

# Safety Data Sheet

according to Regulation (EC) No. 453/2010

Date of issue: 25/03/2015 Revision date: 25/03/2015 : SDS – Auto Dry Charged Version: 1.0

Doc Ref: QAPTEC0015

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

## 1.1. Product identifier

Product form : Mixture

Product name : Automotive Dry Charged Lead Battery (No Acid)

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

#### 1.2.1. Relevant identified uses

Use of the substance/mixture : Automotive Electric Storage Battery

#### 1.2.2. Uses advised against

No additional information available

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

Yuasa Battery Sales (UK) Ltd

Unit 13, Hunts Rise, South Marston Industrial Park

SN4TG Swindon

T +448-8708-500259 - F +44-8708-500317 email: matt.jordan@yuasaeurope.com

#### 1.4. Emergency telephone number

Emergency number : +44(0)1793833562 (09:00 – 17:00 Monday to Friday)

## **SECTION 2: Hazards identification**

#### 2.1. Classification of the substance or mixture

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

Repr. 1A H360Fd STOT RE 1 H372 Aquatic Acute 1 H400 Aquatic Chronic 1 H410

Full text of H-phrases: see section 16

# Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

Xn; N; Repr.Cat.1; R60-61-50/53 Full text of R-phrases: see section 16

#### Adverse physicochemical, human health and environmental effects

No additional information available

# 2.2. Label elements

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

Hazard pictograms (CLP) :





GHS08

S08 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.

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# **SECTION 3: Composition/information on ingredients**

#### **Substance**

Not applicable

#### Mixture

Name	Product identifier	%	Classification according to Directive 67/548/EEC
Lead	(CAS No) 7439-92-1 (EC no) 231-100-4 (REACH-no) not available	89 - 92	Repr.Cat.1; R60 Repr.Cat.1; R61 Xn; R48/20/22 N; R50/53
Antimony	(CAS No) 7440-36-0 (EC no) 231-146-5 (REACH-no) not available	0,2	Not classified
Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Lead	(CAS No) 7439-92-1 (EC no) 231-100-4 (REACH-no) not available	89 - 92	Repr. 1A, H360 STOT RE 1, H372 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=10)
Antimony	(CAS No) 7440-36-0 (EC no) 231-146-5 (REACH-no) not available	0,2	Not classified

Full text of R- and H-phrases: see section 16

Note: In normal usage there is no risk to people or the environment from handling and using this article. It is only in the exceptional case of an accident or severe damage that there may be minimal exposure to the constituent materials listed above.

## **SECTION 4: First aid measures**

	- 1 A		
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 scratchexposed

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.

#### 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.

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

No additional information available

## **SECTION 5: Firefighting measures**

#### **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.

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

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

: Toxic gases and fumes may be released in a fire.

#### **Advice for firefighters** 5.3.

Protective equipment for firefighters

: Use self-contained breathing apparatus and chemically protective clothing

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# **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

Lead (7439-92-1)		
Austria	MAK (mg/m³)	0,1 mg/m³ (inhalable fraction)
Austria	MAK Short time value (mg/m³)	0,4 mg/m³ (inhalable fraction)
Bulgaria	OEL TWA (mg/m³)	0,05 mg/m³
Croatia	GVI (granična vrijednost izloženosti) (mg/m³)	0,15 mg/m³
Cyprus	OEL TWA (mg/m³)	0,15 mg/m³
Czech Republic	Expoziční limity (PEL) (mg/m³)	0,05 mg/m³
Denmark	Grænseværdie (langvarig) (mg/m³)	0,05 mg/m³ (dust, fume and powder)
Estonia	OEL TWA (mg/m³)	0,1 mg/m³ (total dust) 0,05 mg/m³ (respirable dust)
Finland	HTP-arvo (8h) (mg/m³)	0,1 mg/m³ (all works)
France	VME (mg/m³)	0,1 mg/m³ (restrictive limit)
Germany	TRGS 903 (BGW)	300 µg/l (Medium: whole blood - Time: no restriction - Parameter: Lead (women age below 45 years) 400 µg/l (Medium: whole blood - Time: no restriction - Parameter: Lead (women 45 years and older)
Gibraltar	OEL TWA (mg/m³)	0,15 mg/m³
Greece	OEL TWA (mg/m³)	0,15 mg/m³
Hungary	AK-érték	0,15 mg/m <sup>3</sup>

