

Battery pack containing sealed lead acid batteries PRODUCT SAFETY DATASHEET

Version: 3.2

Review date: January 28, 2025

SECTION 1: PRODUCT IDENTIFICATION

1.1 Product Identifier

GHS product identifier:	Battery pack containing sealed lead acid batteries
Other Names:	Battery pack or accumulator pack with Valve Regulated Lead Acid Battery - Wet, Non-Spillable
Model Numbers:	(APC)RBC(V)XXX(L)(-AAA) or SYBT(U)XXX(-AAA) (where XXX is 1 through 999 and APC, V, L, U, -AAA are optional and AAA is a two or three letter customer or country code) or YYYY(XXX)BP (where YYYY are a series of letters designating UPS product family (like SU, SY, SUA, SRC, SRT, SMX, SURT, UX, UXA, SC, SR1, SRV, SMT, SMV, SMC, SMRT, SUM, BC, BE, BG, BI, BK, BN, BP, BR, BV, BX, BZ, SX, FJ, DL series) and XXX is pack voltage (like 24, 48, 192))
Product Type:	Battery pack is a manufactured article consisting of a plastic and metal sealed case containing one or more sealed lead acid battery connected by wires. Solid.
Examples of products covered by this safety data sheet. 1. RBC2 2. RBC12 3. APCRBC123 4. APCRBC152 5. APCRBC140 6. SYBT2 7. APCRBCV201	

1.2 Identified uses.

Relevant identified use(s): Electric Storage Battery

Use(s) advised against: None Known.

1.3 Manufacturer

Supplier/Manufacturer:	Schneider Electric IT USA, Schneider Electric IT Corp., (formerly APC by Schneider Electric, APC Sales and Service Corp.)
Address:	70 Mechanic St Foxboro, MA 02035 United States
Telephone:	+1 800-788-2208 or +1 401-789-5735
E-mail:	http://nam-en.apc.com/app/ask
Website:	www.apc.com

1.4 Emergency telephone number (with hours of operation)

For all Service, Technical Support and Emergency Inquires.
 24-hour Emergency Contact: +1-813-248-0585 CHEMTEL MIS0002494

SECTION 2: Hazards identification

According to CLP No 1272/2008:

2.1 Classification of the substance or mixture:

Skin Corr.1A H314
Skin damage/irritation 1 H315
Eye damage/irritation 1 H318
Reproductive toxicity 1A,1B H360D
Repr.1A H360Fd
May harm breast fed children H362
STOT RE1 H372
Aquatic Acute 1 H400
Aquatic Chronic 1 H410

2.2 GHS label elements:



Hazard Statements

H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H318	Causes serious eye damage
H360D	May damage the unborn child
H360Fd	May damage fertility. Suspected of damaging the unborn child
H362	May cause harm to breast-fed children
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

Precautionary statements

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P260	Do not breathe mist/vapors/spray.
P264	Wash thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P281	Use personal protective equipment as required.
P273	Avoid release to the environment.
P304 + P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P310	Immediately call a POISON CENTER or doctor/physician.
P321	Specific treatment, see supplemental first aid information.
P363	Wash contaminated clothing before reuse.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P301 + P312	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician if you feel unwell.
P330	Rinse mouth.
P331	Do NOT induce vomiting.
P314	Get medical advice/attention if you feel unwell.
P308 + P313	IF exposed or concerned: Get medical advice/attention.
P391	Collect spillage.
P405	Store locked up.
P501	Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

2.3 Other hazards

The Battery presents no chemical hazards during the normal operation provided the recommendations for handling, storage, transport and usage are observed.

2.4 Other information

Acid batteries used in APC by Schneider Electric Replacement Battery Cartridges (RBCs) are contained within cartridges and are sealed, non-spillable design. Under normal use and handling, there is no contact with the internal components of the battery or the chemical hazards. Under normal use and handling, these products do not emit regulated or hazardous substances. Misuse of the product, such as overcharging, may result in a discharge of battery electrolyte. Classification provided are for the battery electrolyte and are only applicable in the event that the electrolyte is discharged.

