

Material Safety Data Sheet - UN2800 Sealed Lead Acid (non-DG)

Series No: 9990920160120-002

ACCORDING TO ISO 11014-2009 FORMAT

Version: 2.0

Date Issued: 01-Sept-2024

SECTION 1- CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Sealed Lead Acid Battery, Valve Regulated Lead Acid Battery.

Product Range\Group Name:

AVON ASB Range – In its entirety

Name of Company\Brand:

BBL Batteries \ Avon Battery

Address: 3 St Philips Trade Centre, Albert Road, St Philips, Bristol, BS2 0YB

E-mail: support@avonbattery.co.uk

SECTION 2- HAZARDS IDENTIFICATION

Hazards identification :

The battery has passed the vibration test, pressure differential test and leakage test at 55 °C according to Recommendations on the TRANSPORT OF DANGEROUS GOODS Model SPECIAL PROVISION 238. It is not restricted to IATA DGR according to special provision A67 and is not restricted to IMDG CODE according to special provision 238.

Lead/Lead oxides: Under normal conditions of use, lead dust, vapours, and fumes are not generated. Hazardous exposure may occur when product is overheated, oxidized or otherwise processed or damaged to create dust, vapor or fumes.

Inhalation: Lead dust or fumes may cause irritation of upper respiratory tract or lungs.

Skin Contact: Lead Compounds are not readily absorbed through the skin.

Eye Contact: Lead Compounds may cause eye irritation

Sulfuric acid: Under normal conditions of use, it will not be affected. When the battery is opened and leaks, dangerous contact may occur.

Inhalation: Acid mist may irritate the upper respiratory tract or lungs.

Skin contact: Sulfuric acid can corrode the skin.

Eye contact: Sulfuric acid can cause eye irritation.

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SECTION 3- COMPOSITION / INFORMATION ON INGREDIENTS

Substance/Mixture	Percent	CAS No.
Lead	60%	7439-92-1
Lead Dioxide	25%	1309-60-0
Sulphuric Acid	15%	7664-93-9

SECTION 4 - FIRST AID MEASURES

Emergency and first aid procedures if exposed to internal components:

Inhalation: Evacuate and ensure you are breathing fresh air. Give oxygen or artificial respiration if needed. Get immediate medical attention. Eye Contact: Flush with plenty of water for at least 15 minutes, hold eyelids open. Get immediate medical attention.

Skin Contact: Remove contaminated clothing and flush affected areas with plenty of water for at least 15 minutes and obtain medical attention if necessary.

Ingestion: Do not induce vomiting. Dilute by giving large quantities of water. If available give several glasses of milk. Do not give anything by mouth to an unconscious person. Give CPR if breathing has stopped. Get immediate medical attention.

SECTION 5 - FIRE FIGHTING MEASURES

Flash Point: Not Applicable

Extinguishing Media:

Use water, foam or dry powder, as appropriate to extinguish fire.

Fire Fighting Procedures:

In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full-face piece operated in the pressure demand or other positive pressure mode. Fight fire from the maximum distance. Evacuate area.

Specific Hazards:

When involved in a fire, the battery may decompose and produce irritating fumes containing metal oxides. And plastic may create toxic vapours, gases or fumes during hot operation.

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SECTION 6 - ACCIDENTAL RELEASE MEASURES

Personal Precautions:

Wear appropriate personal protective equipment as specified in Section 8.

Environmental Precautions:

This material may be non-hazardous in ordinary use and may be discarded in accordance with applicable governmental regulations and take order with the demands of the environmental protection section.

Methods of Clean up:

Spill and leaks are unlikely because cells are contained in a sealed case. In the event of a battery rupture, prevent skin contact and collect all released material in a plastic lined metal container to prevent spill from entering drinking water supplies or streams. Any product recovery or disposal must comply with local, state, federal, international or country Specific regulations.

SECTION 7 - HANDLING AND STORAGE

Handling: The battery can be used in temperatures of -20 to 40 degrees Celsius (-4 to 104 Fahrenheit). All connections should be connected accurately to avoid the possibility of a short circuit. Do not let oil and water or other contamination drop on the top of battery while working. Be sure to have logical discharge electricity and terminate voltage setting while working. Use only in the well-ventilated areas. Keep away from heat, sparks and open flames. Make available in the work area emergency shower and eyes wash. Avoid contact with skin and eyes. Use of full-length sleeves and pants; boots or work shoes are recommended for manufacturing operations.

Storage: Store in cool, dry, well-ventilated area and away from combustible materials, sources of ignition, excessive heat and direct sunlight. Do not store in sealed areas.

Warning: Not for use on children under 5 years old.

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SECTION 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTION

Respiratory Protection (Specify Type):

Provide general dilution ventilation to keep exposure to vapours as low as possible.

Ventilation:

Local Exhaust: Good general ventilation should be used. Use local exhaust ventilation as needed so that exposure limits are met.

Mechanical (General): Provide general ventilation in processing and storage areas so that exposure limits are met.

Engineering Controls: General room ventilation is sufficient during normal use and handling. Do not install these batteries in sealed, unventilated areas.

Personal Protective Equipment (In the handling the battery):

Hand Protection: Rubber or neoprene gloves.

Skin and Body Protection: Wear acid resistant boots, apron or clothing. Use decontamination facilities (eye bath, safety shower, washing facilities).

Protective Gloves: Rubber or neoprene gloves.

Eye Protection: Safety glasses with side shields and avoid eye contact.

Other Protective Clothing or Equipment: Protective clothing is required where repeated or prolonged skin contact may occur.

