



# Dry Charge Lead Battery Safety Data Sheet

according to Regulation (EU) 2015/830

|             |            |
|-------------|------------|
| Document:   | SDS 14     |
| Issue No:   | 1          |
| Issue Date: | 28-01-2020 |

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

### 1.1. Product identifier

Product form : Article  
Product name : GS High Performance AGM, AGM MF, Conventional CB & Conventional Series - Dry Charged Lead Battery

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

#### 1.2.1. Relevant identified uses

Use of the article : Motorcycle & power sport electric storage/starter battery

#### 1.2.2. Uses advised against

No additional information available

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

**Supplier:** GS Yuasa Battery Europe Ltd  
**Address:** Unit 22, Rassau Industrial Estate,  
Ebbw Vale, NP23 5SD  
United Kingdom

**National Contacts**  
France: GS Yuasa Battery France S.A.  
Contact: Christian RAYNAUD (Technical Manager)  
Tel: (+33) 0474-95-90-95  
e-mail: [christian.raynaud@gs-yuasa.fr](mailto:christian.raynaud@gs-yuasa.fr)  
Language: French & English

Germany: GS Yuasa Battery Germany GmbH  
Contact: Joachim HEER (UPS / Project Manager)  
Tel: (+49) 0211-41790-15  
e-mail: [Joachim.Heer@gs-yuasa.de](mailto:Joachim.Heer@gs-yuasa.de)  
Language: German & English

Iberia: GS Yuasa Battery Iberia S.A.  
Contact: Antonio PULIDO MARTINEZ (Director Commercial Industrial)  
Tel: (+34) 091-748-89-19  
e-mail: [antonio.pulido@gs-yuasa.es](mailto:antonio.pulido@gs-yuasa.es)  
Language: Spanish & English

Italy: GS Yuasa Battery Italy Srl.  
Contact: Marco FILIPPI (Technical Manager)  
Tel: (+39) 02-3800-91-08  
e-mail: [marco.filippi@gs-yuasa.it](mailto:marco.filippi@gs-yuasa.it)  
Language: Italian & English

UK: GS Yuasa Battery Sales UK Ltd.  
Contact: Matt JORDAN (General Manager)  
Tel: (+44) 01793-833-562  
e-mail: [Matt.Jordan@gs-yuasa.uk](mailto:Matt.Jordan@gs-yuasa.uk)  
Language: English language only

### 1.4. Emergency telephone number

Emergency number : +44(0)1793833562 (09:00– 17:00 Mon to Fri)

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

**Classification according to Regulation (EC) No. 1272/2008 [CLP] Mixture/Substance: SDS EU 2015: According to Regulation (EU) 2015/830 (REACH Annex II)**

Reproductive toxicity, Category 1A H360Fd  
Specific target organ toxicity (repeated exposure) Category 1 H372  
Hazardous to the aquatic environment — Acute Hazard, Category 1 H400  
Hazardous to the aquatic environment — Chronic Hazard, Category 1 H410

Full text of H statements : see section 16

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### 2.2. Label elements

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

Hazard pictograms (CLP) :



GHS08

GHS09

Signal word (CLP) :

Danger

Hazard statements (CLP) :

H360Fd - May damage fertility. Suspected of damaging the unborn child  
H372 - Causes damage to organs through prolonged or repeated exposure  
H410 - Very toxic to aquatic life with long lasting effects

Precautionary statements (CLP) :

P201 - Obtain special instructions before use  
P202 - Do not handle until all safety precautions have been read and understood  
P260 - Do not breathe dust/fume/gas/mist/vapours/spray  
P264 - Wash ... thoroughly after handling  
P270 - Do not eat, drink or smoke when using this product  
P273 - Avoid release to the environment

### 2.3. Other hazards

other hazards which do not result in classification :

Lead may be toxic to blood, kidneys, central nervous system.