SECTION 3: Composition/information on ingredients

3.1 Substances/Mixture: Mixture

The material does not meet the criteria of a substance in accordance with regulation (EC) No 1272/2008

Chemical Name	CAS Number	EC Number	Composition (%)	Classification
Lead	7439-92-1	231-100-4	55.9 – 63.4	Annex VI: Acute Tox. 4, H332; Acute Tox. 4, H302; Repr. 1A, H360df; STOT RE 2, H 373; Aquatic Acute 1, H400; Aquatic Chronic 1, H410
Sulfuric acid	7664-93-9	231-639-5	15.8 – 20.5	Annex VI, Table 3.2: Skin Corr. 1A; H314
1-Propene, homopolymer	9003-07-0	--	4.8 – 12.3	Not Classified
Amorphous/fused silica	60676-86-0	--	3.7 – 5.6	Not Classified
Polyvinyl Chloride	9002-86-2	--	2.6	Not Classified
Copper	7440-50-8	231-159-6	2.6	Self- Classified: Repr. 2, H361; Eye Irrit. 2, H319; STOT SE 3: Resp. Irrit., H335
Steel	--	--	0.4	Not Classified

Tin	7440-31-5	231-141-8	0.3	Self-Classified: STOT SE 3: Resp. Irrit., H335; STOT RE 2 (Lungs, Inhalation), H373; STOT RE 1 (CNS, Liver, Kidney), H372
Polycarbonate	27440-31-5	--	0.1	Not Classified

See Section 11 for Toxicological Information. See Section 16 for full text of H-statements and R-phrases.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

The following first aid measures are required only in case of exposure to interior battery components after damage of the external battery casing.

Undamaged, closed cells do not represent a danger to the health.

Inhalation	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Administer oxygen if breathing is difficult. Give artificial respiration if victim is not breathing. Do not use mouth-to-mouth method if victim inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.
Skin	IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash before reuse. If signs/symptoms develop, get medical attention.
Eye	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. If signs/symptoms develop, get medical attention.
Ingestion	Do NOT induce vomiting. If conscious, drink large quantities of milk or water. Follow with milk of magnesia, beaten egg, egg whites or vegetable oil. Get medical attention immediately.

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

Refer to Section 11 - Toxicological Information

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

Notes to Physician: All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

SECTION 5: Fire-fighting measures

5.1 Extinguishing media

Suitable Extinguishing Media	Dry chemical or CO2.
Unsuitable Extinguishing Media	Water should not be used unless from a safe distance due to vigorous and exothermic reaction which will result.

5.2 Special hazards arising from the substance or mixture.

Unusual Fire and Explosion Hazards	Hydrogen and oxygen gases are produced during normal battery operation and charging. These gases escape through the battery vents and may form an explosive atmosphere around the battery if ventilation is poor. Avoid open flame, sparks and other ignition sources in areas where batteries are used or stored.
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Hazardous Combustion Products and decomposition products	Carbon monoxide, Sulphur Dioxide, Sulphur Trioxide, Lead fume and vapour, toxic fumes from decomposition of battery case materials.
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5.3 Advice for firefighters

Fire fighters should wear complete protective clothing including self-contained breathing apparatus. Wear chemical protective clothing that is specifically recommended by the manufacturer. It may provide little or no thermal protection. Fire fighters to wear acid-resistant full protective clothing, including rubber footwear and self-contained breathing apparatus.

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SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal Precautions	Do not walk through spilled material. Wear appropriate personal protective equipment, avoid direct contact. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate enclosed areas. Do not get in eyes, on skin, or on clothing. Do not breathe dusts or mists.
Emergency Procedures	As an immediate precautionary measure, isolate spill or leak area for at least 50 meters (150 feet) in all directions. Keep unauthorized personnel away. Do not get water inside container.

6.2 Environmental precautions

Avoid run off to waterways and sewers.

