

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

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Version: 3.0

Indication of changes : §3

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Safety Data Sheet	: 27364
Product code	: 861304
Product name:	: 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

Relevant identified uses: No information available.Uses advised against: No information available.

1.3. Details of the supplier of the safety data sheet

: PHILIPS HEALTHCARE, BOTHELL
22100 Bothell Everett Highway 98021 Bothell Washington United States
: +1 425-908-2636 :

1.4. Emergency telephone number

Emergency telephone number (regarding transport of DG): +31 (0)497-598315

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

2.1.1. Classification according to Regulation (EC) No 1272/2008 [CLP]

Not classified

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP] none

Remarks on labelling none

2.3. Other hazards

No information available.

SECTION 3: Composition / information on ingredients

3.2. Mixture

	Substance name	CAS No.	EC No.	REACH No.	Classification according to Regulation (EC) No 1272/2008 [CLP]
ſ	LITHIUM METAL BATTERY				

Full text of H- and EUH-statements: see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information	:	No special measures are necessary.
Following inhalation Following skin contact After eye contact After ingestion	:	No special measures are necessary. No special measures are necessary. No special measures are necessary. No special measures are necessary.
Self-protection of the first aider	:	No special measures are necessary.

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

Following skin contact	local systemic	:	Not applicable. Not applicable.
After ingestion	local	:	Not applicable.
	systemic	:	Not applicable.
Following inhalation	local	:	
	systemic		Not applicable.
After eye contact	local	:	Not applicable.
Other information		:	None

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

Notes for the doctor : Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media: Co-ordinate fire-fighting measures to the fire surroundings.Unsuitable extinguishing media: No information available.

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products In case of fire may be liberated

: lithium oxide

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus. Protective clothing. (EN 469)

5.4. Additional information

Do not allow run-off from fire-fighting to enter drains or water courses.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions

: Use personal protection equipment.

6.1.1. For non-emergency personnel

Protective equipment	: Wear breathing apparatus if exposed to vapours/dusts/aerosols.
Emergency procedures	: not applicable.

6.1.2. For emergency responders

Personal protection equipment : Wear breathing apparatus if exposed to vapours/dusts/aerosols.

6.2. Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains. Ensure waste is collected and contained.

6.3. Methods and material for containment and cleaning up

6.3.1. For containment

not applicable.

6.3.2. For cleaning up

not applicable.

6.3.3. Other information

not determined

6.4. Reference to other sections

Safe handling: see section 7 Personal protection equipment: see section 8 Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Protective measures

Advices on safe handling	: No special measures are necessary.
Measures to prevent fire	: No information available.
Measures to prevent aerosol and dust generation	: No information available.
Environmental precautions	: Avoid release to the environment.
Advices on general occupational hygiene	: When using do not eat, drink, smoke, sniff.Take off contaminated clothing.Wash hands before breaks and after work.

: No information available.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions	: protected from proximity to other sources of heat. • dry.	
storage temperature	: No information available.	
Requirements for storage rooms and vessels	: No information available.	
Storage class	: No information available.	
Materials to avoid	: No information available.	
Further information on storage conditions	: No information available.	
7.3. Specific end use(s)		
Recommendation	: not applicable	

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Industrial sector specific solutions

Occupational exposure limit values

Does not contain substances above concentration limits fixing an occupational exposure limit.

- Source : TRGS 910, Austrian OEL Regulation, SUVA, Dutch Health Council, 2006/15/EC, 2004/37/EC, Dutch Social-Economic Council (SER), US OSHA, LOLI DB, 2000/39/EC, EU OSHA, GWBB/VLEP, TRGS 900, Gestis, 91/322/EEC, 2017/164/ EU, INRS (Fr), ACGIH®, 2009/161/EU, TRGS 905
- 20 °C, 1013 mbar: European Union / China / South Korea
- 25 °C, 1013 mbar: United States / Canada / Japan
- ^[x]: appraisal period x minutes
- C: peak limitation
- H: skin resorptive
- S: Statutory threshold limit value
- ALARA: As low as reasonably achievable (ALARA principle).

Remark Occupational exposure limit values

none

DNEL (Derived No Effect Level)

No information available.

PNEC (Predicted No Effect Concentration)

No information available.

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Provide adequate ventilation as well as local exhaustion at critical locations. Use explosion-proof machinery, apparatus, ventilation facilities, tools etc. Safe handling: see section 7

8.2.2. Personal protection equipment

Eye/face protection	: Eye protection: not required.
Skin protection	
Hand protection	: Hand protection is not required.
Body protection	: Body protection: not required.
Respiratory protection	: Usually no personal respirative protection necessary.

8.2.3. Environmental exposure controls

See section 7. No additional measures necessary.

8.3. Additional information

No further relevant information available.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: not applicable
Appearance	: Article
Colour	: various
Odour	: odourless
Odour threshold	: No information available.
рН	: not applicable
Melting point/freezing point	: No information available.
Initial boiling point and boiling range	: No information available.
Flash point	: No information available.
Evaporation rate	: not applicable
flammability	: No information available.
Upper/lower flammability or explosive	limits
Upper explosion limit	: not applicable
Lower explosion limit	: not applicable
Vapour pressure	: not applicable
Vapour density	: No information available.
Relative density	: No information available.
Solubility(ies)	
Water	: not applicable
Partition coefficient: n-octanol/water	: No information available.
Auto-ignition temperature	: not applicable
Decomposition temperature	: No information available.
Viscosity	: not applicable
Explosive properties:	: not applicable
Oxidising properties	: not applicable
	•••
9.2. Other information	

Critical temperature Tc	: not applicable
Fat solubility	: not applicable

SECTION 10: Stability and reactivity

10.1. Reactivity

This material is considered to be non-reactive under normal use conditions.

