Safety data sheet

Version: 03.01/USA

SECTION 1: Identification

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.

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

For Chemical Emergency
Spill, Leak, Fire, Exposure, or Accident
Call CHEMTREC Day or Night
Within USA and Canada: 1-800-424-9300.
1-703-527-3887 (collect calls accepted)

Location:
CHEMTREC
2900 Fairview Park Drive
Falls Church VA 22042-4513
USA

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

+31 30 6307200

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification:

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

Most serious harmful effects:

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 national classification and labelling rules.

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

CAS No.	Substance	w/w%	Note
1313-13-9	manganese dioxide	13-40	.
215-202-6	.	.	.
7440-66-6	Zinc powder - zinc dust (stabilized)	18-44	.
231-175-3	.	.	.
1310-58-3	potassium hydroxide	1-3	.
215-181-3	.	.	.
7439-97-6	mercury	<5	.
231-106-7	.	mg/kg	.
.	.	.	.
.	.	.	.
7439-92-1	lead	0,01-0,0	.
231-100-4	.	3	.
7440-43-9	cadmium (non-pyrophoric)	<5	.
231-152-8	.	mg/kg	.
.	.	.	.
.	.	.	.
.	.	.	.
.	.	.	.
7440-02-0	nickel	27-70	.
231-111-4	.	.	.
.	.	.	.
7440-50-8	copper	2-5	.
231-159-6	.	.	.

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 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 advice is obtained.

Other information: Bring the safety data sheet or label when seeking medical advice

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: Fire-fighting 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 inventory.

Unsuitable extinguishing media: Do not use a jet of water, 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 vapor and smoke gases – seek fresh air. Extinguishing water which has been in contact with the product may be corrosive. Wear Self-Contained Breathing Apparatus with a chemical protection suit.

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 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 spills using 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.

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, drugs, 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.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits:

Ingredient:	Exposure limit	Notations
lead	- ppm 0,05 mg/m3	-
mercury	- ppm 0,02 mg/m3	-

Legal basis: ACGIH Threshold Limit Values (TLV's) and Biological Exposure Indices (BEI's), 2014. OSHA 29 CFR part 1910.1000, table Z1-Z3, Limits for Air Contaminants 2006.

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.

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.
Personal protective equipment, respiratory protection:	Intact, closed container: Not required.
	In the event of spray-mist hazard, wear respiratory protective equipment with P2 filter.
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)
Color:	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
Vapor 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
Oxidizing 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 on 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.
	This product contains carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.
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 vapors 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.

12.3. Bioaccumulative potential

Test data are not available.

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%).

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Avoid discharge to drain or surface water.

If this product as supplied becomes a waste, it meets the criteria of a hazardous waste as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.

Disposal should be in accordance with applicable regional, national and local laws and regulations. Local regulations may be more stringent than regional or national requirements.

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

-

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

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SECTION 15: Regulatory information

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

Special provisions: None.

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.

US Federal

CERCLA: Zinc powder - zinc dust (stabilized), 1000lbs (RQ); potassium hydroxide, 1000 lbs (RQ); nickel, 100 lbs (RQ); mercury, 1 lbs (RQ); cadmium (non-pyrophoric), 10 lbs (RQ); Copper, 5000 lbs (RQ)

SARA title III Rules

Section 313: Zinc powder - zinc dust (stabilized), 18-44 %; mercury, 0,4-1%; lead, 0,01-0,03%; cadmium (non-pyrophoric), <5%; Nickel, 27-60%; Copper, 2-5%

NFPA ratings (scale 0 - 4)

Health Hazard: 3

Flammability: 1

Instability: 0

HMIS III ratings (scale 0 - 4)

Health hazard: 3; *

Flammability: 1

Physical hazard: 0

State regulations

Proposition 65

Chemicals known to cause cancer:
nickel

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.
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 CFR29, §1910.1200.
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