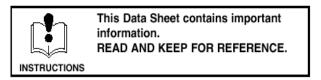
Safety Data Sheet





1.0 PRODUCT AND COMPANY IDENTIFICATION

Supplier:

Graco Inc. P.O. Box 1441 88 11th Ave. NE Minneapolis, MN 55440–1441

Contact: www.graco.com

Product Name: AGM 12V Battery

Part Number(s): 17N448, 24Z724, 25M226, 25M228, 25M315, 25M316

Use: Power Supply for ES1000 LineStriper

For Chemical Emergency
Spill, Leak, Fire, Exposure, or Accident
Call CHEMTREC Day or Night

Within USA and Canada: 1-800-424-9300 Outside USA and Canada: 1-703-741-5970

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

C.A.S.	PRINCIPAL HAZARDOUS COMPONENT(S) (chemical & common name(s)	Hazard Category	% Weight	ACGIH TLV - mg/m ³	OSHA PEL/TWA - mg/m³
7439-92-1	Lead/Lead Oxide (Litharge)/Lead Sulfate	Acute-Chronic	60-70	0.05 mg/m ³	0.05 mg/m ³
7440-70-2	Calcium (lead calcium alloy)	Reactive	<0.15	Not Established	Not Established
7440-31-5	Tin	Chronic	<1	2	2
7440-38-2	Arsenic (inorganic)	Acute-Chronic	<1	0.01	0.01
7664-93-9	Sulfuric Acid (Battery Electrolyte)	Reactive-Oxidizer	10-15	1.0	1.0
		Acute -Chronic			
Not applicable	Inert Ingredients	Not applicable	<6	Not Applicable	Not Applicable

Note: PEL's for Individual states may differ from OSHA's PEL's. Check with local authorities for the applicable state PEL's.

OSHA – Occupational Safety and Health Administration; ACGIH – American Conference of Governmental Industrial Hygienists; NIOSH – National Institute for Occupational Safety and Health.

Formula: Lead/Acid

COMMON NAME: (Used on label) Valve Regulated Lead-acid Battery

(Trade Name & Synonyms) VRB, VRLA, SLAB, Recombinant lead acid: RG, GPL, AGM, PVX or FD Series, D8565 series

Chemical Family: Toxic and Corrosive Material Mixture

Name: Battery, Storage, Lead Acid, Valve Regulated

SECTION 3 -- HAZARD IDENTIFICATION

Signs and Symptoms of	Acute Hazards	Do not open battery. Avoid contact with internal components. Internal components include lead and absorbed electrolyte. Electrolyte - Electrolyte is corrosive and contact may cause skin irritation and chemical burns. Electrolyte causes severe irritation and burns of eyes, nose and throat. Ingestion can cause severe burns and vomiting. Lead - Direct skin or eye contact may cause local irritation. Inhalation or ingestion of lead dust or fumes may result in headache, nausea, vomiting, abdominal spasms, faligue, sleep disturbances, weight loss, anemia and leg, arm and joint pain. Electrolyte - Repeated contact with electrolyte causes irritation and skin burns. Repeated exposure to mist may cause erosion of teeth, chronic eye irritation and/or chronic inflammation of the nose, throat and lungs. Lead - Prolonged exposure may cause central nervous system damage, gastrointestinal disturbances, anemia, irritability, metallic taste, insomnia, wrist-drop, kidney dysfunction and reproductive system disturbances. Pregnant women should be protected from excessive exposure to prevent lead from crossing the placental barrier and causing infant neurological disorders.				ectrolyte.	
Exposure	riazards						
	Subchronic and Chronic Health Effects						
	California Proposition 65 Warning: Battery posts, terminals, and related accessories contain lead and lead comp known to the State of California to cause cancer and reproductive harm, and during charging, strong inorganic acts sulfuric acid are evolved, a chemical Known to the State of California to cause cancer. Wash hands after handling					d mists containing	
Medical	Contact with inte		attery is broken or opened, the				
Conditions Generally	ederna, bronchitis, emphysema, dental erosion and tracheobronchitis.						
Aggravated by Exposure							
Routes of	Inhalation - YES	1		Eye Contact- YES	I		
Entry	Ingestion - YES						
Chemical(s) List Carcinogen	ed as Carcinogen o	or potential	Proposition 65 - YES	National Toxicology F YES	rogram -	I.A.R.C. Monographs - YES	O.S.H.A NO

