

Safety Data Sheet

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



Trade name : Sealed Lead Acid Battery/ OPTIMA BATTERY™
First emission: Issue 01 CLP / 2015 - 03-27 / p
Revision date : 31.01.2020

Version : IT.1.0

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

1.1 Product identifier

Sealed Lead Acid Battery

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

Relevant identified uses

Use descriptors: SU3 Industrial uses: Uses of substances as such or in preparations* at industrial sites

SU21 Consumer uses: Private households (= general public = consumers)

SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

According to REACH Regulation, this product has to be considered as an article with no intended release of substances, containing a dangerous mixture, so the same is not labeled. This safety data sheet is prepared in order to provide the necessary information for the safety of workers and consumers in case to exposure to the contents, which can be considered possible only accidentally.

Uses advised against

Uses different from the above mentioned

1.3 Details of the supplier of the safety data sheet

Supplier : **CLARIOS ITALIA SRL**

Street : Via Creta, 26

Postal code/city : 25124 Brescia (BS) Italy

Telephone : +39 030 2435811

Fax : -

Information Contact : ITALY-CLIENTI@CLARIOS.COM

This MSDS was created by LATA S.r.l. – Via Pitagora , 21 20128 Milan (Italy) Tel +39-02-2570189 on behalf of Clarios Italia Srl

Data and information about environmental hazards have been supplied by the customer.

1.4 Emergency telephone number (Italy)

Call +39 030 2435811 in daily hours. For emergency contact the nearest poison control Centre.

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to 1272/2008 Regulation

Acute Tox. 4 ; H302 – Harmful if swallowed

Acute Tox. 4 ; H332 – Harmful if inhaled

Skin Corr. 1A ; H314 – Causes severe skin burns and eye damage

Repr. 1A ; H360Df – May damage unborn child. Suspected of damaging fertility

STOT RE 2 ; H373 – May cause damage to organs through prolonged or repeated exposure

Aquatic Chronic 1 ; H412 – Harmful to aquatic life with long lasting effects

2.2 Label elements

Hazard pictograms



Corrosion (GHS05)



Health hazard (GHS08)



Exclamation mark (GHS07)

Signal word
Danger

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Hazard components for labelling

Sulphuric acid

Lead compounds, with the exception of those specified elsewhere in Annex VI of CLP Regulation

Hazard statements

H302 – Harmful if swallowed

H332 – Harmful if inhaled

H314 – Causes severe skin burns and eye damage

H360Df – May damage unborn child. Suspected of damaging fertility

H373 – May cause damage to organs through prolonged or repeated exposure

H412 – Harmful to aquatic life with long lasting effects

Precautionary statements

P234 Keep only in original container

P302+P352 IF ON SKIN: Wash with plenty of soap and water

P362 Take off contaminated clothing and wash before reuse

P332+P313 If skin irritation occurs: Get medical advice/attention

P315 Get immediate medical advice/attention

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P406 Store in corrosive resistant/... container with a resistant inner liner

2.3 Other hazards

None

SECTION 3: Composition / information on ingredients

3.2 Mixtures

Hazardous ingredients

SULPHURIC ACID ; EC No. : 231-639-5; CAS No. : 7664-93-9

Weight fraction : Max 30 %

Classification 1272/2008 [CLP] : Skin Corr Cat. 1A ; H314

LEAD COMPOUNDS WITH THE EXCEPTION OF THOSE SPECIFIED IN ANNEX VI OF CLP REGULATION

Weight fraction : 60 - 65 %

Classification 1272/2008 [CLP] : Aquatic Acute 1 ; H400 Aquatic Chronic 1 ; H410 Acute Tox 4 ; H302 ; Acute Tox 4
H332 ; Repr 1A H360Df ; STOT RE 2 H373

SECTION 4: First aid measures

4.1 Description of first aid measures

The information below is of relevance only if the battery is broken and there is a direct contact with the contained mixture. When in doubt or if symptoms are observed, get medical advice.

In case of inhalation

Remove victim to fresh air and keep at rest in a position comfortable for breathing. If you are experiencing adverse health effects seek immediate medical advice.

