

## Safety data sheet

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Version: 03.03/GBR

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

#### 1.1. Product identifier

Trade name: LAGD 60/125 (Battery)

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

Recommended uses: Battery.

According to REACH, the product is an article and is consequently not subject to the requirement for a safety data sheet.

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

Supplier: SKF MAINTENANCE PRODUCTS  
Postbus 1008  
NL-3430 BA Nieuwegein  
The Netherlands  
Tel: +31 30 6307200  
Email: sebastien.david@skf.com  
WWW: www.skf.com

#### 1.4. Emergency telephone number

0870 600 6266 (UK only) Only available to health professionals.

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### SECTION 2: Hazards identification

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

CLP-classification (Regulation  
(EC) No 1272/2008):

The product shall not be classified as hazardous according to the classification and labelling rules for substances and mixtures.

Most serious harmful effects:

According to REACH, the product is an article and is consequently not subject to the requirement for a safety data sheet. The intact article does not pose any danger.

#### 2.2. Label elements

The product shall not be classified as hazardous according to the classification and labelling rules for substances and mixtures.

#### 2.3. Other hazards

ONLY SERIOUS MECHANICAL DAMAGE OR HEATING OF THE CARTRIDGE MAY LEAD TO EXPOSURE OF THE FOLLOWING HAZARDS:

##### HEALTH

Corrosive. Harmful by inhalation. Limited evidence of a carcinogenic effect. May cause sensitisation by skin contact. Harmful: danger of serious damage to health by prolonged exposure through inhalation. May cause harm to the unborn child.

##### FIRE AND EXPLOSION

Not flammable, but combustible.

## ENVIRONMENT

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

### SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

Registration number	CAS/EC Number	Substance	CLP-classification (Regulation (EC) No 1272/2008)	w/w%	Note
.	1313-13-9	manganese dioxide	Acute Tox. 4 *;H332 Acute Tox. 4 *;H302	13-40	.
.	215-202-6	.	.	.	.
.	7440-66-6-S	Zinc powder - zinc dust (stabilized)	Aquatic Acute 1;H400 Aquatic Chronic 1;H410	18-44	.
.	231-175-3	.	.	.	.
.	1310-58-3	potassium hydroxide	Acute Tox. 4 *;H302 Skin Corr. 1A;H314	1-3	.
.	215-181-3	.	.	.	.
.	7439-97-6	mercury	Repr. 1B;H360D*** Acute Tox. 2 *;H330 STOT RE 1;H372** Aquatic Acute 1;H400 Aquatic Chronic 1;H410	<5 mg/kg	.
.	231-106-7	.	.	.	.
.	.	.	.	.	.
.	7439-92-1-a	lead	Repr. 1A;H360FD Lact.;H362	0,01-0,03	.
.	231-100-4	.	.	.	.
.	7440-43-9	cadmium (non-pyrophoric)	Carc. 1B;H350 Muta. 2;H341 Repr. 2;H361fd Acute Tox. 2 *;H330 STOT RE 1;H372 ** Aquatic Acute 1;H400 Aquatic Chronic 1;H410	<5 mg/kg	14
.	231-152-8	.	.	.	.
.	.	.	.	.	.
.	7440-02-0	nickel	Carc. 2;H351 STOT RE 1;H372** Skin Sens. 1;H317	27-70	.
.	231-111-4	.	.	.	.
.	.	.	.	.	.
.	7440-50-8-B	copper	.	2-5	13
.	231-159-6	.	.	.	.

13) The substance has a national exposure limit.

14) The substance is included in the candidate list (SVHC), Regulation 1907/2006/EC, Article 59.

Please see section 16 for the full text of H-phrases.

Other information: Any letters after the CAS number refer to individual data sets.

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

Inhalation:	Seek fresh air. Seek medical advice in case of persistent discomfort.
Ingestion:	Do not induce vomiting. If vomiting occurs, keep head low so that stomach contents do not enter lungs. Wash out mouth thoroughly and drink 1-2 glasses of water in small sips. Seek medical advice immediately.
Skin:	Immediately remove contaminated clothing, watch and jewellery. Wash skin with soap and water. Seek medical advice immediately.
Eyes:	Open eye wide, remove any contact lenses and flush immediately with water (preferably using eye wash equipment). Seek medical advice immediately. Continue flushing until medical attention is obtained.
Other information:	When obtaining medical advice, show the safety data sheet or label.

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

##### GENERAL

Intact, closed container: No special precautions required.

ONLY SERIOUS MECHANICAL DAMAGE OR HEATING OF THE CARTRIDGE MAY LEAD TO EXPOSURE OF THE FOLLOWING HAZARDS:

Corrosive. Harmful by inhalation. Limited evidence of a carcinogenic effect. May cause sensitisation by skin contact. Harmful: danger of serious damage to health by prolonged exposure through inhalation. May cause harm to the unborn child.