## SECTION 3: Composition/information on ingredients

### 3.1. Substance

Not applicable

### 3.2. Mixture

| Name     | Product identifier  | %       | Classification according to Regulation (EC) No. 1272/2008 [CLP]                                     |
|----------|---|---------|---|
| Antimony | (CAS No) 7440-36-0<br>(EC no) 231-146-5<br>(REACH-no) not available | 0,2     | Not classified  |
| Lead     | (CAS No) 7439-92-1<br>(EC no) 231-100-4<br>(REACH-no) not available | 89 - 92 | Repr. 1A, H360<br>STOT RE 1, H372<br>Aquatic Acute 1, H400 (M=10)<br>Aquatic Chronic 1, H410 (M=10) |

Full text of H-statements: see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures after inhalation : If a battery ruptures, move to fresh air in case of accidental inhalation of mist. If breathing is irregular or stopped, administer artificial respiration. If breathing is difficult, give oxygen. Seek medical attention immediately.

First-aid measures after skin contact : Rinse immediately with plenty of water for 15 minutes. Remove contaminated clothing, including shoes, after flushing has begun. If a battery ruptures, do not rub or scratch exposed skin.

First-aid measures after eye contact : Rinse immediately with plenty of water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If battery ruptures, do not rub or scratch exposed eye.

First-aid measures after ingestion : If solution of a battery chemicals have been swallowed and the person is conscious, give one glass of water. Do NOT induce vomiting. Vomiting may occur spontaneously. Never give anything by mouth to an unconscious person. Get immediate medical attention.

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

Symptoms/injuries after inhalation : In case of repeated or prolonged exposure : May cause respiratory irritation.

Symptoms/injuries after skin contact : Direct contact with internal components of a battery can be severely irritating to the skin and may result in redness, swelling, burns and severe skin damage. Skin contact may aggravate an existing dermatitis condition. Skin contact may aggravate dermatitis.

Symptoms/injuries after eye contact : Dust from this product may cause eyes irritation.

Symptoms/injuries after ingestion : Ingestion may cause nausea and vomiting. Abdominal pain. Diarrhea.

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

No additional information available

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media : Use extinguishing media appropriate for surrounding fire. If a battery ruptures, use dry chemical, soda ash, lime, sand or carbon dioxide.

Unsuitable extinguishing media : None known.

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

Fire hazard : On burning formation of metallic fumes. Battery may rupture due to pressure buildup when exposed to excessive heat and may be result in the release of corrosive materials.

Hazardous decomposition products in case of fire : Toxic gases and fumes may be released in a fire.

### 5.3. Advice for firefighters

Protective equipment for firefighters : Use self-contained breathing apparatus and chemically protective clothing.

## SECTION 6: Accidental release measures

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

General measures : Avoid contact with spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective equipment.

#### 6.1.1. For non-emergency personnel

Protective equipment : Wear suitable protective clothing, gloves and eye/face protection.

Emergency procedures : Evacuate area.

#### 6.1.2. For emergency responders

Protective equipment : Wear suitable protective clothing, gloves and eye/face protection.

Emergency procedures : Evacuate unnecessary personnel.

### 6.2. Environmental precautions

Prevent entry to sewers and public waters.

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

For containment : Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Wet clean or vacuum up solids.

Methods for cleaning up : Use clean-up methods that avoid dust generation (vacuum wet). Collect all waste in suitable and labelled containers and dispose according to local legislation.

### 6.4. Reference to other sections

No additional information available

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Additional hazards when processed : Protect from physical damage.

Precautions for safe handling : Avoid all eye and skin contact and do not breathe vapour and mist. Since emptied containers retain product residue, follow label warnings even after container is emptied. Proper grounding procedures to avoid static electricity should be followed. Non-static creating clothing and conductive shoes should be worn.

Hygiene measures : Do not eat, drink or smoke when using this product. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

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

Technical measures : Provide local exhaust or general room ventilation.

Storage conditions : Store in a dry, cool and well-ventilated place. Keep away from heat and direct sunlight. Protect containers against damage.

Incompatible products : Strong bases. Strong acids.

### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

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| Lead (7439-92-1) |  |  |
|------------------|--|--|
| EU               | European BEI   | (Medium: blood - Time: no restriction - Parameter: Lead (binding biological limit value)<br>0,075 mg/m <sup>3</sup> (Medium: air - Time: 40 hours per week - Parameter: Lead (TWA medical surveillance threshold in air measured as a time weighted average over 40 hours per week)<br>(Medium: blood - Time: no restriction - Parameter: Lead (medical surveillance threshold measured in individual workers)   |
| Austria          | MAK (mg/m <sup>3</sup> )                                   | 0,1 mg/m <sup>3</sup> (inhalable fraction)   |
| Austria          | MAK Short time value (mg/m <sup>3</sup> )                  | 0,4 mg/m <sup>3</sup> (inhalable fraction)   |
| Bulgaria         | OEL TWA (mg/m <sup>3</sup> )                               | 0,05 mg/m <sup>3</sup>   |
| Bulgaria         | Bulgaria - BEI   | 300 µg/l (Medium: blood - Time: not fixed - Parameter: Lead (for women under 45 years old)<br>400 µg/l (Medium: blood - Time: not fixed - Parameter: Lead)   |
| Croatia          | GVI (granična vrijednost izloženosti) (mg/m <sup>3</sup> ) | 0,15 mg/m <sup>3</sup>   |
| Croatia          | Croatia - BEI  | (Medium: blood - Time: not critical - Parameter: Lead (Medical surveillance should be carried out when the limit value of Lead in blood of workers >40 µg/100mL blood)<br>(Medium: urine - Time: single sample or urine collected over 24 hours - Parameter: Lead (For all results that are expressed on Creatinine, Creatinine concentration <0.5 g/L and >3.0 g/L should not be considered)<br>(Medium: blood - Time: not critical - Parameter: .delta.- Aminolevulinic acid dehydratase)<br>(Medium: blood - Time: after exposure during 2-3 months (light protected sample) - Parameter: Protoporphyrin in erythrocytes (Interference of Iron deficiency (anemia sideropenic)) |
| Cyprus           | OEL TWA (mg/m <sup>3</sup> )                               | 0,15 mg/m <sup>3</sup>   |
| Czech Republic   | Expoziční limity (PEL) (mg/m <sup>3</sup> )                | 0,05 mg/m <sup>3</sup>   |
| Czech Republic   | Czech Republic - BEI                                       | (Medium: urine - Time: discretionary - Parameter: 5- Aminolevulinic acid (For short term continual exposures <=30 calendar days)<br>(Medium: urine - Time: discretionary - Parameter: Coproporphyrin (For short term continual exposures <=30 calendar days)<br>(Medium: urine - Time: discretionary - Parameter: 5- Aminolevulinic acid (For short term continual exposures <=30 calendar days)<br>(Medium: urine - Time: discretionary - Parameter: Coproporphyrin (For short term continual exposures <=30 calendar days)<br>0,4 mg/l (Medium: blood - Time: discretionary - Parameter: Lead)   |
| Denmark          | Grænseværdie (langvarig) (mg/m <sup>3</sup> )              | 0,05 mg/m <sup>3</sup> (dust, fume and powder)   |
| Denmark          | Denmark - BEI  | (Medium: blood - Parameter: Lead)  |
| Estonia          | OEL TWA (mg/m <sup>3</sup> )                               | 0,1 mg/m <sup>3</sup> (total dust)<br>0,05 mg/m <sup>3</sup> (respirable dust)   |
| Finland          | HTP-arvo (8h) (mg/m <sup>3</sup> )                         | 0,1 mg/m <sup>3</sup> (all works)  |
| Finland          | Finland - BEI  | (Medium: blood - Time: not critical - Parameter: Lead)   |
| France           | VME (mg/m <sup>3</sup> )                                   | 0,1 mg/m <sup>3</sup> (restrictive limit)  |
| France           | France - BEI   | 400 µg/l (Medium: blood - Parameter: Lead (biological limit value, men)<br>300 µg/l (Medium: blood - Parameter: Lead (biological limit value, women)<br>200 µg/l (Medium: blood - Parameter: Lead (medical surveillance value, men)<br>100 µg/l (Medium: blood - Parameter: Lead (medical surveillance value, women)   |
| Germany          | TRGS 903 (BGW)   | 300 µg/l (Medium: whole blood - Time: no restriction - Parameter: Lead (women age below 45 years)<br>400 µg/l (Medium: whole blood - Time: no restriction - Parameter: Lead (women 45 years and older)   |
| Gibraltar        | OEL TWA (mg/m <sup>3</sup> )                               | 0,15 mg/m <sup>3</sup>   |