In case of skin contact

Wash immediately with: Water Remove contaminated, saturated clothing immediately. In case of skin irritation, consult a physician. In case of skin reactions, consult a physician. Contaminated clothing should be accurately washed before use.

After eye contact

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time. Remove contact lens if present. Consult an ophthalmologist if symptoms persist

After ingestion

Rinse mouth and eventually give active carbon. Never give anything by mouth to an unconscious person or a person with cramps.

4.2 Most important symptoms and effects, both acute and delayed

Mixture is corrosive. Lead is characterized by possible adverse effects on reproduction and on target organs.

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4.3 Indication of any immediate medical attention and special treatment needed

After contact, short or extended, and any kind of discomfort, always consult a doctor showing this material safety data sheet

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Product is not flammable. Use extinguishing media suitable for the surroundings.

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

Eventual formation of sulphur and lead oxides.

5.3 Advice for firefighters

Remove persons to safety.

Special protective equipment for firefighters

Do not inhale explosion and combustion gases. Use appropriate respiratory protection and protective wearing.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Clear spills immediately. Wear a self-contained breathing apparatus and chemical protective clothing. Wear a self-contained breathing apparatus and chemical protective clothing.

For non-emergency personnel

Remove persons to safety.

6.2 Environmental precautions

Do not allow to enter into surface water or drains. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

6.3 Methods and material for containment and cleaning up

For containment

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents) after neutralization with soda lime or calcium carbonate. Collect in closed and suitable containers for disposal.

For cleaning up

The contaminated area should be cleaned up immediately with: Water Retain contaminated washing water and dispose it.

Other information

Avoid generation of dust.

6.4 Reference to other sections

Reference to other sections Safe handling: see section 7 Personal protection equipment: see section 8

SECTION 7: Handling and storage



7.1 Precautions for safe handling

Protective measures

Specific requirements or handling rules

Do not breathe dust. Do not breathe the gas/fumes/vapour/spray. See chapter 8.

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Advices on general occupational hygiene

Normal precautions taken when handling chemicals should be observed.

7.2 Conditions for safe storage, including any incompatibilities

Only use containers specifically approved for the substance/product.

Requirements for storage rooms and vessels

Keep in a cool, well-ventilated place. Protect against UV-radiation/sunlight Humidity.

Further information on storage conditions

Keep container tightly closed and in a well-ventilated place.

7.3 Specific end use(s)

None

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Lead, inorganic and compounds I ;

Type of limit (country) : Limit 8 hours (ITALIA)
Parameter : Dusts
Limit value : 0.15 mg/m³
Version : Dlgs 81/08 All. XXXVIII

Lead element and inorganic compounds, as Pb;

Type of limit (country) : TWA (USA)
Parameter : Dusts
Limit value : 0.05 mg/m³
Version : ACGIH 2014

Sulphuric acid ;

Type of limit (country) : Limit 8 hours (ITALIA)
Parameter : Vapours
Limit value : 0,05 mg/m³
Version : Dlgs 81/08 All. XXXVIII

Sulphuric acid ;

Type of limit (country) : TWA (USA)
Parameter : Vapours
Limit value : 0,2 mg/m³
Version : ACGIH 2014

8.2

DNEL/DMEL

Type of limit : DNEL worker (local) (Sulphuric acid)
Exposure way : Inhalation
Frequency of exposition : Long term (repeated)
Limit value : 0.05 mg/m³
Type of limit : DNEL worker (local) (Sulphuric acid)
Exposure way : Inhalation
Frequency of exposition : Short term (acute)
Limit value : 0.1 mg/m³

PNEC

Type of limit : PNEC aquatic, freshwater (Sulphuric acid)
Limit value : 0.0025 mg/l
Type of limit : PNEC aquatic, marine water (Sulphuric acid)
Limit value : 0.00025 mg/l

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Type of limit :	PNEC sediment, fresh and marine water (Sulphuric acid))
Limit value :	0.002 mg/kg
Type of limit :	PNEC aquatic, freshwater (Lead)
Limit value :	6.5 µg/l
Type of limit :	PNEC aquatic, marine water(Lead)
Limit value :	3.4 µg/l
Type of limit :	PNEC sediment, fresh water (Lead)
Limit value :	174 mg/kg sediment dw
Type of limit :	PNEC sediment, marine water (Lead)
Limit value :	164 mg/kg sediment dw
Type of limit :	PNEC soil (Lead)
Limit value :	147 mg/kg soil dw

Exposure controls

Appropriate engineering controls

It should be noted that this form of safety data is processed in order to provide the necessary information for the safety of workers and consumers. If you become exposed to the contents, which can be considered possible only by accident. Avoid overcharge, because gases could develop. In this case, if local exhaust ventilation is not possible or not sufficient, the entire working area must be ventilated by technical means. If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

Personal protection equipment



When using do not eat, drink, smoke, sniff.