10.2. Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

10.3. Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

10.4. Conditions to avoid

Stable under recommended storage and handling conditions.

10.5. Incompatible materials

none

10.6. Hazardous decomposition products

No known hazardous decomposition products.

10.7. Additional information

No information available.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

: not applicable

After ingestion Skin contact Inhalation	: No : No : No	
Skin corrosion/irritation	: not applicable	;
Serious eye damage/eye irritation	: not applicable	÷
Respiratory or skin sensitisation	: not applicable	÷
Germ cell mutagenicity	: not applicable	÷
Carcinogenicity	: not applicable	;
Reproductive toxicity	: not applicable	÷
STOT-single exposure	: not applicable	;
STOT-repeated exposure	: not applicable	÷
Aspiration hazard	:	
Symptoms		
Following skin contact		Not applicable.
After ingestion	local : N	Not applicable. Not applicable. Not applicable.
Following inhalation	local : N	Not applicable. Not applicable.
After eye contact Other information	local : N	Not applicable. Not applicable. None

SECTION 12: Ecological information

12.1. Toxicity

No information available.

12.2. Persistence and degradability

Biodegradation	: No information available.
Chemical oyxgen demand (COD)	: No information available.
Biochemical oxygen demand	: No information available.
BOD5/COD ratio	: No information available.
12.3. Bioaccumulative potential	
No indication of bioaccumulation potential.	
Bioconcentration factor (BCF)	: No information available.
Partition coefficient: n-octanol/water	: No information available.

12.4. Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment

No information available.

12.6. Other adverse effects

No information available.

12.7. Additional ecotoxicological information

Observe local regulations concerning effluent treatment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Dispose of contents/container to industrial incineration plant. Following consultation with waste management company and after physico-chemical pre-treatment, landfill together with household waste.

Other disposal recommendations : not applicable

14.1. UN number

UN 3091

14.2. UN proper shipping name

LITHIUM METAL BATTERIES CONTAINED IN EQUIPMENT

14.3. Transport hazard class(es)

9

14.4. Packing group

none

14.5. Environmental hazards

Marine pollutant : No

14.6. Special precautions for user

Hazard identification number (Kemler No.) : none EmS (IMDG) : F-A, S-I

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

No information available.

14.8.

ICAO-TI / IATA-DGR 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).

SECTION 15: Regulatory information

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

International regulations:

Minamata Convention on Mercury : not applicable

EU legislation

Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances [Seveso-III-Directive] not applicable

This mixture contains the following substances of very high concern (SVHC) which are subject to authorisation according to Annex XIV of REACH:

not applicable

Overall Assessment on CMR properties

according to Regulation (EC) No. 1907/2006 (REACH) : not applicable

Regulation (EC) No 850/2004 [POP-Regulation]

not applicable

Regulation (EC) No. 2037/2000 concerning materials, which cause damage to the ozone layer.

not applicable

Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).

Observe employment restrictions under the Maternity Protection Directive 92/85/EEC or stricter national regulations, if applicable.

15.2. Chemical Safety Assessment

No information available.

SECTION 16: Other information

Additional information

Lithium batteries are highly flammable. Caution! Increased risk of explosion and fire.

Relevant H-phrases (Number and full text)

not applicable

Abbreviations and acronyms

	American Conference of Covernmental Industrial Uveice inte
ACGIH®	American Conference of Governmental Industrial Hygienists
ADR	Accord européen relatif au transport international des marchandises Dangereuses par Route
AICS	Australian Inventory of Chemical Substances
BuAc	n-butyl acetate
CAS	Chemical Abstracts Service
CCID	New Zealand Chemical Classification and Information Database
DSL	Canada Domestic Substances List
ECHA-RAC	ECHA Committee for Risk Assessment
EFSA	European Food Safety Authority
EHSP	OECD Environment, Health, and Safety Publication
EmS	Emergency Schedule
EU-CLH	European Union Harmonised Classification and Labelling
GESTIS	Databases on hazardous substances of the German Social Accident Insurance
GHS	Globally Harmonised System of Classification and Labelling of Chemicals
GWBB-VLEP	Grenswaarden voor beroepsmatige blootstelling/Valeurs limites d'exposition professionnelle
HHS	U.S. Department of Health and Human Services
HSDB	Hazardous Substances Data Bank
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
INRS	French National Research and Safety Institute for the Prevention of Occupational Accidents and Diseases
JP-GHS	Japan GHS Basis for Classification Data
KHC	Known human carcinogens.
LEL	Lower explosion limit
LOLI	LOLI (List of Lists) Database
n.a.	not applicable
NDSL	Canada Non-domestic Substance List
NICNAS	Australia National Industrial Chemicals Notification and Assessment Scheme
NIER	South Korea National Institute of Environmental Research Evaluations
NLM	United States National Library of Medicine
NTP	National Toxicology Program
NZIOC	New Zealand Inventory of Chemicals
OECD	Organisation for Economic Co-operation and Development
OSHA	Occupational Safety & Health Administration
OUE	European Odour Unit
RAHC	Reasonably Anticipated Human Carcinogen
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SCOEL	
	Scientific Committee on Occupational Exposure Limits (EU)
SIDS	OECD Screening Information Data Sets
SUVA	Swiss Accident Insurance Fund
TRGS	Technische Regeln für Gefahrstoffe
TSCA	The Toxic Substances Control Act Chemical Substance Inventory
TWA	Time Weighted Average
UEL	Upper explosion limit
UN	United Nations
US-EPA	United States Environmental Protection Agency

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