



Product Safety Data Sheet

according to OSHA HCS 2012, 1272/2008/EC (CLP), and UN GHS

Bolt Vacuum Nickel Metal Hydride Battery

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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Bolt Vacuum Nickel Metal Hydride Battery 1313 (12 Volt), 1316 and 315 Series (14.4 Volt)

1.2. Relevant identified uses of the substance or mixture and uses advised against

Household vacuuming

1.3. Details of the supplier of the substance or mixture

BISSELL Homecare, Inc.

PO Box 1888, Grand Rapids, MI 49501

(616) 453- 4451, www.BISSELL.com, SDS@BISSELL.com

1.4. Emergency telephone number

Prosar (Medical) 1 866-303-6951

Chemtrec (US) 1 800-424-9300 acct 2808

Chemtrec (Int'l) 1 703-527-3887

SECTION 2: Hazard identification

2.1. Classification of the mixture and 2.2. Label elements

Regulation	Classification	Pictogram	Signal word	Hazard and Safety Statements
CLP (EC) No 1272/2008	Not Applicable	Not Applicable	Not Applicable	Not Applicable
HCS 2012, UN GHS	Not Applicable	Not Applicable	Not Applicable	Not Applicable

2.3. Other hazards

Under normal conditions of use, the battery is hermetically sealed.

Ingestion: Swallowing a battery can be harmful. Contents of an open battery can cause serious chemical burns of mouth, esophagus, and gastrointestinal tract. Inhalation: Contents of an open battery can cause respiratory irritation.

Hypersensitivity to nickel can cause allergic pulmonary asthma. Skin Contact: Contents of an open battery can cause skin irritation and/or chemical burns. Nickel, nickel compounds, cobalt and cobalt compounds can cause skin sensitization and an allergic contact dermatitis. Eye Contact: Contents of an open battery can cause severe irritation and chemical burns. Note: Nickel, nickel compounds, cobalt and cobalt compounds are listed as possible carcinogens by the International Agency for Research on Cancer (IARC) or National Toxicology Program (NTP).

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Ingredient	Percent	Classification	EC Number/ CAS Number
Nickel	≤ 45	(CLP) Carc 2, H351; STOT RE 1, H372; Skin Sens 1, H317 (GHS) Carc 2, H351; STOT RE 1, H372; Skin Sens 1, H317	231-111-4 / 7440-02-0
Nickel dihydroxide	≤ 33	(CLP) Resp Sens 1, H334; Muta 2, H341; Carc 1A, H350i; Repr 1B, H360D; STOT RE 1, H372; Aqu Acute 1, H400; Aqu Chronic 1, H410; Acute Tox 4, H302; Acute Tox 4, H332; Skin Irrit 2, H315; Skin Sens 1, H317 (GHS) (CLP) Resp Sens 1, H334; Muta 2, H341; Carc 1A, H350i; Repr 1B, H360D; STOT RE 1, H372; Aqu Acute 1, H400; Aqu Chronic 1, H410; Acute Tox 4, H302; Acute Tox 4, H332; Skin Irrit 2, H315; Skin Sens 1, H317	235-008-5 / 12054-48-7
Potassium hydroxide	≤ 15	(CLP) Skin Corr 1A, H314; Acute Tox 4, H302 (GHS) Skin Corr 1A, H314; Acute Tox 4, H302	215-181-3 / 1310-58-3



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SECTION 3: Composition/information on ingredients, continued

3.2 Mixtures, continued

Ingredient	Percent	Classification	EC Number/ CAS Number
Cobalt dihydroxide	≤ 7	(CLP) Acute Tox 4, H302; Acute Tox 4, H312; Acute Tox 4, H332; Skin Irrit 2, H315; Eye Irrit 2, H319; STOT SE 3, H335 (GHS) Acute Tox 4, H302; Acute Tox 4, H312; Acute Tox 4, H332; Skin Irrit 2, H315; Eye Irrit 2, H319; STOT SE 3, H335	244-166-4 / 21041-93-0

For full text of the H-statements and other abbreviations see section 16 "Other information".