Eye/face protection

Suitable eye protection

Eye glasses with side protection DIN EN 166 (also during recharge operations)

Skin protection

Hand protection

Tested protective gloves must be worn DIN EN 374

Suitable material :NBR (Nitrile rubber) thickness 0,11 mm, Breakthrough time > 480 minutes

Respiratory protection

If you exceed the limits for the working environment, it is recommended to wear appropriate PPE to CE mark. In particular, it recommends the use of full face masks with filters combined (EN14387), as a backup to engineering. Try as much as possible to ensure a more efficient and adequate ventilation

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Safety relevant basis data

Appearance :	Article containing a mixture of liquid and solid
Odour :	Odourless
Colour	Grey
Melting point/melting range :	No data available
Boiling temperature/boiling range : (1013 hPa)	No data available
Decomposition temperature :	No data available
Flash point :	Not flammable
Ignition temperature :	No data available
Oxidising liquids :	No data available
Lower explosion limit :	No data available

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Upper explosion limit :		No data available
Explosive properties :		No data available.
Vapour pressure	(20 °C)	No data available
Density :	(20 °C)	7.8 g/cm ³
Solvent separation test :	(20 °C)	No data available
Water solubility :	(20 °C)	Partially
Soluble in:	(20 °C)	No data available
PH value :		No data available
Log Pow	(20 °C)	No data available
Viscosity :	(Brookfield RVT 20 rpm)	No data available
Odour threshold :		No data available
Relative vapour density :	(20 °C)	No data available
Evaporation rate :		No data available

9.2 Other information

None

SECTION 10: Stability and reactivity

10.1 Reactivity

The sulfuric acid content in the article is a strong acid that can react violently with many chemicals (in particular strong bases), but also with metals (also developing the flammable gas hydrogen) and organic materials.

10.2 Chemical stability

Stable under recommended storage and handling conditions(See section 7). If exposed to temperatures above 338 ° C product decomposes.

10.3 Possibility of hazardous reactions

See section 7. Avoid contact with strong bases, but also with strong oxidizing agents, halides, organic substances, cyanides, powdered metals. Avoid direct contact with water, it generates strong exothermic reactions.

10.4 Conditions to avoid

See section 10.3

10.5 Incompatible materials

See section 10.3

10.6 Hazardous decomposition products

See section 7. Sulphur and lead oxides can develop in case of fire.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute effects

No data available

Acute oral toxicity

Parameter :	LD50 (Lead)
Exposure route :	Oral
Species :	Rat
Effective dose :	>2000 mg/kg
Parameter :	LD50 (Sulphuric acid)
Exposure route :	Oral
Species :	Rat
Effective dose :	>1540 mg/kg

Specific target organ toxicity (single exposure)

None

Practical experience/human evidence

None

Acute dermal toxicity

Parameter :	LD50 (Lead)
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Exposure route : Dermal
Effective dose : >2000 mg/kg

Acute inhalation toxicity

Parameter : LC50 (Lead)
Exposure route : Inhalation
Species : Rat
Effective dose : >5 mg/L
Parameter : LC50 (Sulphuric acid)
Exposure route : Inhalation
Species : Rat
Effective dose : >0.85 mg/L

Irritant and corrosive effects

Primary irritation to the skin

Corrosive

Irritation to eyes

Corrosive

Irritation to respiratory tract

Not an irritant.

Sensitisation

In case of skin contact

No known sensitizing effect.

In case of inhalation

No known sensitizing effect.