6.3 Methods and material for containment and cleaning up

Containment/Clean-up Measures	Stop leak if you can do it without risk. If battery is leaking, place battery in a heavy-duty plastic bag. Contain spill by diking with soda ash, etc. Neutralize spill area with (soda ash or lime, dilute with acetic acid) Make certain mixture is neutral then collect residue and place in a drum or other suitable container.
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6.4 Reference to other sections

Refer to Section 8 - Exposure Controls/Personal Protection and Section 13 – Disposal Considerations

SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

7.1 Precautions for safe handling

Advice on safe handling

Handling: Use only in well-ventilated areas. Use caution when combining with water; DO NOT add water to corrosive liquid, ALWAYS add corrosive liquid to water while stirring to prevent release of heat, steam and fumes. Wear appropriate personal protective equipment, avoid direct contact. Do not get in eyes, on skin, or on clothing. Do not breathe mist, vapors, spray. Avoid direct conductive connection across positive and negative terminals to prevent short circuit. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco.

7.2 Conditions for safe storage, including any incompatibilities.

Requirements for storage rooms and vessels

Batteries should be kept in an upright position away from ignition sources. Stack batteries so as to prevent accidental contact between terminal and/or other damage to terminals or containers. Whenever feasible, store on shipping pallet or rack. Do not stack loaded pallets or racks on top of other batteries. Store in a cool/low temperature, well-ventilated place. Avoid storage in areas exposed to heat or solar buildup.

7.3 Specific end use(s)

Refer to EN IEC 62485-1, Safety requirements for secondary batteries and battery installations. General safety information

Refer to EN IEC 62485-2, Safety requirements for secondary batteries and battery installations. Stationary batteries.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Name	EU OEL	Notes
Lead (7439-92-1)	0.15 (a)	As Inhalable Aerosol
Sulphuric Acid (7664-93-9)	0.05 (b)	Thoracic fraction
Tin (7440-31-5)		Not established
Copper (7440-50-8)	0.1 (c)	Based on OEL's of Austria, Belgium, Denmark, France, Netherlands, Switzerland, & U.K.
Poly vinyl chloride (9002-86-2)	1 mg/m3	Based on Belgium Time-weighted average exposure limit 8 h

Additional advice on limit values

During normal charging and discharging there is no release of product.

DNELs/DMELs

No DNELs/DMELs available.

PNECs

No PNECs available.

8.2 Exposure controls

Engineering Measures/Controls: Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Personal Protective Equipment

Respiratory	Follow the European Standard EN 149. Use a European Standard EN 149 approved respirator. if exposure limits are exceeded or symptoms are experienced.
Eye/Face	Wear eye/face protection - Chemical splash goggles, or - Full-face shield with safety glasses.
Skin/Body	Acid resistant clothing with rubber/neoprene boots for major spill clean-up. Acid resistant gloves such as rubber, neoprene, vinyl coated, PVC.
Environmental Exposure Controls	Controls should be engineered to prevent release to the environment, including procedures to prevent spills, atmospheric release and release to waterways. Follow best practice for site management and disposal of waste.

SECTION 9: Physical and chemical properties

9.1 Information on Physical and Chemical Properties

	Lead	Lead dioxide	Lead sulfate	Dilute sulfuric acid
Appearances (physical state, form, color, etc.)	Silver white solid	Brown crystal or powder	White crystal	Colorless transparent liquid
Odor	No information.	No information.	No information.	Odorless (normal temperature)
Threshold of odor	No information.	No information.	No information.	No information.
pH	No information.	No information.	No information.	≤ 1
Melting point	327.4°C	888°C	1170°C	No information
Boiling point, initial boiling point and boiling range	1,749°C	1,480°C	No information	No information
Flash point	Nonflammable	Nonflammable	Nonflammable	Nonflammable
Flammability (solid, gas)	Nonflammable	Nonflammable	Nonflammable	Not applicable
Specific gravity(density)	11.35g/cm ³ (20°C)	9.53g/cm ³	6.2	Approx. 1.2~1.4
Solubility	Water: Insoluble.	Water: Insoluble.	Water: Hardly soluble.	Miscible in water. Soluble in alcohol.
Partition coefficient (n- octanol/water)	No information.	No information	No information	No information
Auto-ignition temperature	Nonflammable	Nonflammable	Nonflammable	Nonflammable
Decomposition temperature	No information.	290°C	1000°C	No information
Viscosity	No information.	No information.	No information.	No information.
Other Information	No information.	No information.	No information.	No information.

