (TSCA-USA).

## 15.2. Chemical safety assessment

- Data not available.

# 16. Other information

**Remarks on SDS** : The presence of lithium-batteries gives an enlarged risk of fire.

### Overview relevant H-sentences from all components in section 3

not applicable

### Overview relevant hazard statements from all components in section 3

not applicable

### Overview relevant R-sentences from all components in section 3

not applicable

### Training advice

Provide adequate information, instruction and training for operators.

### A key or legend to abbreviations and acronyms used in the safety data sheet

|           |                                                                                           |
|-----------|-------------------------------------------------------------------------------------------|
| REACH     | Registration, Evaluation and Authorisation of CHemicals                                   |
| GHS       | Globally Harmonised System of Classification and Labelling of Chemicals                   |
| CAS       | Chemical Abstracts Service                                                                |
| TGG = TWA | Time Weighted Average                                                                     |
| LEL       | Lower Explosive Limit                                                                     |
| UEL       | Upper Explosive Limit                                                                     |
| ADR       | Accord européen relatif au transport international des marchandises Dangereuses par Route |
| RID       | Règlement concernant le transport international ferroviaire des marchandises dangereuses  |
| UN        | United Nations                                                                            |
| IMDG      | International Maritime Dangerous Goods                                                    |
| IMO       | International Maritime Organization                                                       |
| IATA      | International Air Transport Association                                                   |
| ICAO      | International Civil Aviation Organization                                                 |
| EmS       | Emergency Schedule                                                                        |

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\* Point to alterations with regard to the previous version.

The information provided in this Material Safety Data Sheet is correct to the best of the knowledge, information and belief of PHILIPS HEALTHCARE, BOTHELL at the date of its printing.