

Material Safety Data Sheet

GLADIATOR BATTERY, WET FILLED WITH ACID

Infosafe: SPB 9/2008/12
No:

Issue: September 2008
Date

Status: Issued by SPB

Classified as hazardous

1/16 IDENTIFICATION OF THE SUBSTANCE/PREPERATION AND COMPANY /UNDERTAKING

Product

Name: GLADIATOR BATTERY, WET FILLED WITH ACID

Product

Code: 27-DC, 31-DC, S-185, S-250, S-305, S-350, GC-105, GC-125,
GC-145, GC-870

Product Use; Lead /acid storage battery

Company

Name: SEALED PERFORMANCE BATTERIES PTY LTD

Address: 6 Access Avenue Yatala,
Queensland, Australia, 4207

Emergency

Tel 07-3386 1102

Other

Names:	Name	Product Code
	BATTERY, WET, FILLED WITH ACID	

2/16 COMPOSITION/INFORMATION ON INGREDIENTS

Information

On

Composition

Ingredients	Name	Cas	Proportion
	Battery Container	Polypropylene	
	Lead/Lead Oxide	7439-92-1	30-60%
	Sulphuric Acid	7664-93-9	10-30%
	Polypropylene/Polyethylene	Mixture	Balance

Substance

Chemical: Liquid Content – Sulphuric Acid

Family VOL/WGT: Varies with model

Dangerous

Components

Constituents Formula/ Lead/acid

3/16 HAZARDS IDENTIFICATION

Danger of cumulative effects.
Causes severe burns.
Possible risk of impaired fertility.
May cause harm to the unborn child
Harmful by inhalation and if swallowed

Reproductive Toxicity

According to NOHSC this product is category (1) reproductive hazard-May cause harm to unborn child. Possible risk of impaired fertility.

Chronic Effects

Inhalation

Danger of Cumulative effects, harmful via inhalation of mists or vapours will result in respiratory irritation and possible harmful corrosive effects including lesions of the nasal septum. Pulmonary edema, pneumonitis, and emphysema.

Ingestion

Harmful if swallowed, ingestion of this product may cause nausea, vomiting abdominal pain and chemical burns to the mouth throat and stomach.

Skin

Skin contact will cause redness, itching, irritation, severe pain and chemical burns with resultant tissue destruction

Eye

Eye contact will cause stinging. Blurring, tearing, severe, pain, and possible permanent corneal damage.

4/16 FIRST AID MEASURES

Inhalation

Seek medical attention for all exposure emergencies. If inhaled, remove contaminated area. Apply artificial respiration if not breathing, seek immediate medical attention.

Ingestion

Do not induce vomiting, wash out mouth with water, and seek immediate medical assistance.

Skin

Wash affected area thoroughly with soap and water. Remove contaminated clothing and wash before reuse or discard. Seek medical attention.

Eye

If contact with the eye(s) occurs, wash with copious amounts of water holding eyelid(s) open. Take care not to rinse contaminated water in to non affected eye. Seek immediate medical advice.

First Aid Facilities Advice to Doctor

Eye Wash, Safety Shower and general washroom facilities.

Treat Symptomatically.

5/16 FIRE FIGHTING MEASURES

Extinguishing

Method Halon or Dry Chemical Extinguisher.

Specific

Hazards Unusual fire and explosion hazards: Hydrogen Gas and Sulfuric Acid Vapours are generated upon overcharge, Ventilate charging areas.

Hazardous

Combustion Under Fire Conditions this product may emit toxic and/or Irritating fumes.

Products

Flash Point Not Available.

Flammable

Limits UEL 74.2

Flammable

Limits LEL 4.0

6/16 ACCIDENTAL RELEASE MEASURES

If material is released or spilled, take the following actions:

- Wear full protective clothing and breathing apparatus.**
- Avoid any exposure.**
- Contain spilled material with inert non combustible material and collect in a suitable labeled container.**
- Seal all waste in a vapour tight labeled corrosion resistant container for eventual disposal.**
- If this material enters the waterways contact the Environmental Protection Authority or your local Waste Management Authority.**

7/16 HANDLING AND STORAGE

Handling

When handling and storing, keep away from flames during and immediately after charging, Avoid prolonged over charging. Lift with Battery carrying device and do not excessively tilt battery. It is essential that all who come into contact with this material maintain high standards of personal hygiene. IE: Washing Hands Prior to Eating, Drinking and Smoking.

Storage Store in a cool, dry well ventilated area away from heat and out of direct sunlight. Keep securely sealed and protected against physical damage. Inspect regularly for deficiencies such as damage or leaks.

8/16 EXPOSURE CONTROLS/PERSONAL PROTECTION

National Exposure

Name Standards	STEL (mgm3)	STEL (ppm)	TWA (mgm3)	TWA ppm
Lead /Lead Oxide	-	-	0.15	-
Sulfuric Acid	3	-	1	-
Antimony Alloy	-	-	0.5	-

Other Exposure Information

No exposure standards have been established for this material by the National Occupational Health and Safety Commission (NOHSC). However, exposure standards for ingredients as stated above.

As published by the National Occupational Health and Safety Commission (NOHSC):

TWA – The Time Weighted Average, airborne concentration over an eight hour working day, for a five day working week over an entire working life.