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| <b>Lead (7439-92-1)</b> |  |  |
|-------------------------|--|--|
| Gibraltar               | Gibraltar - BEI                        | (Medium: blood - Time: no restriction - Parameter: Lead (binding biological limit value)<br>0,075 mg/m <sup>3</sup> (Medium: air - Time: 40 hours per week - Parameter: Lead (medical surveillance threshold measured in individual employees))<br>(Medium: blood - Time: no restriction - Parameter: Lead (medical surveillance threshold measured in individual employees))  |
| Greece                  | OEL TWA (mg/m <sup>3</sup> )           | 0,15 mg/m <sup>3</sup>   |
| Hungary                 | AK-érték                               | 0,15 mg/m <sup>3</sup>   |
| Ireland                 | OEL (8 hours ref) (mg/m <sup>3</sup> ) | 0,15 mg/m <sup>3</sup>   |
| Ireland                 | OEL (15 min ref) (mg/m <sup>3</sup> )  | 0,45 mg/m <sup>3</sup> (calculated)  |
| Italy                   | OEL TWA (mg/m <sup>3</sup> )           | 0,075 mg/m <sup>3</sup>  |
| Italy                   | Italy - BEI                            | (Medium: blood - Time: end of workweek (Lead remediation must be performed when workers of fertile age have Lead in blood levels >40 µg/100mL))  |
| Latvia                  | OEL TWA (mg/m <sup>3</sup> )           | 0,005 mg/m <sup>3</sup>  |
| Latvia                  | Latvia - BEI                           | (Medium: blood - Parameter: Lead (reference value in blood for occupationally unexposed population <=10 µg/100 mL)<br>(Medium: urine - Parameter: Coproporphyrin (reference value 22-57µg/g Creatinine)<br>(Medium: urine - Parameter: Aminolevulinic acid (reference value 0.5-2.5mg/g Creatinine))   |
| Lithuania               | IPRV (mg/m <sup>3</sup> )              | 0,15 mg/m <sup>3</sup> (inhalable fraction)<br>0,07 mg/m <sup>3</sup> (respirable fraction)  |
| Luxembourg              | OEL TWA (mg/m <sup>3</sup> )           | 0,15 mg/m <sup>3</sup>   |
| Luxembourg              | Luxembourg - BEI                       | (Medium: blood - Parameter: Lead)<br>0,075 mg/m <sup>3</sup> (Medium: blood - Parameter: Lead (medical surveillance threshold in air measured as a time weighted average over 40 hours per week)<br>(Medium: blood - Parameter: Lead (medical surveillance threshold measured in individual workers))  |
| Poland                  | NDS (mg/m <sup>3</sup> )               | 0,05 mg/m <sup>3</sup>   |
| Portugal                | OEL TWA (mg/m <sup>3</sup> )           | 0,15 mg/m <sup>3</sup> (mandatory indicative limit value)  |
| Romania                 | OEL TWA (mg/m <sup>3</sup> )           | 0,05 mg/m <sup>3</sup>   |
| Romania                 | OEL STEL (mg/m <sup>3</sup> )          | 0,10 mg/m <sup>3</sup>   |
| Romania                 | Romania - BEI                          | 150 µg/l (Medium: urine - Time: end of shift - Parameter: Lead)<br>(Medium: blood - Time: end of shift - Parameter: Lead)<br>(Medium: hair - Time: end of shift - Parameter: Lead)<br>10 mg/l (Medium: urine - Time: end of shift - Parameter: .delta.-Aminolevulinic acid)<br>300 µg/l (Medium: urine - Time: end of shift - Parameter: Coproporphyrin)<br>(Medium: blood - Time: end of shift - Parameter: Erythrocytes protoporphyrin)                                    |
| Slovakia                | NPHV (priemerná) (mg/m <sup>3</sup> )  | 0,15 mg/m <sup>3</sup>   |
| Slovakia                | Slovakia - BEI                         | 400 µg/l (Medium: blood - Time: not critical - Parameter: Lead)<br>100 µg/l (Medium: blood - Time: not critical - Parameter: Lead (women younger than 45 years of age))<br>15 mg/l (Medium: urine - Time: not critical - Parameter: .delta.-Aminolevulinic acid)<br>6 mg/l (Medium: urine - Time: not critical - Parameter: .delta.-Aminolevulinic acid (women younger than 45 years of age))<br>0,30 mg/l (Medium: urine - Time: not critical - Parameter: Coproporphyrins) |
| Slovenia                | OEL TWA (mg/m <sup>3</sup> )           | 0,1 mg/m <sup>3</sup> (inhalable fraction)   |
| Slovenia                | OEL STEL (mg/m <sup>3</sup> )          | 0,4 mg/m <sup>3</sup> (inhalable fraction)   |
| Spain                   | VLA-ED (mg/m <sup>3</sup> )            | 0,15 mg/m <sup>3</sup>   |