SECTION 4 - FIRST AID MEASURES

Emergency and First Aid	Contact with internal components if battery is opened/broken.
Procedures	
1. Inhalation	Remove to fresh air and provide medical oxygen/CPR if needed. Obtain medical attention.
2. Eyes	Immediately flush with water for at least 15 minutes, hold eyelids open. Obtain medical attention.
_	
3. Skin	Flush contacted area with large amounts ofwater for at least 15 minutes. Remove contaminated clothing and obtain medical attention if
	necessary.
4. Ingestion	Do not induce vomiting. If conscious drink large amounts of water/milk. Obtain medical attention. Never give anything by mouth to an
	unconscious person.

SECTION 5 - FIREFIGHTING MEASURES

Flash Point-Not Applicable	Flammable Limits in Air % by Volume: Not Applicable	Extinguishing Media - Class ABC , CO ₂ , Halon	Auto-Ignition Temperature 675°F (polypropylene)
Special Fire Fighting Procedures	suitable for surrounding combustible materia		metal is present. Extinguish fire with agent event rupture. The acid mist and vapors generated and full protective equipment operated in positive-
Unusual Fire and ExplosionHazards	Sulfuric acid vapors are generated upon over sources of ignition near battery.	charge and polypropylene case failure. Use adequat	te ventilation. Avoid open flames/sparks/other

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Procedures for Cleanup. Avoid contact with any spilled material. Contain spill, isolate hazard area, and deny entry. Limit site access to emergency responders. Neutralize with sodium bicarbonate, soda ash, lime or other neutralizing agent. Place battery in suitable container for disposal. Dispose of contaminated material in accordance with applicable local, state, and federal regulations. Sodium bicarbonate, soda ash, sand, lime or other neutralizing agent should be kept on-site for spill remediation.

Personal Precautions: Acid resistant aprons, boots and protective clothing. ANSI approved safety glasses with side shields/face shield recommended.

Environmental Precautions: Lead and its compounds and sulfuric acid can pose a severe threat to the environment. Contamination of water, soil and air should be prevented

SECTION 7 - HANDLING AND STORAGE

Precautions to be Taken	Store away from reactive materials, open flames and sources of ignition as defined in Section 10 - Stability and Reactivity Data. Store
in Handling and Storage	batteries in cool, dry, well-ventilated areas. Batteries should be stored under roof for protection against adverse weather conditions. Avoid
	damage to containers.
Other Precautions	GOOD PERSONAL HYGIENE AND WORK PRACTICES ARE MANDATORY. Refrain from eating, drinking or smoking in work areas.
	Thoroughly wash hands, face, neck and arms, before eating, drinking and smoking. Work clothes and equipment should remain in designated
	lead contaminated areas, and never taken home or laundered with personal clothing. Wash soiled clothing, work clothes and equipment
	before reuse.

SECTION 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTION

Respiratory Protection (Specify Type)	None required under normal conditions. Acid/gas NIOSH approved respirator is required when the PEL is exceeded or employee experiences respiratory irritation.			
Ventilation	Store and handle in dry ventilated Local When PEL is exceeded. Mechanical (General) Not Applicable			
Protective Gloves	Wear rubber or plastic acid resistant gloves. Eye Protection ANSI approved safety glasses with side shields/face shield recommended			
Other Protective Clothing or Equipment	Safety shower and eyewash.			

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point: Not Applicable Vapor Not App Pressure	licable Specific 1.250-1.320 Gravity	pH <2 Melting Point: >320°F (polypropylene)		
Percent Volatile Not Applicable By Volume	Vapor Hydrogen: 0.069 (Air =1) Density Electrolyte: 3.4 @I SIP (Air = 1)	Evaporation Not applicable Rate		
Solubility 100% soluble (electrolyte) In water	Reactivity in Water	Electrolyte - Water Reactive (1)		
Appearance and Odor: Battery: Co-polymer polypropylene, solid; may be contained within an outer casing of aluminum or steel. Lead: Gray, metallic, solid; brown/grey oxide Electrolyte: Odorless, liquid absorbed in glass mat material. No apparent odor.				