Repeated dose toxicity (subacute, subchronic, chronic)

Chronic inhalation toxicity

Parameter : LOAEC (Sulphuric acid)
Exposure way : Inhalation
Species : Rat
Effective dose : 0.3 mg/m³
Parameter: LOEL lead)
Exposure way : Inhalation
Species : Rat
Effective dose : 0.005 mg/kg bw/day
Parameter : NOEL (lead)
Exposure way : Inhalation
Species : Rat
Effective dose : 0.0015 mg/kg bw/day

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

The ingredients in this mixture do not meet the criteria for classification as CMR according to CLP.

SECTION 12: Ecological information

Do not allow uncontrolled discharge of product into the environment.

12.1 Toxicity

No data available

Aquatic toxicity

Parameter : Acute toxicity (Sulphuric acid)
Species : Fish
Effective dose : >16<28 mg/l
Exposure time : 96 h
Parameter : EC50 Acute toxicity (Lead)

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Species : Fish
Effective dose : >100 mg/l
Exposure time : 96 h
Parameter : Acute toxicity (Sulphuric acid)
Species : Daphnia magna
Effective dose : >100 mg/l
Parameter : EC10 Acute toxicity (Lead)
Species : Daphnia Magna
Effective dose : >100 mg/l
Exposure time : 72 h
Parameter : EC50 (Sulphuric acid)
Species : Algae
Effective dose : >100 mg/l
Exposure time : 72 h
Parameter : EC50 (Lead)
Species : Algae
Effective dose : >10 mg/l
Exposure time : 72 h

12.2 Persistence and degradability

Not relevant

12.3 Bioaccumulative potential

The inorganic lead is considered bioaccumulative in the environment and may accumulate in aquatic and terrestrial plants and animals.

12.4 Mobility in soil

The hydrogen ions of the sulphuric acid are potentially mobile in soil and contribute to vary the local pH. The sulphate ions of the same compound can be easily incorporated within mineral species. The inorganic lead is poorly soluble and is more likely that it adsorb on soil and sediments. His mobility is considered low.

12.5 Results of PBT and vPvB assessment

This product is none, or does not contain a substance called a PBT or vPvB This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.

12.6 Other adverse effects

No information available.

12.7 Further ecological information

None

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product/Packaging disposal

Do not pour product into surface water or sewer. Dispose according to legislation or better yet send to recycling. The stores, manufacturers and importers of batteries can give back used batteries to plants for secondary smelting of lead.

Clarios Italia Srl has organized a collection system called ecosteps. More information is available at:

http://johnsoncontrols.de/content/de/de/products/power_solutions/recycling.html

Lead-acid batteries run out (with disposable WCE code 16.06.01 *) are subject to European regulation (Battery Directive) and the resulting impact on national legislation and on the composition and management of the end of battery life. The same are marked with the recycle symbol and the symbol of the crossed out waste container with a cross (which highlights the fact not to throw in the waste collection). Batteries other than lead-acid batteries must be separated to avoid risks during transportation and recycling.

SECTION 14: Transport information

14.1 UN number

2800

Clarios Italia Srl
Via Creta n.26
25124 Brescia (BS) – Italy
Tel. +39 030 2435 811

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14.2 UN proper shipping name

Batteries, wet, non-spillable, electric storage

14.3 Transport hazard class(es)

Transport by road (ADR/RID)

Class(es) : 8
Classification code : -
Hazard N° (Kemler) : 80
Tunnel restriction code : -
Special prescriptions : -
Hazard Pictogram :



Transport by ship (IMDG)

Class (es) : 8
EmS Number: -
Special prescriptions : -
Hazard Pictogram :



Transport by plane (ICAO-TI / IATA-DGR)

Class(es) : 8
Special prescriptions : -
Hazard Pictogram :



14.4 Packing group

III

14.5 Environmental hazards

-

14.6 Special precautions for user

None

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

not applicable

SECTION 15: Regulatory information

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

EU legislation

Directive 67/548/CEE (Dangerous substances classification, labelling and packaging) and subsequent amendments.
Directive 1999/45/CE (Dangerous preparations classification, labelling and packaging) and subsequent amendments.
Regulation n°. 1907/2006/CE (REACH).
Regulation n°. 1272/2008/CE (CLP).
Regulation n°. 790/2009/CE (amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008)
Regulation UE 2015/830 (amending del regulation 1907/2006)
Directive 2006/66/CE (Batteries Directive) and amendments.

