

MATERIAL SAFETY DATA SHEET
LEAD ACID BATTERY WET, FILLED WITH ACID
(US, CN, EU Version for International Trade)

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Products: Lead Acid Battery

Products Number:

MH21XU8201G, MH21XU8322G, MH21XU8405G, MH2LEB833, MH2LEB907,
MH2LEC138, MH2PLH838G, MH4ECX245G, MH5RRY944G, MH5RTA429G,
MH5RTA722G, MH5RTC223G

MANUFACTURER:

Noblelift Intelligent Equipment Company
528 Changzhou Road, Taihu Sub-District
Changxing, Zhejiang 313100 China
86-572-6210817

Emergency phone number: In case of emergency, contact:

Grainger Technical Support at 1-800-356-2501

In the case of Poisoning, contact ChemTrec:

1-800-424-9300 (Toll-free)

00 + 1-703-527-3887 (Non-US)

CHEMICAL FAMILY: This product is a wet lead acid storage battery. May also include gel/absorbed electrolyte type lead acid battery types.

PRODUCT USE: Industrial/Commercial electrical storage batteries.

This product is considered a Hazardous Substance, Preparation or Article that is regulated under US-OSHA; CAN-WHMIS; IOSH; ISO; UK-CHIP; or EU Directives (67/548/EEC-Dangerous Substance Labelling, 98/24/EC-Chemical Agents at Work, 99/45/EC-Preparation Labelling, 2001/58/EC-MSDS Content, and 1907/2006/EC-REACH), and an MSDS/SDS is required for this product considering that when used as recommended or intended, or under ordinary conditions, it may present a health and safety exposure or other hazard.

Additional Information

This product may not be compatible with all environments, such as those containing liquid solvents or extreme temperature or pressure. Please request information if considering use under extreme conditions or use beyond current product labelling.

SECTION 2: HAZARDS IDENTIFICATION

GHS Classification:

| Heath | Environmental | Physical |
|---|-----------------------|---|
| Acute Toxicity – Not listed (NL) Eye Corrosion – Corrosive* Skin Corrosion – Corrosive* Skin Sensitization – NL Mutagenicity/Carcinogenicity – NL Reproductive/Developmental – NL Target Organ Toxicity (Repeated) – NL | Aquatic Toxicity – NL | NFPA – Flammable gas, hydrogen (during charging) CN - NL EU - NL |


*as sulfuric acid

GHS Label: Lead Acid Battery, Wet

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| | |
|--|--|
| Symbols: C (Corrosive): |  Corrosion |
| Hazard Statements Contact with internal components may cause irritation of severe burns. Irritating to eyes, respiratory system, and skin. | Precautionary Statements Keep out of reach of children. Keep containers tightly closed. Avoid heat, sparks, and open flame while charging batteries. Avoid contact with internal acid. |

EMERGENCY OVERVIEW: May form explosive air/gas mixture during charging. Contact with internal components

may cause irritation or severe burns. Irritating to eyes, respiratory system, and skin. Prolonged inhalation or ingestion may result in serious damage to health. Pregnant women exposed to internal components may experience reproductive/developmental effects.

POTENTIAL HEALTH EFFECTS:

- EYES:** Direct contact of internal electrolyte liquid with eyes may cause severe burns or blindness.
- SKIN:** Direct contact of internal electrolyte liquid with the skin may cause skin irritation or damaging burns.
- INGESTION:** Swallowing this product may cause severe burns to the esophagus and digestive tract and harmful or fatal lead poisoning. Lead ingestion may cause nausea, vomiting, weight loss, abdominal spasms, fatigue, and pain in the arms, legs and joints.
- INHALATION:** Respiratory tract irritation and possible long-term effects.

ACUTE HEALTH HAZARDS:

Repeated or prolonged contact may cause mild skin irritation.