SECTION 10 - STABILITY AND REACTIVITY

Stability: Stable	Conditions to Avoid: Avoid overcharging and smoking. or sparks near battery surface. High temperatures-cases decompose at >320°F.
Incompatibility	Sparks, open flames, keep battery away from strong oxidizers.
(Materials to Avoid)	
Hazardous	Combustion can produce carbon dioxide and carbon monoxide.
Decomposition Products	
Hazardous	Hazardous Polymerization has not been reported.
Polymerization	

SECTION 11 - TOXICOLOGICAL INFORMATION

GENERAL: The primary routes of exposure to lead are ingestion or inhalation of dust and fumes

INHALATION/INGESTION: Exposure to lead and its compounds may cause headache, nausea, vomiting, abdominal spasms, fatigue, sleep disturbances, weight loss, anemia, and pain in the legs, arms and joints. Kidney damage, as well as anemia, can occur from acute exposure.

INHALATION/INGESTION: Prolonged exposure to lead and its compounds may produce many of the symptoms of short-term exposure and may also cause central nervous system damage, gastrointestinal disturbances, anemia, and wrist drop. Symptoms of central nervous system damage include fatigue, headaches, tremors, hypertension, hallucination, convulsions and delirium. Kidney dysfunction and possible injury has also been associated with chronic lead poisoning. Chronic over-exposure to lead has been implicated as a causative agent for the impairment of male and female reproductive capacity, but there is at present, no substantiation of the implication. Pregnant women should be protected from excessive exposure. Lead can cross the placental barrier and unborn children may suffer neurological damage or developmental problems due to excessive lead exposure in pregnant women

SECTION 12 - ECOLOGICAL INFORMATION

In most surface water and groundwater, lead forms compounds with anions such as hydroxides, carbonates, sulfates, and phosphates, and precipitates out of the wat column. Lead may occur as sorbed ions or surface coatings on sediment mineral particles or may be carried in colloidal particles in surface water. Most lead is strongly retained in soil, resulting in little mobility. Lead may be immobilized by ion exchange with hydrous oxides or clays or by chelation with humic or fulvic acids in the soil. Lead (dissolved phase) is bioaccumulated by plants and animals, both aquatic and terrestrial.

SECTION 13 - DISPOSAL CONSIDERATIONS

Lead-acid batteries are completely recyclable. Return whole scrap batteries to distributor, manufacturer or lead smelter for recycling. For information on returning batteries to Concorde Battery for recycling call 626-813-1234. For neutralized spills, place residue in acid-resistant containers with sorbent material, sand or earth and dispose of in accordance with local, state and federal regulations for acid and lead compounds. Contact local and/or state environmental officials regarding disposal information

SECTION 14 - TRANSPORT INFORMATION

All Vision AGM, CP, FM,CL series and CTA series are valve regulated lead acid (VRLA) batteries.

Vision's VRLA batteries have passed vibration, pressure differential and free flowing acid tests under CFR 49 173.159(d) and meet IATA Special Provisions A48 and A67. The batteries are securely packaged, protected from short circuits and labeled "Non-Spillable." Vision's VRLA batteries are exempt from DOT Hazardous Material Regulations and IATA Dangerous Goods Regulations.

Note: The shipper has the option of shipping the batteries Hazmat regulated under UN2800. Additional labeling and paperwork would be required. See CFR 49 and IATA Dangerous Goods Regulations for more information.

U.S. DOT PROPER SHIPPING NAME: Batteries, wet, non-spillable

U.S. DOT HAZARD CLASS: 8

U.S. DOT ID NUMBER: UN2800

U.S. DOT PACKING GROUP: III

U.S. DOT LABEL: CORROSIVE

Excepted from the requirements because batteries have passed the Vibration and Pressure Differential performance tests, and ruptured case test for Nonspillable

designation.

