

Section 1 Product and company identification

Product name: GEL LEAD ACID BATTERY

Product type: GEL 6CNF100, GEL 6CNF150, GEL 6CNF200, OPzV 2V100AH, OPzV 2V300AH, OPzV 2V1000AH
GEL 2V100AH, GEL 2V200AH, GEL 2V400AH, GEL 2V1000AH, GEL 2V3000AH

Company name:

Address:

Post code: 214000

E-mail:

Fax: 0510-81813146

Emergency Phone: 0510-81813146

Section 2 Composition/information on ingredients

Pure chemical Mixture

Chemical ingredients:

Chemical ingredient	Molecular formula	Content (about)	CAS No.
Lead and lead oxide	Pb,PbO ₂	60-71	7439-92-1,1309-60-0
Calcium	Ca	0.2	7440-70-2
Tin	Sn	0.2	7440-31-5
Acid(GEL electrolyte)	H ₂ SO ₄	10-15	7664-93-9
ABS		5-10	9003-56-9
AGM separator		3-4	

Section 3 Hazards summarizing

Classification of Danger:(see section 14)

Invasion Route:eyes, skin contact, ingestion

Health Hazard: TheGEL lead-acid batteries are not hazardous when used according to the instructions of manufacturer under normal conditions.In case of abuse, there's risk of rupture,fire,heat,leakage of internal components,with could cause casualty loss.Contact with internal components may cause irritation or burns to eyes and skin.Abuses include but not limited to the following cases:charged for longtime,short circuited,put into fire, whacked with hard object,punctured with acute object,crushed,and broken.

Environmental Hazard: The internal electrolyte may cause adverse environmental impacts.

The Danger of Burning and Exploding: May occur fire or explosion in high temperature or short circuit.

Section 4 First-aid measures

The GEL lead-acid batteries are not hazardous with eye and skin contact under normal circumstance. In case of internal hazardous substance leaking, following measures should be taken if body parts contact with these substance:

AFTER SKIN CONTACT:

In case of contact, immediately wash skin with soap and copious amounts of water.

AFTER EYE CONTACT:

In case of contact, flush eyes with clean water for 15 minutes while lifting eyelids. Get prompt medical attention.

AFTER INHALATION:

If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

AFTER INGESTION:

If swallowed, wash out mouth with water provided person is conscious. Call a physician.

Section 5 Fire-fighting measures

Characteristics of Hazard: Toxic fumes; gases or vapors may evolve on burning.

Hazardous Combustion Products: CO, CO₂, acid, hydrogen and oxygen gas.

Fire-extinguishing Methods and Extinguishing Media: Carbon dioxide, dry chemical powder, or appropriate foam.

Attention in Fire-extinguishing: The Firemen should put on antigas masks and full fire-fighting suits.

Section 6 Accidental release measures

When leakage of batteries happens, liquid could be absorbed with sands, earth, or other inert substance, and the contaminated area should be ventilated meantime. Damaged batteries that are not hot or burning should be placed in a sealed plastic bag or container.

Section 7 Handling and storage

Handling: Don't handling the batteries in manner that allows terminals to short circuit.

Storage: Store and used far away from heat, sparks, open flame, or other heat ignition sources, and under room temperature (<30°C) in ventilating and dehumidifying environments.

Section 8 Exposure controls/personal protection

Maximum Allowable Concentration: No Standard available.

Engineering Controls: No engineering controls are required for handling batteries that have not been damaged.

Material Safety Data Sheet

Personal protective equipments for damaged batteries should include chemical resistant gloves and safety glasses.

Section 9 Physical and Chemical Properties

Not applicable

Section 10 Stability and reactivity

Stability: Stable under normal temperatures and pressures.

Incompatibility: Oxidizing agents.

Conditions to Avoid: Heat and open flame, short circuit, and water.

Hazardous polymerization: Will not occur.

Decomposition Products: CO, CO₂, acid, hydrogen and oxygen gas.

Section 11 Toxicological information

This product does not elicit toxicological properties during routine handling and use.

Section 12 Ecological information

Ecological toxicity: N/A

Biodegradability: N/A

Non-biodegradability: N/A

Other hazardous: The internal electrolyte may cause adverse environmental impacts.

Section 13 Disposal

Waste Treatment: Recycle or dispose of in accordance with government, state & local regulations.

Attention for Waste Treatment: Deserted batteries couldn't be treated as ordinary trash. Couldn't be thrown into fire or placed in high temperature. Couldn't be dissected, pierced, crushed or treated similarly. Best way is recycling.

Section 14 Transport information

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 Regulations (21st) SPECIAL PROVISION 238.

Material Safety Data Sheet

ICAO/IATA	IMDG CODE(2020 Edition)	RIDIADR(2023 Edition)
Not-regulated	Not-regulated	Not-regulated
Can be shipped by air in accordance with International Air Transport Association(IATA),DGR Packing Instructions(PI),PI872 appropriate and Special Provision A67.	International Maritime Organization(IMO)according to Special Provision 238.	RIDIADR according to Special Provision 238

Batteries must be securely packed to short-circuiting.

Section 15 Regulatory information

Regulatory information: Recommendations on the transport of dangerous goods-model regulations(15th revised), IATA dangerous goods regulations, International Maritime Dangerous Goods Code, U.S. Hazardous Material

Regulations

Section16 Other information

Reference: National standard of People's Republic of China. (GB16483-2008) Safety data for chemical products — Content and order of sections.

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