

Material Safety Data Sheet

“Battery, dry charged”

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Date 18-2-2020 / 2016-01-27 MSDS Dry Charged Battery.doc

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I. PRODUCT IDENTIFICATION

Chemical/Trade Name (Identity used on label)	Battery, dry charged / Intact Start-Power / Intact Oldtimer-Power
Chemical Family/Classification	Electric Storage Battery - Battery, dry charged without acid
Company name	Stefan Keckeisen Akkumulatoren e.K.
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II. HAZARDOUS INGREDIENTS

Materials	% Volumetric Weight	CAS number	MAC value	R-sentences
Lead (Pb)	30 – 50	7439-22-1	15 mg/m ³	---
Lead dioxide (PbO ₂)	35 – 50	1309-60-0 (powder)	15 mg/m ³	61-20/22-33/62
Lead sulphate (PbSO ₄)	5 – 20	7446-14-2	0,15 mg/m ³	61-20/22-33/62
Box / Lid (Polypropylene)	3 – 8	N/A	N/A	---

III. HAZARDS

Danger	Lead compounds – the substance decomposes when extremely heated to lead vapour and oxygen. The compound reacts vigorously with reducing agents and produces chlorine when exposed to hydrochloric acid.
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IV. FIRST AID MEASURES

Inhalation	Lead compounds – Take person into fresh air. Keep the victim calm in a half-sitting way. Rinse nose and mouth and consult a physician. (N/A for wet filled batteries).
Skin contact	Lead compounds – N/A
Eye contact	Lead compounds – hold eyelids open and rinse for a long period with cool water, and, if possible, first take out contact lenses. Don't use neutralizing agents, and immediately consult a physician.
Ingestion	Lead compounds – Immediately rinse mouth and take the person to the hospital as soon as possible.

V. FIRE AND EXPLOSION HAZARD DATA

Flashpoint	N/A
Explosion limits	N/A
Extinguishing Media	CO ₂ , foam and powder. Lead compounds are not combustible but side reactions can cause the formation of hydrogen (H ₂).
Special fire fighting procedures	Wear protective clothing and self containing breathing apparatus
Note on fire and explosion hazard	N/A

VI. PROTECTIVE MEASURES TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED

Personal Measures	Use protective clothing, and wear safety goggles (or a face-shield) and a dust/mist half-face P1 respirator.
Environmental Measures	Remove spilled dust with, preferably, a vacuum cleaner and seal the dust in a container. Do not dispose of the lead containing dust in the trash.
Waste Disposal Method	The container with the lead containing dust can be returned to the battery manufacturer for recycling.

VII. HANDLING AND STORING PRECAUTIONS

Technical Measures	Store the dry charged batteries at a dark and cool place. Ensure pallets of product are secure from topping over.
Procedure	Check if the layers of batteries are on top of each other and that the pallets don't lean over Prevent dropping or damaging the batteries.

VIII. SAFE HANDLING PRECAUTIONS

Personal Hygiene	Wash hands thoroughly before eating or drinking, or putting on make-up.
Preventive measures at non-routine tasks, including normal maintenance	Place "smoking prohibited" signs.
Personal Protection Means	
Respiratory Protection	Breathing apparatus is not required under normal circumstances.
Eyes and facial protection	Safety goggles or face shield are not required under normal circumstances.
Hands, arms and body protection	Wear clothing that can be washed after removing a broken battery.
Other Special Clothing and Equipment	Use safety shoes with rubber or neoprene boots or steel-toed rubber or neoprene boots worn over socks.

IX. PHYSICAL DATA

	Lead	Lead dioxide
Material is	Solid	Solid
Colour	Dark Grey	Dark brown
Odour		
Boiling Range	1740°C	N/A
PH		
Viscosity		
Melting Point	327°C	N/A
Decompositioning temperature		290°C
Vapour Pressure		

Vapour Density		
Specific Gravity	11,3 kg/l	9,4 kg/l
Flash point		
Explosion limits		
Solubility (H ₂ O)	Insoluble	Insoluble

X. REACTIVITY AND STABILITY

Stability	Stable under normal circumstances.
Conditions to avoid	Do not store dry charged batteries in salty air.
Incompatibility (materials to avoid)	Avoid strong oxidisers: Reacts with concentrated nitric and hydrochloric acid but is resistant to hydrofluoric acid. Attack by weak organic acids "acetic acids" can occur in the presence of oxygen.
Hazardous Decomposition Products	High temperatures are likely to produce toxic metal fumes, vapor or dust; contact with strong acid or base or presence of nascent hydrogen may generate highly toxic arsine gas.
Hazardous Polymerisation	N/A

XI. TOXICOLOGICAL INFORMATION

Routes and methods of entry

Inhalation	Inhalation of lead dust or fumes may cause irritation of upper respiratory tract and lungs.
Skin Contact	Lead compounds may cause irritation of the skin.
Skin Absorption	Skin absorption is not a significant route of entry.
Eye Contact	Lead compounds may cause eye irritation, inflammation and physical damage.
Ingestion	Acute ingestion of lead compounds may cause abdominal pain, nausea, vomiting, diarrhea and severe cramping. This may lead rapidly to systemic toxicity and must be treated by a physician.

Signs and symptoms of overexposure

Acute Effects	Symptoms of toxicity include headache, fatigue, abdominal pain, loss of appetite, muscular aches and weakness, sleep disturbances and irritability.
Chronic Effects	Anemia; neuropathy, particularly of the motor nerves, with wrist drop; kidney damage; reproductive changes in males and females.

XII. ENVIRONMENTAL INFORMATION

Environnemental Protection	Do not dispose of in sewer, ground water or open water course. May not be disposed of in a diluted or neutralised substance in an open water course or sewer. Danger for contaminating drinking water, even in very low amounts when disposed of.
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XIII. WASTE DISPOSAL METHODS:

Storage	Place damaged dry charged batteries in a sealed container. Don't stack the batteries too high and use the container solely for lead compounds and not for other waste.
Removal	Send damaged dry charged batteries and lead compounds to secondary lead smelter for recycling. Handle as applicable with state and federal regulations.

XIV. INFORMATION FOR TRANSPORTATION

Road Transport (ADR/RID) (International) ADR/GGVS/E Class Number Kemler number	Not regulated as a Hazardous Material
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UN - number	
Label	
Description	
Naval Transport (IMDG): IMDG class Page UN – number Packaging group EMS – number MFAG Marine pollutant Description	Not regulated as a Hazardous Material
Air Transport (ICAO – TI and IATA – DGR): ICAO/IATA class UN/ID – number Packaging group Description	Not regulated as a Hazardous Material

XV. LEGALLY REQUIRED INFORMATION

Classification according EEC-guidelines	
Lead (powder)	EC-nr: 231-100-4
Lead compounds	---
Symbol(s)	C – Corrosive
R – Sentence	R20/22 – Harmful inhalation or when swallowed R33 – Causes severe burns. R58 – May cause long term adverse effects in the environment R61 – May cause harm to the unborn child R61 – Possible risk of impaired fertility
S – Sentences	S2 – keep away from children. S26 – In case of eye contact immediately rinse with plenty of water and consult physician. S45 – in case of accident or if you feel unwell seek medical advice S53 – Avoid exposure; obtain special instructions before use.

XV. ADDITIONAL INFORMATION

Legislation	This MSDS is according to guideline EEC 91/155/EEG.
Disclaimer	The information to compose this document has been gathered with great care from existing data. The manufacturer will not accept any damage or injury, whatever kind or size, which may result of using this document.
Date first issue	May 24 TH 2000
Date current issue	January 27 TH 2016
Version Number	3