Ems # - F-A, S-B

IMO PROPER SHIPPING NAME: Batteries, wet, non-spillable

IMO U.N. NUMBER: UN 2800

IMO LABEL: CORROSIVE

IMO VESSEL STOWAGE: A

Lead-Acid Rechargeable Battery as per IMDG SP.238.And NON-DG Shipment

IATA PROPER SHIPPING NAME: Batteries, wet, non-spillable

IATA U.N. CLASS: 8

Excepted from the requirements because batteries have passed the vibration and pressure differential performance tests, and ruptured case test for nonspillable designation. And,

IATA U.N. NUMBER: UN 2800

IATA LABEL: CORROSIVE

packaged for transport, the terminals are protected from short circuit.

SECTION 15 - REGULATORY INFORMATION

U.S. HAZARDOUS UNDER HAZARD COMMUNICATION STANDARD:

ARSENIC - YES SULFURIC ACID - YES

INGREDIENTS LISTED ON TSCA INVENTORY:

CERCLA SECTION 304 HAZARDOUS SUBSTANCES:

LEAD - YES RO: N/A* ARSENIC - YES RQ: 1 POUND SULFURIC ACID - YES RQ: 1000 POUNDS

* RQ: REPORTING NOT REQUIRED WHEN DIAMETER OF THE PIECES OF SOLID METAL RELEASED IS EQUAL TO OR EXCEEDS 100 µm (micrometers).

YES

EPCRA SECTION 302 EXTREMELY HAZARDOUS SUBSTANCE: SULFURIC ACID - YES

EPCRA SECTION 313 TOXIC RELEASE INVENTORY: LEAD - CAS NO: 7439-92-1 ARSENIC - CAS NO: 7440-38-2 SULFURIC ACID - CAS NO: 7664-93-9

SECTION 16 - OTHER INFORMATION

THE INFORMATION ABOVE IS RELIEVED TO BE ACCURATE AND REPRESENTS THE BEST INFORMATION CURRENTLY AVAILABLE TO U.S. HOWEVER, VISION THE INFORMATION ABOVE IS BELIEVED TO BE ACCURATE AND REPRESENTS THE BEST INFORMATION CURRENTLY AVAILABLE TO US. HOWEVER, BATTERY MAKES NO WARRANTY OF MERCHANTABILITY OR ANY OTHER WARRANTY, EXPRESSED OR IMPLIED, WITH RESPECT TO SUCH INFORMATION, AND WE ASSUME NO LIABILITY RESULTING FROM ITS USE. USERS SHOULD MAKE THEIR OWN INVESTIGATIONS TO DETERMINE THE SUITABILITY OF THE INFORMATION FOR THEIR PARTICULAR PURPOSES. ALTHOUGH REASONABLE PRECAUTIONS HAVE BEEN TAKEN IN THE PREPARATION OF THE DATA CONTAINED HEREIN, IT IS OFFERED SOLELY FOR YOUR INFORMATION, CONSIDERATION AND INVESTIGATION. THIS MATERIAL SAFETY DATA SHEET PROVIDES QUIDELINES FOR THE SAFE HANDLING AND USE OF THIS PRODUCT; IT DOES NOT AND CANNOT ADVISE ON ALL POSSIBLE SITUATIONS, THEREFOR YOUR DESCRIPTION AND INVESTIGATION. THEREFORE, YOUR SPECIFIC USE OF THIS PRODUCT SHOULD BE EVALUATED TO DETERMINE IF ADDITIONAL PRECAUTIONS ARE REQUIRED.

The data/information contained herein has been reviewed and approved for general release on the basis that this document contains no export-controlled information.

Revision History: (Rev. A, 01/09/2017, New Release)

Prepared By	Graco, Inc.

This Material Safety Data Sheet and the information it contains is offered to you in good faith as accurate. We have reviewed any information contained in this data sheet which we have received from sources outside our company. We believe that information to be correct, but cannot guarantee its accuracy or completeness. Health and safety precautions in this Data Sheet may not be adequate for all individuals and/or situations. It is the users' obligation to evaluate and use this product safely and to comply with all applicable laws and regulations. No statement made in this data sheet shall be construed as a permission or recommendation for the use of any product in a manner that might infringe existing patents. No warranty is made, either express or implied.

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Graco reserves the right to make changes at any time without notice.

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