

GIGAPAN NICKEL METAL HYDRIDE BATTERY

Safety Data Sheet (SDS) OSHA HazCom Standard 29 CFR 1910.1200 GHD Rev 03



Section 1: Company and Product Identification

Product Name: **GIGAPAN EPIC PRO BATTERY**
(Brand: HNZ0711C by HNZ Power Solution Co.)
Product Code: 590-0021
Company: OmegaBrandess Distribution
626 Hanover Pike, Suite 102
Hampstead, MD 21074
PH: 410-374-3250 / FAX: 410-374-3184
www.OmegaBrandess.com
Emergency Response: HNZ: **+86-315-2861178**
Poison Control: **1-800-222-1222**

NOTE: *This Nickel Metal Hydride Battery is hermetically sealed. Under normal conditions of battery use, internal components will not present a health hazard. The following information is provided for battery electrolyte (acid) for exposure that may occur during container breakage or under extreme heat conditions such as fire. The battery referenced herein is an exempt article and is not subject to the OSHA Hazard Communication Standard requirement. This safety data sheet is provided as a service to our customers .*

Section 2: Hazards Identification

Hazards Identification	GHS05	GHS08	GHS07	BLANK
Hazard Pictograms:				
Signal Word:	Warning			
Hazard Category:	Corrosive to metals Cat 1 Serious eye damage/eye irritation Cat 1 Skin corrosion/irritation Cat 1 Carcinogenicity Cat 2 Specific target organ tox, single exp. Cat 2 Hazard to aquatic environment, chronic Cat 3			
Hazard Statements:	H290: May be corrosive to metals H318: Causes serious eye damage H314: Causes severe skin burns and eye damage H351: Suspected of causing cancer H371: May cause damage to organs H412: Harmful to aquatic life with long lasting effects			
Precautionary Statements:	P202: Do not handle until all safety precautions have been read and understood P273: Avoid release to the environment P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing - Seek Medical Attention P303+361+353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower - Seek Medical Attention P301+310: IF SWALLOWED: Immediately call a POISON CENTER or P301+330+331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting P304+340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If breathing becomes difficult, seek immediate medical attention P234: Keep only in original container			

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P501: Dispose of contents/container in accordance with local/national/international rules.

Hazards not otherwise classified:

Not applicable, none known.

Section 3: Composition / Information on Ingredients

Hazardous substance (name)	Hazard Category	CAS#	Weight %
Nickel Hydroxide	Carcinogenic Cat 3	12054-48-7	15-30%
Metal Hydride Alloy	Carcinogenic Cat 3	1309-48-4	15-40%
Potassium Hydroxide	Corrosive	1310-58-3	3-15%
Cobalt Hydroxide	Corrosive	21041-93-0	2.5-7%

Section 4: First Aid Measures

General Info: If seeking medical attention, provide SDS document to physician.

Notable Exposure: ***This information refers to the unlikely exposure to the inside symptoms: ingredients/components of the battery.***

If ingested: Immediate medical attention is required. Gently wipe or rinse the inside of the mouth with water. Give small amounts of water to drink. Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a physician or Poison Control Center immediately.

If inhaled: Immediate medical attention is required. Move to fresh air. If symptoms persist, call a physician.

Eye contact: Immediate medical attention is required. Remove contact lenses. Rinse immediately with plenty of water for at least 15 minutes. Seek medical attention immediately.

Skin contact: Immediate medical attention is required. Wash off immediately with plenty of water for at least 15 minutes. Remove and wash contaminated clothing before re-use. If skin irritation persists, call a physician.

Section 5: Fire Fighting Measures

General Info: Do not use water or water spray.

Extinguishing Method / Equipment: Carbon dioxide (CO₂), dry powder, sand. Firefighters should wear self-contained breathing apparatus (SCBA) and full protective equipment.

Hazardous Decomposition Info: Nickel and cobalt compounds

Section 6: Accidental Release Measures

Personal precautions, protective equipment and procedures: Use personal protective equipment. Avoid contact with skin and eyes. Prevent further leakage or spillage if safe to do so. Do not allow material to contaminate ground water system.

Cleanup Procedures: Pick up and transfer to properly labeled containers. Dispose of in accordance with local regulations.