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| <b>Lead (7439-92-1)</b>     |  |   |
|-----------------------------|--|---|
| Spain                       |  | (Medium: blood - Time: not critical - Parameter: Lead (3,K))  |
| Sweden                      | nivågränsvärde (NVG) (mg/m <sup>3</sup> )                  | 0,1 mg/m <sup>3</sup> (total inhalable dust)<br>0,05 mg/m <sup>3</sup> (total respirable dust)  |
| United Kingdom              | WEL TWA (mg/m <sup>3</sup> )                               | 0,15 mg/m <sup>3</sup>  |
| United Kingdom              | WEL STEL (mg/m <sup>3</sup> )                              | 0,45 mg/m <sup>3</sup> (calculated)   |
| Norway                      | Grenseverdier (AN) (mg/m <sup>3</sup> )                    | 0,05 mg/m <sup>3</sup> (dust and fume)  |
| Norway                      | Grenseverdier (Korttidsverdi) (mg/m <sup>3</sup> )         | 0,05 mg/m <sup>3</sup> (dust and fume)  |
| Switzerland                 | VME (mg/m <sup>3</sup> )                                   | 0,1 mg/m <sup>3</sup> (inhalable dust)  |
| Switzerland                 | VLE (mg/m <sup>3</sup> )                                   | 0,8 mg/m <sup>3</sup> (inhalable dust)  |
| Switzerland                 | Switzerland - BEI  | 400 µg/l (Medium: whole blood - Time: no restrictions - Parameter: Lead (men and women over 45 years old, X))<br>100 µg/l (Medium: whole blood - Time: no restrictions - Parameter: Lead (women less than 45 years old, X)) |
| Australia                   | TWA (mg/m <sup>3</sup> )                                   | 0,15 mg/m <sup>3</sup> (dust and fume)  |
| Canada (Quebec)             | VEMP (mg/m <sup>3</sup> )                                  | 0,05 mg/m <sup>3</sup>  |
| USA - ACGIH                 | ACGIH TWA (mg/m <sup>3</sup> )                             | 0,05 mg/m <sup>3</sup>  |
| USA - IDLH                  | US IDLH (mg/m <sup>3</sup> )                               | 100 mg/m <sup>3</sup>   |
| USA - NIOSH                 | NIOSH REL (TWA) (mg/m <sup>3</sup> )                       | 0,050 mg/m <sup>3</sup>   |
| USA - OSHA                  | OSHA PEL (TWA) (mg/m <sup>3</sup> )                        | 50 µg/m <sup>3</sup>  |
| <b>Antimony (7440-36-0)</b> |  |   |
| Austria                     | MAK (mg/m <sup>3</sup> )                                   | 0,5 mg/m <sup>3</sup> (inhalable fraction)  |
| Austria                     | MAK Short time value (mg/m <sup>3</sup> )                  | 5 mg/m <sup>3</sup> (inhalable fraction)  |
| Belgium                     | Limit value (mg/m <sup>3</sup> )                           | 0,5 mg/m <sup>3</sup>   |
| Bulgaria                    | OEL TWA (mg/m <sup>3</sup> )                               | 0,5 mg/m <sup>3</sup>   |
| Croatia                     | GVI (granična vrijednost izloženosti) (mg/m <sup>3</sup> ) | 0,5 mg/m <sup>3</sup>   |
| Czech Republic              | Expoziční limity (PEL) (mg/m <sup>3</sup> )                | 0,5 mg/m <sup>3</sup>   |