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

Treat symptoms. Ensure that medical personnel are aware of the material involved, and take precautions to protect themselves.

### SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media Extinguish with powder, foam, carbon dioxide or water mist. Use water or water mist to cool non-ignited stock.

Unsuitable extinguishing media Do not use water stream, as it may spread the fire.

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

Not flammable, but combustible. The product decomposes when combusted and the following toxic gases can be formed: Carbon monoxide and carbon dioxide/ Nitrous gases/

### 5.3. Advice for firefighters

Move containers from danger area if it can be done without risk. Avoid inhalation of vapour and flue gases – seek fresh air. Extinguishing water which has been in contact with the product may be corrosive. Wear Self-Contained Breathing Apparatus (SCBA) with a chemical protection suit.

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## SECTION 6: Accidental release measures

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

For non-emergency personnel: Stay upwind/keep distance from source. Wear gloves. Wear respiratory protective equipment. Wear safety goggles/face protection.

For emergency responders: In addition to the above: Chemical protective suit equivalent to EN 943-2 is recommended.

### 6.2. Environmental precautions

Prevent spillage from entering drains and/or surface water.

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

Contain and absorb spill with sand or other absorbent material and transfer to suitable waste containers. Wipe up minor spills with a cloth. Caution! Causes burns.

### 6.4. Reference to other sections

See section 8 for type of protective equipment. See section 13 for instructions on disposal.

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## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Use the product under well-ventilated conditions. Running water and eye wash equipment must be available. Wash hands before breaks, before using restroom facilities, and at the end of work.

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

Store safely, out of reach of children and away from food, animal feeding stuffs, medicines, etc. Keep in tightly closed original packaging. Store in a dry area. Do not store with the following: Acids.

### 7.3. Specific end use(s)

None.

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## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

Occupational exposure limits:

Ingredient:	Exposure limit	Comments
potassium hydroxide	- (8h), - (15m) ppm	-
.	- (8h), 2 (15m) mg/m3	.
lead	- ppm 0,15 mg/m3	-
nickel	- (8h), - (15m) ppm	Sk
.	0.5 (8h), - (15m) mg/m3	.
cadmium (non-pyrophoric)	- (8h), - (15m) ppm	-
.	0.025 (8h), - (15m) mg/m3	.
copper	1 (8h), 2 (15 min) mg/m3	.
mercury	- (8h), - (15m) ppm 0,02 (8h), - (15m) mg/m3	-

Legal basis: EH40/2005 Workplace exposure limits. Last amended December 2011.

Comments: Sk: Can be absorbed through skin Der mangler tekstUK#.

Measuring methods: Compliance with the stated occupational exposure limits may be checked by occupational hygiene measurements.

### 8.2. Exposure controls

Appropriate engineering controls: Wear the personal protective equipment specified below.

Personal protective equipment, eye/face protection:	Intact, closed container: Not required. Wear safety goggles if there is a risk of eye splash. Eye protection must conform to EN 166.
Personal protective equipment, skin protection:	Intact, closed container: Not required. In the event of direct skin contact, wear protective gloves: Type of material: Butyl rubber. Gloves must conform to EN 374.
Personal protective equipment, respiratory protection:	Intact, closed container: Not required. In case of risk of formation of spray mist, wear respiratory protective equipment with P2 filter. Respiratory protection must conform to one of the following standards: EN 136/140/145.
Environmental exposure controls:	Ensure compliance with local regulations for emissions.

## SECTION 9: Physical and chemical properties

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

State:	Intact, closed container (Paste )
Colour:	No data
Odour:	No data
Odour threshold:	No data
pH (solution for use):	No data
pH (concentrate):	No data
Melting point/freezing point:	No data
Initial boiling point and boiling range:	No data
Flash point:	No data
Evaporation rate:	No data
Flammability (solid, gas):	No data
Upper/lower flammability limits:	No data
Upper/lower explosive limits:	No data
Vapour pressure:	No data
Vapour density:	No data
Relative density:	No data
Solubility:	No data
Partition coefficient n-octanol/water:	No data
Auto-ignition temperature:	No data
Decomposition temperature:	No data
Viscosity:	No data
Explosive properties:	No data
Oxidising properties:	No data

### 9.2. Other information

None.

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Reacts with the following: Acids/ Oxidisers.

### 10.2. Chemical stability

The product is stable when used in accordance with the supplier's directions.

### 10.3. Possibility of hazardous reactions

None known.

### 10.4. Conditions to avoid

Avoid heating and contact with ignition sources.

### 10.5. Incompatible materials

Avoid contact with the following: Acids/ Oxidisers.