STEL – (Short Term Exposure Limit) – The average airborne concentration over a 15 minute period which should not be exceeded at any time during a normal eight hour workday.

According to current knowledge these concentrations should neither impair the health of, nor cause undue discomfort to nearly all workers.

Respiratory

If engineering controls are not effective in controlling airborne exposure the respiratory protective equipment such as half mask respirator with acid mist filters are recommended.

Reference should be made to Australian Standards AS/NZS 1715.

Selection, use and maintenance of respiratory devices and AS/NZS 1716, respiratory protective devices.

Eye Protection

Safety glasses with side shields, goggles or full- face shield as appropriate recommended, final choice of appropriate eye/face protection will vary according to individual circumstances I.E Methods of handling or engineering controls and according to risk assessments undertaken, Eye Protection should conform

with Australian/New Zealand standards AS/NZS 1337 – Eye protection for industrial applications.

Hand Protection	Wear Gloves of impervious material. Final choice of appropriate gloves will vary according to individual circumstances IE: Methods of handling or according to risk assessments undertaken, reference should be made to AS/NZS 2161.1 Occupational Protective Gloves –selection use and maintenance.
Body Protection	Wear protective overalls and chemical resistant apron where clothing is likely to be contaminated.
Eng. Controls	Local exhaust ventilation preferred. Mechanical acceptable at 1 to 4 changes/ per/ hour.
Biological Limit Values	No Biological Limits Allocated.

9/16 PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear Liquid
Odour	Pungent Odour (Sharp Penetrating Odour)
Melting Point	Not Available
Boiling Point	95 ⁰ C
Solubility in Water	100%
Specific Gravity (H2O=1)	Not Available
Vapour Pressure	Not Available
Vapour Density (Air=1)	Less than 1
Evaporation Rate	-1
Volatile Component	10-30%
Flash Point	Not Available
Flammable Limits LEL	4.0
Flammable Limits UEL	74.2

10/16 STABILITY AND REACTIVITY

Stability	U-3, F-0, S-2 R-W Unstable
Hazardous Polymerization	Will not occur
Materials to Avoid	Water
Hazardous Decomposition Products	Not Available
Reaction	Contact with water may cause electric shock and reaction.
Conditions to Avoid	Avoid overcharging and smoking in the vicinity of charging batteries, Avoid sparks and/or poor ventilation.

11/16 TOXICOLOGICAL INFORMATION

Toxicology Information	No toxicological data available for this product.
Inhalation	Harmful via inhalation, Inhalation of mists or vapours will result in respiratory irritation and possible harmful corrosive effects including lesions of the nasal septum, Pulmonary edema, pneumonitis and emphysema.
Ingestion	Harmful if swallowed, ingestion of this product may cause nausea, vomiting, abdominal pain and chemical burns to the mouth throat and stomach.
Skin	Skin contact will cause stinging, blurring. Tearing, severe pain and chemical burns with resultant tissue destruction.
Eye	Eye contact will cause stinging, blurring, tearing, severe pain and possible permanent corneal damage.
Chronic effects	Danger of cumulative effects.
Reproductive Toxicity	According to NOHSC this product is a category 1 reproductive hazard may cause harm to the unborn child, possible risk of impaired fertility.

12/16 ECOLOGICAL INFORMATION

Environment Protection	Do not allow to enter waterways.
Mobility	Not available.
Persistence	
Degradability	Not available.

Ecotoxicity No Ecological data available.

13/16 DISPOSAL CONSIDERATIONS

Dispose of waste according to Federal, EPA, State and Local regulations.

14/16 TRANSPORT INFORMATION

This material is classified as a Class 8 (Corrosive) dangerous good according to the Australian code for the transport of dangerous goods by road and rail. Dangerous goods of Class 8 (corrosive) are incompatible in a placard load with any of the following:

- Class 1 Explosive
- Class 4.3 Dangerous when wet substance
- Class 5.1 Oxidising Agent
- Class 5.2 Organic Peroxide
- Class 6 Toxic and Infectious substances, if the Class 6 dangerous goods are Cyanides and the Class 8 dangerous goods are acids
- Class 7 Radioactive substance and are incompatible with food and food packaging in any quantity

U.N. Number 2794
Proper Shipping Name Batteries, wet, filled with acid
DG Class 8
Packaging Method #
Packing Group III
EPG Number 8A1
IERG Number 37

15/16 REGULATORY INFORMATION

Risk PhraseMaterial Safety Data Sheet - Gladiator

- R33 Danger of cumulative effects
- R35 Causes severe burns.
- R62 Possible risk of impaired fertility.
- R61(1) May cause harm to unborn child.
- R20/22 Harmful by inhalation and if swallowed.

Safety Phrase S23 Do not breathe gas/fumes/vapour/spray.
S27 take off immediately all contaminated clothing.
S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

Poisons
Schedule Not Scheduled
Hazard
Category Toxic Corrosive

16/16	OTHER INFORMATION
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User Codes
SDS History MSDS Reviewed; October 2009

Poisons
Schedule Not Scheduled
Hazard
Category Toxic Corrosive
Gladiator Part Numbers
27-DC
31-DC
S-185
S-250
S-305
S-350
GC-105
GC-125
GC-145
GC-870