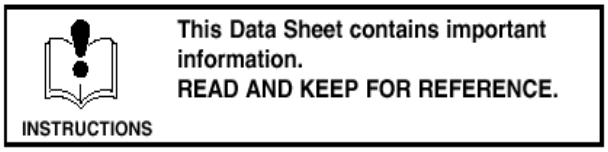
Material Safety Data Sheet

MSD074
Rev. B
Updated: 7/2022



1.0 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Lead Acid Battery
Chemical Name:
Manufacturer / Supplier:
Graco Inc.
P.O. Box 1441
60 11th Ave. NE
Minneapolis, MN 55440–1441
Part Number(s): 115753
Use: Used on Roadlazer and Roof Rigs

For Chemical Emergency
Spill, Leak, Fire, Exposure, or Accident
Call CHEMTREC Day or Night
Within USA/Canada: 1-800-424-9300
Outside USA/Canada: 1-703-741-5970

1. Composition / Ingredient Data

Hazardous Components Chemical Identity	CAS Number	OSHA PEL	ACGIH TLV	Percent By Weight	EC Number	Average
Lead	7439-92-1	50 µg/m^3	50 µg/m^3	45-55%	231-100-4	50%
Sulfuric Acid	7664-93-9	100 µg/m^3	100 mg/m^3	19-25%	231-639-5	22%
Lead Oxide	1309-60-0	50 µg/m^3	500 µg/m^3	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

2. Hazards Identification

Odor: Not applicable
Appearance: Article as described above
Weight High Density/ Good lifting technique required

Hazards refer to internal component, i.e. lead and sulfuric acid
Contact with eyes: Causes irritation
Contact with skin: May cause dermatitis
Inhalation: May cause irritation
Ingestion: Can cause damage to the kidneys

3. First Aid Measures

Contact with skin: Remove contaminated clothing immediately and drench affected skin with plenty water, then wash with soap and water.

Contact with eyes: If substance has got into eyes, immediately 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.

4. Fire-Fighting Measures

Auto-ignition point (Hydrogen) 580º 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 259º C
Flammable Limits in air, Lower 4.1%
% by 3/4 vol. (Hydrogen)

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

5. Accidental Release Measures

Immediate Actions:	Shut off all ignition sources
Clean Up Actions:	Neutralize with soda ash
	Place in appropriate container
	Ventilate area
	Do not empty into drains (S29)

6. 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 thoroughly after use
Avoid sparks
Avoid contact with metal jewelry 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 utilized for standby power generation.
Never re-charge batteries in an unventilated, enclosed space.

7. 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

8. Physical and Chemical Properties

Odor:	Not applicable.
Appearance:	Sealed Valve Regulated lead Acid Battery
State under normal temp:	Solid
Flash point (Hydrogen):	259º C

Internal components

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

9. 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 sulfur oxides.

10. Toxicological Information

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

11. Ecological Information

Ecotoxicology - no information available

12. **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 authorized waste collection point.

13. **Transport Information**

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

Haze Battery Co. having met the related conditions are EXEMPT from hazardous goods regulations for the purpose of transportation by DOT, and IATA/ICAO, and therefore are unrestricted for transportation by any means.

14. **Regulatory information**

Classification and labeling. Not classified as hazardous for supply

15. **Other Information**

Under normal conditions of battery use, internal components will not present a health hazard. The information contained in this Safety Data Sheet is 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 Amdt. 31-02, special provision 238 "a" and "b", Comply.

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.

Prepared By	Graco, Inc.

NOTES: NA = Not Applicable; NE = Not Established; UN = Unavailable

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