9.2 Other Information

No additional physical and chemical parameters noted.

SECTION 10: Stability and reactivity

10.1 Reactivity

Within the operational temperature range -20 to +50 °C the undamaged product is stable.

10.2 Chemical stability

Stable under normal temperatures and pressures

10.3 Possibility of hazardous reactions

No Data Available

10.4 Conditions to avoid.

Use only approved charging methods. Avoid overcharging. Avoid short-circuiting. Avoid sparks and other ignition sources. Do not open, break or melt the casing.

10.5 Incompatible materials

Strong oxidizing or reducing agents.

10.6 Hazardous decomposition products

Can emit highly toxic fumes when heated. Combustion can produce carbon dioxide and carbon monoxide. Will release an explosive hydrogen/oxygen gas mixture. Oxides of lead, lead and/or lead compounds may be released. Sulfuric acid may release sulfur dioxide and/or sulfur trioxide.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

This information does not apply to the undamaged Battery. It is of relevance if the battery is broken, and the components are released to the environment.

Target Organs: Nervous System, Blood, Liver, Kidney

Route(s) of entry/exposure: Inhalation, Skin, Eye, Ingestion

Potential Health Effects Inhalation

Acute (Immediate)	Lead - For industry, inhalation is much more important than is ingestion. Systemic effects include loss of appetite, anemia, malaise, insomnia, headache, irritability, muscle and joint pains, tremors, flaccid paralysis without anesthesia, hallucinations and distorted perceptions, muscle weakness, gastritis and liver changes. Major organ systems affected are the nervous system, blood system and kidneys. Experimental evidence suggests that blood levels of lead below 10 µg/dL can lower the IQ scores of children. Low levels of lead impair neurotransmission and immune system function and may increase systolic blood pressure. Reversible kidney damage can occur from acute exposure. Sulfuric Acid - Experimental poison by inhalation.
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Chronic (Delayed)	Lead - Chronic exposure can lead to irreversible vascular sclerosis, tubular cell atrophy, interstitial fibrosis, and glomerular sclerosis. Very heavy intoxication can sometimes be detected by formation of a dark line on the gum margins. Sulfuric acid - Repeated or prolonged inhalation of sulfuric acid mist can cause inflammation of the upper respiratory tract, leading to chronic bronchitis. Severe exposure may cause chemical pneumonitis. Erosion of tooth enamel due to strong acid fume exposure has been observed in industry. Workers exposed to low concentrations of the vapors gradually lose their sensitivity to its irritating action. Occupational exposures to strong-acid mists containing sulfuric acid have been associated with several respiratory tract cancers. However, there is no animal data supporting the carcinogenicity of sulfuric acid. Sulfuric acid has been found to be non-mutagenic, and in two studies of workers employed in lead acid battery manufacture, no association between sulfuric acid mist exposure and respiratory tract cancers was observed.
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Skin

Acute (Immediate)	Sulfuric Acid - Extremely irritating, corrosive, and toxic to tissue, resulting in rapid destruction of tissue, causing severe burns. If much skin is involved, exposure is accompanied by shock, collapse and symptoms similar to those seen in severe burns. Repeated contact with dilute solutions can cause dermatitis.
Chronic (Delayed)	No Data Available

Eye

Acute (Immediate)	Causes serious eye damage.
Chronic (Delayed)	No Data Available

Ingestion

Acute (Immediate)	Lead - Poison by ingestion in large dosages and with prolonged exposure leading to the same effects as seen in exposure by inhalation. Adults absorb 5-15% of ingested lead and retain less than 5%. Children absorb about 50% and retain about 30%. Sulfuric Acid - Moderately toxic by ingestion.
Chronic (Delayed)	No Data Available

Reproductive Effects	Lead - Severe toxicity can cause sterility, abortion, and neonatal mortality and morbidity. Experimental teratogen. Experimental reproductive effects. Pathological lesions have been found on male gonads. Sulfuric Acid - Experimental teratogen.
Carcinogenic Effects	Repeated and prolonged exposure may cause cancer.