CHRONIC HEALTH HAZARDS:

Lead poisoning if persons are exposed to internal components of the batteries. Lead absorption may cause nausea, vomiting, weight loss, abdominal spasms, fatigue, and pain in the arms, legs and joints. Other effects may include central nervous system damage, kidney dysfunction, and potential reproductive effects. Chronic inhalation of sulfuric acid mist may increase the risk of lung cancer.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:

Respiratory and skin diseases may predispose the user to acute and chronic effects of sulfuric acid and/or lead. Children and pregnant women must be protected from lead exposure. Persons with kidney disease may be at increased risk of kidney failure.

Additional Information

No health effects are expected related to normal use of this product as sold.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

| Substance | Mixture Percent | CAS No. |
|------------------|-----------------|-----------|
| Lead/Lead oxides | 80-95% | 7439-92-1 |
| ABS Container | 5% | 9003-56-9 |
| Antimony | 1-5% | 7440-36-0 |

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Calcium

<0.5%

7440-70-2

Additional Information

These ingredients reflect components of the finished product related to performance of the product as distributed into commerce.

SECTION 4: FIRST AID MEASURES

Emergency and First Aid Procedures: Contact with internal components if battery is opened/broken.

Inhalation: Remove to 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 vapors, gases or fumes during hot operation.

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. Prevent spill from entering drinking water supplies or streams. Any product recovery or disposal must comply

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with local, state, federal, international or country specific regulations.

SECTION 7: HANDLING AND STORAGE

Handling: It can be use normally under the temperature of -20~40°C. All connections should be connected

accurately to avoid the possibility of shorting connections. Do not let oil and water or other contaminations 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 fulllength 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.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limit:

Lead, Lead Oxides (Chronic poison):

OSHA - PEL 0.05 mg/m³

ACGIH - TLV 0.05 mg/m³

NIOSH - REL<0.10mg/m³

Respiratory Protection (Specify Type):

Provide general dilution ventilation to keep exposure to vapors 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 possessing 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 jewelry, 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

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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.

Odor: The battery is odorless.

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

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.

Potential Chronic Health Effects:

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

CARCINOGENIC EFFECTS: Classified A3 (Proven for animal.) by ACGIH, 2B (Possible for human.) by IARC.

MUTAGENIC EFFECTS: Not available.

TERATOGENIC EFFECTS: Not available.

DEVELOPMENTAL TOXICITY: Not available.

The substance 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.

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.

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Empty Container Warnings:

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

SECTION 14: TRANSPORT INFORMATION

Identification and Proper Shipping Name:

Batteries, dry, electric storage.

DOT (Department of Transportation): Not regulated.

UN Number: Not regulated.

Identification Number: Not applicable.

IMO: Not regulated.

IATA/ICAO Class: Not regulated.

The regulations may change from time to time. Please consult the most recent version of the relevant regulations. Follow all regulations in your country.

SECTION 15: REGULATORY INFORMATION

Lead/Lead Oxides:

EC# 231-100-4 CAS# 7439-92-1

NFPA Hazard Rating: Flammability = 0 Health = 1 Reactivity = 0

This chemical substance is not classified in the Annex I of Directive 67/548/EEC and not listed in a priority list (as foreseen under Council Regulation (EEC) No 793/93 on the evaluation and control of the risks of existing substances.).

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. RJS Standard Testing & Certification Center 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.

MSDS/SDS PREPARATION INFORMATION:

DATE OF ISSUE: 28 Nov. 2014

This Material Safety Data Sheet is based upon information and sources available at the time of preparation or revision date. The information in the MSDS was obtained from sources which we believe are reliable, but are beyond our direct supervision or control. We make no Warranty of Merchantability, Fitness for any particular purpose or any other Warranty, Expressed or Implied, with respect to such information and we assume no liability resulting from its use. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. It is the obligation of each user of this product to determine the suitability of this product and comply with the requirements of all applicable laws regarding use and disposal of this product. For additional information concerning East Penn Manufacturing Co., Inc. products or questions concerning the

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content of this MSDS please contact your East Penn representative.

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