### 10.6. Hazardous decomposition products

The product decomposes when combusted or heated to high temperatures and the following toxic gases can be formed: Carbon monoxide and carbon dioxide/ Nitrous gases.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity - oral: The product does not have to be classified. Test data are not available.

Acute toxicity - dermal:	The product does not have to be classified. Test data are not available.
Acute toxicity - inhalation:	Harmful by inhalation. Test data are not available.
Skin corrosion/irritation:	Has a caustic burning effect and causes burning pain, reddening, blistering and burning sores if it comes in contact with skin. Test data are not available.
Serious eye damage/eye irritation:	Eye contact may result in deep caustic burns, pain, tearing and cramping of the eyelids. Risk of serious eye injury and loss of sight. Test data are not available.
Respiratory sensitisation or skin sensitisation:	May cause sensitization by skin contact. Symptoms include reddening, swelling, blistering and ulceration – often slowly developing. Test data are not available.
Germ cell mutagenicity:	The product does not have to be classified. Test data are not available.
Carcinogenic properties:	The product contains at least one carcinogenic substance. Test data are not available.
Reproductive toxicity:	May damage the unborn child. Test data are not available.
Single STOT exposure:	The product does not have to be classified. Test data are not available. Inhalation of vapours may cause irritation to the upper airways.
Repeated STOT exposure:	May cause damage to organs through prolonged or repeated exposure. Test data are not available.
Aspiration hazard:	The product does not have to be classified. Test data are not available.
Other toxicological effects:	No hazards.

## SECTION 12: Ecological information

### 12.1. Toxicity

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Test data are not available.

### 12.2. Persistence and degradability

Test data are not available.

7439-92-1-A: Not readily biodegradable.

### 12.3. Bioaccumulative potential

Test data are not available.

7439-92-1-A: Partition coefficient n-octanol/water: 0,73

### 12.4. Mobility in soil

Test data are not available.

### 12.5. Results of PBT and vPvB assessment

No assessment has been made.

### 12.6. Other adverse effects

Intact, closed container: No hazards.

Hydrogen gas generating cells do contain lead, and do not contain mercury and cadmium as defined by the European directive 2006/66/EC Article 21.

Mercury has not been "intentionally introduced (as distinguished from mercury that may be incidentally present in other materials)" in the sense of the U.S.A. "Mercury-Containing and Rechargeable Battery Management Act" (May 13 1996).

The Regulation of Mercury Content Limitation for Batteries promulgated on 1997-12-31 by the China authorities including the State Administration of Light Industry and the State Environmental Protection Administration defines 'low mercury' as 'mercury content by weight in battery as less than 0.025%', and 'mercury free' as mercury content by weight in battery as less than 0.0001%'. And therefore: VARTA gas generating button cells – series V ... MF belong to

the category of low-mercury battery (mercury content lower than 0.025%).

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## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Avoid discharge to drain or surface water.

Collect spills and waste in closed, leak-proof containers for disposal at the local hazardous waste site.

EWC code: Depends on line of business and use, for instance 16 06 04 alkaline batteries (except 16 06 03)

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## SECTION 14: Transport information

The product is not covered by the rules for transport of dangerous goods.

### 14.1. UN number

-

### 14.2. UN proper shipping name

-

### 14.3. Transport hazard class(es)

-

### 14.4. Packing group

-

### 14.5. Environmental hazards

-

### 14.6. Special precautions for user

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### 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

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## SECTION 15: Regulatory information

Covered by: Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

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

Special provisions: None.

### 15.2. Chemical safety assessment

Chemical safety assessment has not been performed.

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## SECTION 16: Other information

Changes have been made in the following sections: 1,12,16

### Abbreviation explanations:

PBT: Persistent, Bioaccumulative and Toxic  
vPvB: Very Persistent and Very Bioaccumulative  
STOT: Specific Target Organ Toxicity

### Classification method:

Calculation based on the hazards of the known components.

### H-phrases:

H302 Harmful if swallowed.  
H314 Causes severe skin burns and eye damage.  
H317 May cause an allergic skin reaction.  
H330 Fatal if inhaled.  
H332 Harmful if inhaled.  
H341 Suspected of causing genetic defects.  
H350 May cause cancer.  
H351 Suspected of causing cancer.  
H361fd Suspected of damaging 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.

### Training:

A thorough knowledge of this safety data sheet should be a prerequisite condition.

Other information:

This safety data sheet has been prepared for and applies to this product only. It is based on our current knowledge and the information that the supplier was able to provide about the product at the time of preparation. The safety data sheet complies with applicable law on preparation of safety data sheets in accordance with 1907/2006/EC (REACH) as subsequently changed. Any substances from the candidate list (SVHC), regulation 1907/2006/EC article 59 will be mentioned in section 3 with note 14.

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