| Denmark                     | Grænseværdie (langvarig) (mg/m <sup>3</sup> )              | 0,5 mg/m <sup>3</sup> (powder)  |
| Estonia                     | OEL TWA (mg/m <sup>3</sup> )                               | 0,5 mg/m <sup>3</sup>   |
| Finland                     | HTP-arvo (8h) (mg/m <sup>3</sup> )                         | 0,5 mg/m <sup>3</sup>   |
| France                      | VME (mg/m <sup>3</sup> )                                   | 0,5 mg/m <sup>3</sup>   |
| Greece                      | OEL TWA (mg/m <sup>3</sup> )                               | 0,5 mg/m <sup>3</sup>   |
| Hungary                     | AK-érték   | 0,5 mg/m <sup>3</sup>   |
| Hungary                     | CK-érték   | 2 mg/m <sup>3</sup>   |
| Ireland                     | OEL (8 hours ref) (mg/m <sup>3</sup> )                     | 0,5 mg/m <sup>3</sup>   |
| Ireland                     | OEL (15 min ref) (mg/m <sup>3</sup> )                      | 1,5 mg/m <sup>3</sup> (calculated)  |
| Latvia                      | OEL TWA (mg/m <sup>3</sup> )                               | 0,2 mg/m <sup>3</sup> (metallic dust)   |
| Lithuania                   | IPRV (mg/m <sup>3</sup> )                                  | 0,5 mg/m <sup>3</sup>   |
| Netherlands                 | Grenswaarde TGG 8H (mg/m <sup>3</sup> )                    | 0,5 mg/m <sup>3</sup>   |
| Poland                      | NDS (mg/m <sup>3</sup> )                                   | 0,5 mg/m <sup>3</sup>   |
| Portugal                    | OEL TWA (mg/m <sup>3</sup> )                               | 0,5 mg/m <sup>3</sup>   |
| Romania                     | OEL TWA (mg/m <sup>3</sup> )                               | 0,20 mg/m <sup>3</sup>  |
| Romania                     | OEL STEL (mg/m <sup>3</sup> )                              | 0,50 mg/m <sup>3</sup>  |
| Romania                     | Romania - BEI  | 1 mg/l (Medium: urine - Time: end of shift - Parameter: Antimony)   |
| Slovakia                    | NPHV (priemerná) (mg/m <sup>3</sup> )                      | 0,5 mg/m <sup>3</sup> (total dust)  |
| Slovenia                    | OEL TWA (mg/m <sup>3</sup> )                               | 0,5 mg/m <sup>3</sup> (inhalable fraction)  |
| Slovenia                    | OEL STEL (mg/m <sup>3</sup> )                              | 2 mg/m <sup>3</sup> (inhalable fraction)  |
| Spain                       | VLA-ED (mg/m <sup>3</sup> )                                | 0,5 mg/m <sup>3</sup>   |
| Sweden                      | nivågränsvärde (NVG) (mg/m <sup>3</sup> )                  | 0,25 mg/m <sup>3</sup> (total inhalable dust)   |
| United Kingdom              | WEL TWA (mg/m <sup>3</sup> )                               | 0,5 mg/m <sup>3</sup>   |
| United Kingdom              | WEL STEL (mg/m <sup>3</sup> )                              | 1,5 mg/m <sup>3</sup> (calculated)  |
| Norway                      | Grenseverdier (AN) (mg/m <sup>3</sup> )                    | 0,5 mg/m <sup>3</sup>   |