Section 7: Handling and Storage

Safe Handling Precautions: Do not handle until all safety precautions have been read and understood. Avoid contact with eyes, skin, and clothing. Wear appropriate personal protective equipment. No special technical protective measures required. Do not obstruct safety vent by soldering or welding tabs on the positive top.

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Recommendations Keep in a cool, dry well ventilated place, preferably in the temperature range of +5 to +25°C at 65% (+-5%) relative humidity. Keep away from sources of ignition. Ensure battery terminals are protected during storage.

Incompatibilities: Nickel and cobalt compounds

Section 8: Exposure Control / Personal Protection

General / Engineering Controls: Ensure adequate ventilation, especially in confined areas.

Work Clothing: Not required under normal use. *The information below refers to exposure to the internal components.*

Eye/face protection: Wear safety goggles with side shields conforming to EN166

Skin Protection: Wear neoprene rubber gloves.

Respiratory Protection: Wear a positive pressure supplied-air respirator with full facepiece

Additional Information: Observe good chemical hygiene practices.

Section 9: Physical and Chemical Properties

State:	Sealed Unit	Melting Point:	NA	Freezing Point:	NA
Color:	NA	Boiling Point/Range:	NA	pH	NA
Sp Grav:	NA	Odor:	NA	Water Solubility:	NA
Evaporation rate:	NA	Flash Point:	NA	Part. Coeff (n-octanol/water)	NA
Upper Flam Limits:	NA	Lower Flam Limits:	NA	Vapor Pressure:	NA
VOC Content (lbs/gal):	NA	Viscosity:	NA	Autoignition Temp:	NA

Section 10: Stability and Reactivity

General: This product is stable and non-reactive under normal conditions of use. Product is not subject to hazardous polymerization.

Incompatible materials: Keep away from heat, open flame and sources of ignition. Avoid exposure to moisture.

Decomposition products: Nickel and cobalt compounds

Section 11: Toxicological Information

General Information: *The information below refers to exposure to the internal components.*

Toxicological Information (product): Causes sever burns. Risk of serious damage to eyes. Harmful by inhalation and if swallowed. Limited evidence of a carcinogenic defect.

Likely Routes of Exposure: Inhalation of vapors, dermal

Carcinogenicity or mutagenicity: There are suspected carcinogenic materials in this product

Sensitization: May cause sensitization by inhalation and skin contact

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Reproductive Suspected of causing genetic defects.

Toxicity:

Other Notes: Avoid repeated exposure.

Section 12: Ecological Information

General information: If used as directed, and if the integrity of the battery casing and security vent are maintained, the ingredients are not expected to pose a significant risk to the environment.

Aquatic toxicity: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Degradation / Mobility info: Not Applicable

Bioaccumulative potential: No data available on bioaccumulation.

Section 13: Disposal Information

Product disposal: Dispose of product in accordance with local, regional, and national regulations. Should not be released into the environment.

Container disposal: Empty containers should be taken to an approved waste handling site for recycling or disposal.

Other considerations: No further information. Never incinerate Ni-MH batteries. Never dispose Ni-MH batteries in a landfill. Recycle where available.

Section 14: Transport Information**

DOT: Not dangerous/hazardous goods in regulated quantities .

IMO/IMDG: **

IATA: **

Section 15: Regulatory Information**

TSCA: **

CERCLA RQ: **

SARA 311/312: **

SARA 313 **

California Prop 65 **

Substances:

Canadian DSL: **

WHMIS: **

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Section 16: Other Information

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*** Since other agencies regulate this information, OSHA does not require and will not be enforcing sections 12-15 (29 CFR 1910.1200(g)(2))*

All chemicals may pose unknown hazards and should be used and handled with caution. This Safety Data Sheet applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, **OmegaBrandess Distribution assumes no responsibility for the completeness or accuracy of the information contained herein. The information and recommendations in this safety data sheet are, to the best of our knowledge, accurate as of the date of issue. Nothing herein shall be deemed to create warranty, expressed or implied, and shall not establish a legally valid contractual relationship. It is the responsibility of the user to determine applicability of this information and the suitability of the material or product for any particular purpose.*