Work/Hygienic Practices: Remove jewellery, rings, watches and any other metallic objects while working on batteries. All tools should insulate to avoid the possibility of shorting connections. DO NOT lay tools on top of battery. Be sure to electricity from tools and individual person by touching a grounded surface in the vicinity of the batteries but are heavy. Serious injury can result from improper lifting or installation. DO NOT lift, carry, install or remove pulling the terminal posts for safety reasons and because terminal posts and post seals may be damaged. DO KEEP a fire extinguisher and emergency communications the work area.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

General Physical Form: The battery is solid.

Odour: The battery is odourless.

Solubility in Water: Lead, lead oxide and lead sulphate are insoluble in water.

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SECTION 10 - STABILITY AND REACTIVITY

Stability: Stable under normal conditions.

Conditions to Avoid: Direct sunlight, overheat, sparks and other sources of ignition.

Incompatibility: Incompatible with strong oxidizing agents, potassium, sodium.

Hazardous Polymerization: Hazardous polymerization will not occur.

SECTION 11 - TOXICOLOGICAL INFORMATION

Lead/Lead Oxides: Toxic by ingestion or inhalation. Chronic poison.

Sulfuric Acid: Contact may cause severe irritation to eyes and skin, causes burns. Potential Chronic Health Effects:

Be slightly hazardous in case of skin contact (permeate).

CARCINOGENIC EFFECTS: Lead/Lead Oxides: Classified A3 (Proven for animal.) by ACGIH, 2B (Possible for human.) by IARC. Sulfuric Acid: G1 by IARC. MUTAGENIC EFFECTS: Not available.

TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available.

Lead may be toxic to blood, kidneys, central nervous system (CNS).

Repeated or prolonged exposure to the substance can produce target organs damage.

SECTION 12 - ECOLOGICAL INFORMATION

Lead/Lead Oxides:

Eco-toxicity: Not available. BOD5 and COD: Not available.

Products of Biodegradation: Possibly hazardous short-term degradation products are not likely. However, long-term degradation products may arise.

Toxicity of the Products of Biodegradation: The products of degradation are less toxic than the product itself. Special Remarks on the Products of Biodegradation: Not available.

Sulfuric Acid:

Harmful to the environment, can cause pollution to water bodies and soil. Biodegradability and Non-biodegradability : No available.

SECTION 13 - DISPOSAL CONSIDERATIONS

Waste Disposal Method:

Spent batteries must be treated as hazardous waste and disposed of according to local state, and federal regulations. A copy of this material safety data must be supplied to any scrap dealer or secondary smelter with battery. Put into dustbin, otherwise incineration, otherwise licensed landfill, or safe disposal as required by local, state, federal, international or country specific regulations.

Empty Container Warnings:

Empty containers may contain product residue, follow MSDS and label warnings even after they have been emptied.

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SECTION 14 - TRANSPORT INFORMATION

GROUND:

Our non-spillable lead acid batteries meet all of the following requirements found at DOT 49 CFR 173.159(d)

When offered for transport, the batteries are protected against short circuits and securely packaged as required by DOT 49 CFR 173.159(d) (1):

The batteries and outer packaging are marked with the words "NONSPILLABLE" or "NONSPILLABLE BATTERY" as required by DOT 49 CFR 173.159(d) (2):

The batteries comply with the vibration and pressure differential tests found in DOT 49 CFR 173.159(d) (3).

AIRCRAFT-ICAO-IATA:

Our non-spillable lead acid batteries also are excepted from the international hazardous materials (also known as dangerous goods) regulations since they comply with the following requirements:

According to the requirements of Packing Instruction 806 in IATA (International Air Transport Association) and ICAO (International Civil Aviation Organization), there should not be any electrolyte leakage after the vibration and pressure differential tests.

And Special Provision A67 states non-spillable batteries are not subject to these Instructions (Packing Instruction 806) if at the temperature of 55 C (131 F), the electrolyte will not flow from a ruptured or cracked case and there is no free liquid flow and if, when packaged for transport the batteries are protected from short circuit and unintentional activation.

VESSEL IMO-IMDG:

Our non-spillable batteries are excepted from the international hazardous materials (also known as dangerous goods) regulations since they conform to the requirements of IMDG Code Special Provision 238.1 and 238.2, that is the batteries have passed the vibration and pressure differential performance tests, and at a temperature of 55 C, the electrolyte will not flow from a ruptured or cracked case and there is no free liquid flow and if, when package for transport, the terminal are protected from short circuit.

Additional Information:

- Each battery and the outer packaging must be plainly and durably marked Non-spillable or Non-spillable Battery
- Transport requires proper packaging and paperwork, including the nature and quantity of goods, applicable origin/destination-/customs points as shipped.

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SECTION 15 - REGULATORY INFORMATION

Dangerous Goods Regulations

Recommendations on the Transport of Dangerous Goods-Model Regulations (23rd revised edition)

International Air Transport Association (IATA)

International Maritime Dangerous Goods (IMDG Code 2024 Edition Amdt42-24)

Technical Instructions for the Safe Transport of Dangerous Goods

Classification and code of dangerous goods (GB 6944-2012)

2012 OSHA Hazard Communication Standard (29 CFR 1910.1200) 2012

Toxic Substance Control Act (TSCA)

Code of Federal Regulations

In accordance with all Federal, State and local laws

EU regulation: According to the EU2013 / 56 / EC battery directive, VRLA batteries should carry a crossed wheeled bin symbol with an ISO recycling symbol.



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EU 2023/1542 The Batteries and Waste Batteries Regulation

EN 60896-21:2004 Stationary lead-acid batteries – Part 21: Valve regulated types – Methods of test

EN 60896-22:2004 Stationary lead-acid batteries – Part 22: Valve regulated types – Requirements



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SECTION 16 - OTHER INFORMATION

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. Guangdong Huesent Testing & Inspection Technology Co., Ltd. shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale. License granted to make unlimited paper copies for internal use only.