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Lead (7439-92-1)		
Ireland	OEL (8 hours ref) (mg/m³)	0,15 mg/m³
Ireland	OEL (15 min ref) (mg/m3)	0,45 mg/m³ (calculated)
Italy	OEL TWA (mg/m³)	0,075 mg/m³
Latvia	OEL TWA (mg/m³)	0,005 mg/m³
Lithuania	IPRV (mg/m³)	0,15 mg/m³ (inhalable fraction) 0,07 mg/m³ (respirable fraction)
Luxembourg	OEL TWA (mg/m³)	0,15 mg/m³
Poland	NDS (mg/m³)	0,05 mg/m³
Portugal	OEL TWA (mg/m³)	0,15 mg/m³ (mandatory indicative limit value)
Romania	OEL TWA (mg/m³)	0,05 mg/m³
Romania	OEL STEL (mg/m³)	0,10 mg/m³
Slovakia	NPHV (priemerná) (mg/m³)	0,15 mg/m³
Slovenia	OEL TWA (mg/m³)	0,1 mg/m³ (inhalable fraction)
Slovenia	OEL STEL (mg/m³)	0,4 mg/m³ (inhalable fraction)
Spain	VLA-ED (mg/m³)	0,15 mg/m³
Sweden	nivågränsvärde (NVG) (mg/m³)	0,1 mg/m³ (total inhalable dust) 0,05 mg/m³ (total respirable dust)
United Kingdom	WEL TWA (mg/m³)	0,15 mg/m³
United Kingdom	WEL STEL (mg/m³)	0,45 mg/m³ (calculated)
Norway	Gjennomsnittsverdier (AN) (mg/m³)	0,05 mg/m³ (dust and fume)
Norway	Gjennomsnittsverdier (Korttidsverdi) (mg/m3)	0,15 mg/m³ (dust and fume)
Switzerland	VME (mg/m³)	0,1 mg/m³ (inhalable)
Switzerland	VLE (mg/m³)	0,8 mg/m³ (inhalable)
Australia	TWA (mg/m³)	0,15 mg/m³ (dust and fume)
Canada (Quebec)	VEMP (mg/m³)	0,05 mg/m³
USA - ACGIH	ACGIH TWA (mg/m³)	0,05 mg/m³
USA - IDLH	US IDLH (mg/m³)	100 mg/m³
USA - NIOSH	NIOSH REL (TWA) (mg/m³)	0,050 mg/m³
USA - OSHA	OSHA PEL (TWA) (mg/m³)	50 μg/m³

