MATERIAL SAFETY DATA SHEET

EFFECTIVE JANUARY 2017

SECTION I: Identification of the substance

Product name: Valve Regulated Lead Acid, Absorbed Glass Mat Technology.
Trade name: Sealed Lead Acid Battery

European importer: Wetac Motive Power b.v.
Address: Galvanistraat 117
6716 AE Ede, Netherlands
E-mail: info@wetac.nl
Tel: 00 31 (0)318-696192
Fax: 00 31 (0)318-696197

Responsible persons: QA Representative, Managing Director
Chemical Name: Lead /acid storage battery.
Chemical Family: Toxic and Corrosive Material.
Formula: Lead/acid.

SECTION II: Composition/Ingredient Data

Hazerdous Components Chemical Identity	CAS NUMBER	OSHA PEL	ACGIH TLV	Percent By Weight	EC Number	Average
Lead	7439-92-1	50 µg/m³	50 µg/m³	45-55%	231-100-4	50%
Sulfuric Acid	7664-93-9	100 µg/m³	1.00 mg/m³	19-25%	231-639-5	22%
Lead Oxide	1309-60-0	50 µg/m³	500 µg/m³	19-23%	215-174-5	21%

	Risk Phrases	Safety Phrases
Sulfuric Acid	R61, 62,20/22, 33	S1/2, S26, S30, S45
Lead Oxide	R35	None

SECTION III: Hazards Identification

Odour: Not applicable
Appearance: Valve Regulated Lead Acid, Absorbed Glass Mat Battery.
Weight High Density/ Good Lifting technique required

Hazards refer to internal component, i.e. lead and sulphuric acid
Contact with eyes: causes irritation
contact with skin: may cause dermatitis
Inhalation: may cause irritation
Ingestion: can cause damage to the kidneys

SECTION IV: First Aid Measures

Contact with skin: Remove contaminated clothing immediatly and drench affected skin with plenty of water, then wash with soap and water.
Contact with eyes: If substance has got into eyes, immediatly wash out with plenty of water for at least 15 minutes.

Seek immediate medical attention.

Ingestion: Do not induce vomiting

Seek immediate medical attention.

Inhalation: Remove patient to fresh air
Seek medical attention if irritation persists

SECTION V: Fire-Fighting Measures

Auto-ignition point (Hydrogen) 580°C at 760 mm Hg
Wear positive-pressure breathing apparatus
In case of fire use Foam, carbon dioxide or dry agent (S43)
Flash point Hydrogen 259°C
Flammable Limits in air, lower 4.1%
% by 3/4 vol. (Hydrogen)

Fire/explosion; Hydrogen and oxygen gases are produced in cells during normal battery operation. (Hydrogen is flammable and oxygen supports combustion)

SECTION VI, ACCIDENTAL RELEASE MEASURES

Immediate Actions: Shut of all ignition sources
Clean up Actions: 1) Neutralise with soda ash,
2) Place in appropriate container,
3) Ventilate area,
4) Do not empty into drains (S29),

SECTION VII, HANDLING AND STORAGE

Under normal conditions of battery use, internal components will not present a health hazard.

Handling: Keep away from heat and sources of ignition, wash hands throughly after use, avoid sparks, avoid contact with metel jewellery and watches etc.
Do not remove Vent Caps
Do not double stack industrial batteries, it may cause damage

Storage: Keep in cool and dry&protect from heat
Store lead acid batteries with adequate ventilation
Room ventilation is required for batteries utilised for standby power
Never re-charge batteries in unventilated, enclosed space

SECTION VIII, EXPOSURE CONTROLS / PERSONAL PROTECTION

Personal protection: Wear safety shoes with toe protector.
Where internal components are liberated use rubber or neoprene boots.
Wear goggles/safety glasses giving complete eye protection.
Respiratory protection may be required under exceptional circumstances when excessive air contamination exists.
Wear PVC mitts, gloves or gauntlets.

Exposure Limits: Lead OES / LTEL - ppm 0.15 mg/m³
Lead Dioxide OES / LTEL - pmm 0.15 mg/m³

SECTION IX, Physical and Chemical Properties

Odour:	Not applicable
Appearance:	Valve Regulated Lead Acid, Gelled Electrolyte Battery.
State under normal temp:	Solid
Flash point (Hydrogen):	259° C

Internal components

pH - (Sulphuric acid):	1.3
Boiling point: (at 760 mm/Hg)	Battery Electrolyte 110°C, lead 1755°C
Melting point:	Lead 327.4°C
Vapour pressure:	11.7
Vapour density:	Battery Electrolyte 3.4, (air=1)
Specific gravity:	Battery Electrolyte 1.3 g/cm3 (water = 1)
Auto-ignition point:	580° deg C AT 760MM/Hg.
Water solubility:	Battery Electrolyte is 100% soluble in water

SECTION X, STABILITY AND REACTIVITY

VRLA Batteries are considered stable at normal conditions
Keep away from heat and sources of ignition
Incompatible with reducing agents, incompatible with organic agents
Decomposition products may include hydrogen
Decomposition products may include sulphur oxides

SECTION XI, Toxicological Information

Danger of cumulative effects. (R33)
May cause severe irritation
May cause gastro-intestinal disturbances.
Can cause damage to the mucous membranes.

SECTION XII, Ecological Information

Ecotoxicology - no information available.

SECTION XIII, Disposal Considerations

Classification:	This material and/or its container must be disposed of as hazardous waste.
Disposal considerations:	Do not discharge into drains or the environment, dispose to an authorised waste collection point.

SECTION XIV, Transport Information

We hereby certify that the MOVE range of Maintenance Free Rechargeable, Sealed Lead Acid, batteries conform the UN2800 classification as "Batteries, Non-Spillable and Electric storage" have passed the Vibration and Pressure Differential Test described in DOT [49 CFR 173.159 (d) and IATA/ICAO Special Provision A67].

MOVE Batteries having met the related conditions are EXEMPT from hazerdous goods regulations for the purpose of transportation by DOT, and IATA/ICAO, and therefore are unrestricted for transportation by any means.

SECTION XV, Regulatory Information

Classification and labelling Not Classified as hazardous for supply.

SECTION XVI, Other Information

Under normal conditions of battery use, internal components will not present a health hazard. The information contained in this Safety Data Sheet provided for battery electrolyte (acid) and lead, for exposure that may occur during battery production or container breakage or under extreme heat conditions such as fire. Tested as per IMDG Amendment. 34-08, special provision 238 "a" and "b" .

This Safety Data Sheet and the information therein does not constitute the user's own assessment of work place risk as required by other Health&Safety legislation.