National regulations

Italy: Legislative Decree 81/2008 (Consolidated Law on protection of health and safety at work), as amended and Directive 2009/161/UE - chemical risk assessment in accordance with Title IX

Water hazard class (WGK)

Class : nwg (Non-hazardous to water) Classification according to VwVwS

15.2 Chemical Safety Assessment

No information available

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SECTION 16: Other information

16.1 Indication of changes

None

16.2 Abbreviations and acronyms

LEGENDA:

ADR:	Accord européen relative au transport international des marchandises dangereuses par route (accordo europeo relativo al trasporto internazionale delle merci pericolose su strada)
ASTM	ASTM International, originariamente nota come American Society for Testing and Materials (ASTM)
EINECS:	European Inventory of Existing Commercial Chemical Substances (Registro Europeo delle Sostanze chimiche in Commercio)
EC(0/50/100):	Effective Concentration 0/50/100 (Concentrazione Effettiva Massima per 0/50/100% degli Individui)
LC(0/50/100):	Lethal Concentration 0/50/100 (Concentrazione Letale per 0/50/100% degli Individui)
IC50:	Inhibitor Concentration 50 (Concentrazione Inibente per il 50% degli Individui)
NOEL:	No Observed Effect Level (Dose massima senza effetti)
NOEC:	No Observed Effect Concentration (Concentrazione massima senza effetti)
LOEC:	Lowest Observed Effect Concentration (Concentrazione massima alla quale è possibile evidenziare un effetto)
DNEL:	Derived No Effect Level (Dose derivata di non effetto)
DMEL	Derived Minimum Effect Level (Dose derivata di minimo effetto)
CLP:	Classification, Labelling and Packaging (Classificazione, Etichettatura e Imballaggio)
CSR:	Rapporto sulla Sicurezza Chimica (Chemical Safety Report)
LD(0/50/100):	Lethal Dose 0/50/100 (Dose Letale per 0/50/100% degli Individui)
IATA:	International Air Transport Association (Associazione Internazionale del Trasporto Aereo)
ICAO:	International Civil Aviation Organization (Organizzazione Internazionale dell'Aviazione Civile)
Codice IMDG:	International Maritime Dangerous Goods code (Codice sul Regolamento del Trasporto Marittimo)
PBT:	Persistent, bioaccumulative and toxic (sostanze persistenti bioaccumulabili e tossiche)
RID:	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regolamento concernente il trasporto Internazionale ferroviario delle merci Pericolose)
STEL:	Short term exposure limit (limite di esposizione a breve termine)
TLV:	Threshold limit value (soglia di valore limite)
TWA:	Time Weighted Average (media ponderata nel tempo)
UE:	Unione Europea
vPvB:	Very persistent very bioaccumulative (sostanze molto persistenti e molto bioaccumulabili)
N.D.:	Non disponibile.
N.A.:	Non applicabile
VwVwS.:	Text of Administrative Regulation on the Classification of Substances hazardous to waters into Water Hazard Classes (Verwaltungsvorschrift wassergefährdende Stoffe – VwVwS)
PNEC:	Predicted No Effect Concentration
PNOS	Particulates not Otherwise Specified
BOD:	Biochemical Oxygen Demand
COD:	Chemical Oxygen Demand
BCF:	BioConcentration Factor
TRGS :	Technische Regeln für Gefahrstoffe -Technical Rules for Hazardous Substances, defined by The Federal Institute for Occupational Safety and Health, Germany
LCLo:	Lethal Concentration Low (La minima concentrazione letale)
ThOD	Theoretical Oxygen Demand

16.3 Key literature references and sources for data

None

16.4 Classification for mixtures and used evaluation method according to regulation (EC) 1272/2008 [CLP]

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

None

16.5 Relevant R-, H- and EUH-phrases (Number and full text)

H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H360Df	May damage unborn child. Suspected of damaging fertility
H373	May cause damage to organs through prolonged or repeated exposure
H332	Harmful if inhaled.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

16.6 Training advice

None

16.7 Additional information

None

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.