Antimony (7440-36-0)			
Austria	MAK (mg/m³)	0,5 mg/m³ (inhalable fraction)	
Austria	MAK Short time value (mg/m³)	5 mg/m³ (inhalable fraction)	
Belgium	Limit value (mg/m³)	0,5 mg/m³	
Bulgaria	OEL TWA (mg/m³)	0,5 mg/m³	
Croatia	GVI (granična vrijednost izloženosti) (mg/m³)	0,5 mg/m³	
Czech Republic	Expoziční limity (PEL) (mg/m³)	0,5 mg/m³	
Denmark	Grænseværdie (langvarig) (mg/m³)	0,5 mg/m³ (powder)	
Estonia	OEL TWA (mg/m³)	0,5 mg/m <sup>3</sup>	
Finland	HTP-arvo (8h) (mg/m³)	0,5 mg/m³	
France	VME (mg/m³)	0,5 mg/m³	
Greece	OEL TWA (mg/m³)	0,5 mg/m³	
Hungary	AK-érték	0,5 mg/m³	
Hungary	CK-érték	2 mg/m³	
Ireland	OEL (8 hours ref) (mg/m³)	0,5 mg/m <sup>3</sup>	
Ireland	OEL (15 min ref) (mg/m3)	1,5 mg/m³ (calculated)	
Latvia	OEL TWA (mg/m³)	0,2 mg/m³ (metallic dust)	
Lithuania	IPRV (mg/m³)	0,5 mg/m³	
Netherlands	Grenswaarde TGG 8H (mg/m³)	0,5 mg/m³	
Poland	NDS (mg/m³)	0,5 mg/m <sup>3</sup>	
Portugal	OEL TWA (mg/m³)	0,5 mg/m³	
Romania	OEL TWA (mg/m³)	0,20 mg/m³	
Romania	OEL STEL (mg/m³)	0,50 mg/m³	

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Antimony (7440-36-0)		
Slovakia	NPHV (priemerná) (mg/m³)	0,5 mg/m³ (total dust)
Slovenia	OEL TWA (mg/m³)	0,5 mg/m³ (inhalable fraction)
Slovenia	OEL STEL (mg/m³)	2 mg/m³ (inhalable fraction)
Spain	VLA-ED (mg/m³)	0,5 mg/m³
Sweden	nivågränsvärde (NVG) (mg/m³)	0,25 mg/m³ (total inhalable dust)
United Kingdom	WEL TWA (mg/m³)	0,5 mg/m³
United Kingdom	WEL STEL (mg/m³)	1,5 mg/m³ (calculated)
Norway	Gjennomsnittsverdier (AN) (mg/m³)	0,5 mg/m³
Norway	Gjennomsnittsverdier (Korttidsverdi) (mg/m3)	1,5 mg/m³
Switzerland	VME (mg/m³)	0,5 mg/m³ (inhalable)
Australia	TWA (mg/m³)	0,5 mg/m³
Canada (Quebec)	VEMP (mg/m³)	0,5 mg/m³
USA - ACGIH	ACGIH TWA (mg/m³)	0,5 mg/m³
USA - IDLH	US IDLH (mg/m³)	50 mg/m³
USA - NIOSH	NIOSH REL (TWA) (mg/m³)	0,5 mg/m³
USA - OSHA	OSHA PEL (TWA) (mg/m³)	0,5 mg/m³

## 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 : 1380 °C Boiling point Flash point : Non-flammable : No data available Auto-ignition temperature 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

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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

# **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

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])
EC50 Daphnia 1	600 μg/l (Exposure time: 48 h - Species: water flea)
LC50 fish 2	1,17 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [flow-through])

#### 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 (All modes) : Not applicable

#### 14.3. Transport hazard class(es)

Transport hazard class(es) : Not applicable

## 14.4. Packing group

Packing group (All modes) : 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

# 14.6.1. Overland transport

Subject to ADR : No

# 14.6.2. Transport by sea

Subject to IMDG : No

#### 14.6.3. Air transport

Subject to IATA : No

#### 14.6.4. Inland waterway transport

Subject to ADN : No

# 14.6.5. Rail transport

Subject to RID : No

# 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 substances with Annex XVII restrictions

Dry Charge Lead Battery is not on the REACH Candidate List

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

# 15.1.2. National regulations

#### Germany

Water hazard class (WGK) : 2 - hazard to waters

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# 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**

# Full text of R-, H- and EUH-phrases:

	The second of th	
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	
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	
R48/20/22	Harmful: danger of serious damage to health by prolonged exposure through inhalation and if swallowed	
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment	
R60	May impair fertility	
R61	May cause harm to the unborn child	
N	Dangerous for the environment	
Xn	Harmful	

# SDS EU (REACH Annex II)

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

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