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### Antimony (7440-36-0)

|                 |  |  |
|-----------------|--|--|
| Norway          | Grønseverdier (Korttidsverdi) (mg/m <sup>3</sup> ) | 0,5 mg/m <sup>3</sup>                  |
| Switzerland     | VME (mg/m <sup>3</sup> )                           | 0,5 mg/m <sup>3</sup> (inhalable dust) |
| Australia       | TWA (mg/m <sup>3</sup> )                           | 0,5 mg/m <sup>3</sup>                  |
| Canada (Quebec) | VEMP (mg/m <sup>3</sup> )                          | 0,5 mg/m <sup>3</sup>                  |
| USA - ACGIH     | ACGIH TWA (mg/m <sup>3</sup> )                     | 0,5 mg/m <sup>3</sup>                  |
| USA - IDLH      | US IDLH (mg/m <sup>3</sup> )                       | 50 mg/m <sup>3</sup>                   |
| USA - NIOSH     | NIOSH REL (TWA) (mg/m <sup>3</sup> )               | 0,5 mg/m <sup>3</sup>                  |
| USA - OSHA      | OSHA PEL (TWA) (mg/m <sup>3</sup> )                | 0,5 mg/m <sup>3</sup>                  |

### 8.2. Exposure controls

|                                  |   |
|----------------------------------|---|
| Appropriate engineering controls | : Mechanical ventilation is recommended. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. |
| Personal protective equipment    | : Safety glasses. Gloves. Insufficient ventilation: wear respiratory protection.  |
| Hand protection                  | : Wear suitable gloves tested to EN374.   |
| Eye protection                   | : Chemical goggles or face shield with safety glasses. DIN EN 166   |
| Skin and body protection         | : Wash contaminated clothing before reuse. IF ON SKIN: Wash with plenty of soap and water.  |
| Respiratory protection           | : In case of insufficient ventilation, wear suitable respiratory equipment. Wear a respirator conforming to EN140 with Type A/P2 filter or better.                |



## SECTION 9: Physical and chemical properties

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

|   |                               |
|---|-------------------------------|
| Physical state                              | : Solid                       |
| Colour                                      | : Bluish grey metal.          |
| Odour                                       | : No data available           |
| Odour threshold                             | : No data available           |
| pH  | : No data available           |
| Relative evaporation rate (butyl acetate=1) | : No data available           |
| Melting point                               | : 252,2222 - 360 °C           |
| Freezing point                              | : No data available           |
| Boiling point                               | : 1380 °C                     |
| Flash point                                 | : Non-flammable               |
| Auto-ignition temperature                   | : No data available           |
| Decomposition temperature                   | : No data available           |
| Flammability (solid, gas)                   | : Not applicable              |
| Vapour pressure                             | : No data available           |
| Relative vapour density at 20 °C            | : No data available           |
| Relative density                            | : No data available           |
| Density                                     | : 9,6 - 11,3 g/m <sup>3</sup> |
| Solubility                                  | : No data available           |
| Log Pow                                     | : No data available           |
| Viscosity, kinematic                        | : No data available           |
| Viscosity, dynamic                          | : No data available           |
| Explosive properties                        | : No data available           |
| Oxidising properties                        | : No data available           |
| Explosive limits                            | : No data available           |

### 9.2. Other information

No additional information available

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### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

Stable under normal conditions.

#### 10.2. Chemical stability

Stable at normal conditions.

#### 10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

#### 10.4. Conditions to avoid

Overcharging. Remove all sources of ignition. If battery ruptures, avoid contact with organic materials and alkaline materials. Mechanical impact.

#### 10.5. Incompatible materials

If battery ruptures, avoid contact with organic materials and alkaline materials. If battery ruptures, avoid contact with organic materials and alkaline materials.

#### 10.6. Hazardous decomposition products

Toxic fumes may be released.

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

Acute toxicity : Not classified

##### Antimony (7440-36-0)

|               |        |
|---------------|--------|
| LD50 oral rat | 7 g/kg |
|---------------|--------|

Skin corrosion/irritation : Not classified

Serious eye damage/irritation : Not classified

Respiratory or skin sensitisation : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : May damage fertility. Suspected of damaging the unborn child.

Specific target organ toxicity (single exposure) : Not classified

Specific target organ toxicity (repeated exposure) : Causes damage to organs through prolonged or repeated exposure.

Aspiration hazard : Not classified

### SECTION 12: Ecological information

#### 12.1. Toxicity

##### Lead (7439-92-1)

|             |  |
|-------------|--|
| LC50 fish 1 | 0,44 mg/l (Exposure time: 96 h - Species: Cyprinus carpio [semi-static]) |
|-------------|--|

|             |   |
|-------------|---|
| LC50 fish 2 | 1,17 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [flow-through]) |
|-------------|---|

|                |  |
|----------------|--|
| EC50 Daphnia 1 | 600 µg/l (Exposure time: 48 h - Species: water flea) |
|----------------|--|