Carcinogenic Effects			
	CAS	IARC	NTP
Sulfuric acid	7664-93-9	Group 1-Carcinogenic	Not Listed
Lead	7439-92-1	Group 2A-Probable Carcinogen	Reasonably Anticipated to be Human Carcinogen
Lead as Lead Compounds	NO DATA AVAILABLE	Not Listed	Reasonably Anticipated to be Human Carcinogen
Lead as Lead, inorganic compounds	NO DATA AVAILABLE	Group 2A-Probable Carcinogen	Not Listed

SECTION 12: Ecological information

12.1 Toxicity

This information does not apply to the undamaged Battery. It is of relevance if the battery is broken, and the components are released to the environment.

12.2 Persistence and degradability

No information available.

12.3 Bio accumulative potential

No information available.

12.4 Mobility in Soil

No information available.

12.5 Results of PBT and vPvB assessment

No information available

12.6 Other adverse effects

No information available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product waste	<ul style="list-style-type: none">Spent (used) VRLA Batteries are subject to the requirements of the Batteries Directive 2006/66/EC on batteries and accumulators and waste batteries and accumulators. Spent (used) VRLA Batteries MUST be sent for recycling through an authorized contractor at the end-of-life.The WEEE Directive 2002/96/EC (Waste Electrical and Electronic Equipment) applies. Spent (used) VRLA Batteries MUST be removed from electrical and electronic equipment at the end-of-life.
	<ul style="list-style-type: none">Metallic Lead and active materials (Lead Oxides) must be recycled. Disposal must be carried out in accordance with the European Hazardous Waste Directive 2008/98/EC <ul style="list-style-type: none">Battery electrolyte is dilute Sulphuric Acid, the strength of which depends on the state of charge of the batteries. It must be neutralized before disposal. See SECTION 6 for clean-up and disposal advice.
Packaging waste	Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

SECTION 14: Transport information

The non-spillable lead acid batteries used in these battery packs are:



- Certified by their manufacturers as capable of withstanding the IATA/ICAO Vibration and Pressure Differential Test and that at a temperature of 55 degrees Centigrade, the electrolyte will not flow from a ruptured or cracked case and there is no free liquid to flow. Schneider Electric only authorizes the use of batteries that meet these criteria. Applicable certifications and test reports are available upon request.
- Packaged in accordance with the requirements of ADR/RID special provision 598, IMDG special provision 238 and IATA-DGR special provision A67 when shipped inside a UPS or packaged in accordance with the requirements of ADR/RID special provision 598, IMDG special provision 238 and IATA-DGR special provision A67 when shipped inside a UPS or shipped in their original battery pack packaging. When they are shipped inside the UPS or in their original packaging, then they are:
 - o Secured in such a way that they cannot slip, fall or be damaged.
 - o When weighing greater than 2.5 kg, provided with carrying devices, unless they are suitably stacked, e.g., on pallets.
 - o Free of dangerous traces of alkalis or acids on the outside; and protected against short circuits.
 - o Outer packaging may be marked "NONSPILLABLE" or "NONSPILLABLE BATTERY." When not marked, the outer packaging needs to be marked with one of these two phrases.
 - o Shipment by air requires on Master Air Waybill the following endorsement in the "Nature and Quantity of Good" box: "Not Restricted as per Special Provision A67"

Please note that if the Battery Pack or UPS containing the Battery pack is not shipped in the original packaging or no longer meets any of the referenced requirements above, then the package must be shipped as follows:

	14.1 UN number	14.2 UN proper shipping name	14.3 Transport hazard class(es)	14.4 Packing group	14.5 Environmental hazards
DOT	UN2800	Batteries, Wet, Non-spillable	Hazard Class 8	Packing Group II	
TDG	UN2800	Batteries, Wet, Non-spillable	Hazard Class 8	Packing Group II	
IMO/IMDG	UN2800	Batteries, Wet, Non-spillable	Hazard Class 8	Packing Group II	
IATA/ICAO	UN2800	Batteries, Wet, Non-spillable	Hazard Class 8	Packing Group II	

SECTION 15: Regulatory information

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

	Crossed-out wheeled bin indicating "SEPARATE COLLECTION" for all batteries and accumulators. Not to be disposed of with general domestic, commercial or industrial waste. Ref: The Batteries Directive 2006/66/EC
Pb	The Pb symbol indicates the heavy metal content of the battery and enables the Lead-Acid battery to be sorted for recycling. Ref: The Batteries Directive 2006/66/EC.
	The International Recycling Symbol, required by law in many countries worldwide to facilitate the identification of secondary batteries and accumulators for recycling. Ref: IEC 61429: 1995, Marking of secondary cells and batteries with the International Recycling Symbol ISO 7000-1135.
EC Directives	Directive 2006/66/EC, on batteries and accumulators and waste batteries and accumulators Paragraph (Recital) 29 states:
	"Directive 2002/95/EC of the European Parliament and of the Council of 27 January 2003 on the restriction of the use of certain hazardous substances in electrical and electronic equipment does not apply to batteries and accumulators used in electrical and electronic equipment." REACH Candidate List (SVHC) Contains the following substances from the list of candidate substances of REACH: Lead (EC 231-100-4, CAS 7439-92-1)

15.2 Chemical Safety Assessment

Complete.

SECTION 16: Other information

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Relevant Phrases (code & full text)

H319 - Causes serious eye irritation

H332 - Harmful if inhaled.

H335 - May cause respiratory irritation.

H361 - Suspected of damaging fertility or the unborn child.

H372 - Causes damage to organs through prolonged or repeated exposure.

R36/37 - Irritating to eyes and respiratory system.

R38 - Irritating to skin.

R48/20 - Harmful: danger of serious damage to health by prolonged exposure through inhalation.

R63 - Possible risk of harm to the unborn child.

Note 1 -- GHS and OSHA requirements for SDSs: *Schneider Electric* is committed to providing customers with products that are fully compliant with all regulations, international protocols, and customer standards to which they are subject. This includes providing Safety Data Sheets (SDSs) when required by the Occupational and Safety and Health Administration (OSHA), Department of Transportation (DOT), the Environmental Protection Agency (EPA) and other regulatory authorities. Schneider Electric does not issue SDSs for products –except for battery cartridges – because they are defined as “articles” pursuant to the guidance of the U.S. Occupational Health & Safety Administration (OSHA). Specifically, OSHA provides in the definition of “article” in 29 CFR 1910.1200 and similar provisions within the Global Harmonized Standard:

An “article” means a manufactured item: (1) which is formed to a specific shape or design during manufacture (2) which has end use function(s) dependent in whole or in part upon its shape or design during end use; and (3) which does not release, or otherwise result in exposure to, a [hazardous chemical](#) under normal conditions of use. Any product which meets the definition of an “article,” would be exempt from the requirements of the Standard.

OSHA has indicated that batteries do not meet the standard of an “article” and that SDS must be provided for the replacement battery cartridges that are contained within APC products or purchased as replacement battery cartridges. Please note that the one MSDS covers all manufacturers typically provide a single MSDSs to cover each battery chemistries they supply. These MSDSs are applicable to the battery models that utilize the specific battery chemistry (e.g., lead-acid, lithium ion, NiMH).

Note 2 – Battery packs covered by this Safety Data Sheet can be shipped alone, contained within uninterruptible power supplies (UPSs) or battery cabinets. Schneider Electric does not issue Safety Data Sheets for uninterruptible power supplies (UPSs) or battery cabinets.

Notice to reader.

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.