#### 12.2. Persistence and degradability

No additional information available

#### 12.3. Bioaccumulative potential

No additional information available

#### 12.4. Mobility in soil

##### Dry Charge Lead Battery

|                |             |
|----------------|-------------|
| Ecology - soil | persistent. |
|----------------|-------------|

#### 12.5. Results of PBT and vPvB assessment

##### Dry Charge Lead Battery

|                           |  |
|---------------------------|--|
| Results of PBT assessment | The PBT and vPvB criteria of Annex XIII to the Regulation does not apply to inorganic substances |
|---------------------------|--|



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### 12.6. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

|                                |   |
|--------------------------------|---|
| Regional legislation (waste)   | : Dispose of contents/container to comply with applicable local, national and international regulations.  |
| Waste treatment methods        | : Recycling the product is recommended. Waste must be disposed of in accordance with federal, state, and local environmental control regulations.                                     |
| Waste disposal recommendations | : Consult the appropriate local waste disposal expert about waste disposal. . Since emptied containers retain product residue, follow label warnings even after container is emptied. |

## SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

### 14.1. UN number

Not regulated for transport

### 14.2. UN proper shipping name

|                             |                  |
|-----------------------------|------------------|
| Proper Shipping Name (ADR)  | : Not applicable |
| Proper Shipping Name (IMDG) | : Not applicable |
| Proper Shipping Name (IATA) | : Not applicable |
| Proper Shipping Name (ADN)  | : Not applicable |
| Proper Shipping Name (RID)  | : Not applicable |

### 14.3. Transport hazard class(es)

#### ADR

Transport hazard class(es) (ADR) : Not applicable

#### IMDG

Transport hazard class(es) (IMDG) : Not applicable

#### IATA

Transport hazard class(es) (IATA) : Not applicable

#### ADN

Transport hazard class(es) (ADN) : Not applicable

#### RID

Transport hazard class(es) (RID) : Not applicable

### 14.4. Packing group

|                      |                  |
|----------------------|------------------|
| Packing group (ADR)  | : Not applicable |
| Packing group (IMDG) | : Not applicable |
| Packing group (IATA) | : Not applicable |
| Packing group (ADN)  | : Not applicable |
| Packing group (RID)  | : Not applicable |

### 14.5. Environmental hazards

|                               |  |
|-------------------------------|--|
| Dangerous for the environment | : No                                     |
| Marine pollutant              | : No                                     |
| Other information             | : No supplementary information available |

### 14.6. Special precautions for user

#### - Overland transport

No data available

#### - Transport by sea

No data available

# Dry Charge Lead Battery

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### - Air transport

No data available

### - Inland waterway transport

No data available

### - Rail transport

No data available

### 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

#### 15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

#### 15.1.2. National regulations

##### Germany

12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

##### Netherlands

SZW-lijst van kankerverwekkende stoffen : None of the components are listed

SZW-lijst van mutagene stoffen : None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding : Lead is listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid : Lead is listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling : Lead is listed

##### Denmark

Classification remarks : Emergency management guidelines for the storage of flammable liquids must be followed

Recommendations Danish Regulation : Young people below the age of 18 years are not allowed to use the product  
Pregnant/breastfeeding women working with the product must not be in direct contact with the product

### 15.2. Chemical safety assessment

A chemical safety assessment has been carried out for the substance or the mixture by the supplier

## SECTION 16: Other information

Indication of changes:

According to Regulation (EU) 2015/830 (REACH Annex II).

Full text of H- and EUH-statements:

|                   |   |
|-------------------|---|
| Aquatic Acute 1   | Hazardous to the aquatic environment — Acute Hazard, Category 1   |
| Aquatic Chronic 1 | Hazardous to the aquatic environment — Chronic Hazard, Category 1 |
| Repr. 1A          | Reproductive toxicity, Category 1A                                |
| STOT RE 1         | Specific target organ toxicity (repeated exposure) Category 1     |
| H360              | May damage fertility or the unborn child                          |
| H360Fd            | May damage fertility. Suspected of damaging the unborn child      |
| H372              | Causes damage to organs through prolonged or repeated exposure    |
| H400              | Very toxic to aquatic life  |
| H410              | Very toxic to aquatic life with long lasting effects              |

# Dry Charge Lead Battery

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*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product*