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation: Provide fresh air and seek medical attention.

Skin contact: Remove contaminated clothing and wash skin with soap and water. If a chemical burn occurs or if irritation persists, seek medical attention.

Eye contact: Immediately flush eyes thoroughly with water for at least 15 minutes, lifting upper and lower lids, until no evidence of the chemical remains. Seek medical attention.

If swallowed: Do not induce vomiting or give food or drink. Seek medical attention immediately.

4.2. Most important symptoms and effects, both acute and delayed

No further relevant information

4.3. Indication of any immediate medical attention and special treatment required

No further relevant information

SECTION 5: Fire-fighting measures

5.1. Extinguishing media

In case of fire where nickel metal hydride batteries are present, apply a smothering agent such as METL-X, sand, dry ground dolomite, or soda ash, or flood the area with water. A smothering agent will extinguish burning nickel metal hydride batteries. Water may not extinguish burning batteries but will cool the adjacent batteries and control the spread of fire. Burning batteries will burn themselves out. Virtually all fires involving nickel metal hydride batteries can be controlled with water. When water is used, however, hydrogen gas may evolve. In a confined space, hydrogen gas can form an explosive mixture. In this situation, smothering agents are recommended.

5.2. Special hazards arising from the substance or mixture

Burning nickel metal hydride batteries can produce toxic fumes including oxides of nickel, cobalt, aluminum, manganese, lanthanum, cerium, neodymium, and praseodymium.

5.3. Advice for fire-fighters

Fire fighters should wear self-contained breathing apparatus.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid contact with skin and eyes. Wear safety glasses with side shields if handling an open or leaking battery. Use neoprene or natural rubber gloves if handling an open or leaking battery. Room ventilation may be required in areas where there are open or leaking batteries

6.2. Environmental precautions

Do not empty into drains / surface water / ground water

6.3. Methods and material for containment and cleaning up

Battery materials should be collected in a leak-proof container. Dispose of contaminated material as waste according to Chapter 13.



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SECTION 6: Accidental release measures, continued

6.4. Reference to other sections

Refer to Section 8 and Section 13 for more information

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Store in a cool, well-ventilated area. Elevated temperatures can result in shortened battery life.

Accidental short circuit for a few seconds will not seriously affect the battery. Prolonged short circuit will cause the battery to lose energy, and can cause the safety release vent to open. Sources of short circuits include jumbled batteries in bulk containers, metal jewelry, metal covered tables or metal belts used for assembly of batteries into devices.

Avoid skin and eye contact. See advice in chapter 8

7.2. Conditions for safe storage including any incompatibilities

See section 7.1 above

7.3. Specific end use(s)

See information in Section 7.1 and 7.2 for handling and storage recommendations. See Section 8 for exposure controls and personal protection recommendations.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ventilation Requirements: Not necessary under normal conditions. Respiratory Protection: Not necessary under normal conditions.

Eye Protection: Not necessary under normal conditions.

Gloves: Not necessary under normal conditions.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Solid object
Physical state	Solid object
Odor	Not applicable for an Article
Odor Threshold	Not applicable for an Article
pH	Not applicable for an Article
Flash Point	Not applicable for an Article
Melting Point/Range	Not applicable for an Article
Freezing point	Not applicable for an Article
Boiling Point/Range	Not applicable for an Article
Autoignition Temperature	Not applicable for an Article
Flammability Limits in Air	Not applicable for an Article

Explosive properties	Not applicable for an Article
Oxidizing properties	Not applicable for an Article
Vapor pressure	Not applicable for an Article
Vapor density	Not applicable for an Article
Density	Not applicable for an Article
Partition coefficient	Not applicable for an Article
Water solubility	Not applicable for an Article
Viscosity	Not applicable for an Article
Evaporation rate	Not applicable for an Article
Decomposition	Not applicable for an Article

9.2. Other information

No further relevant information

SECTION 10: Stability and reactivity

10.1 Reactivity

Nickel metal hydride batteries do not meet any of the criteria established for reactivity

10.2 Chemical stability

Stable



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SECTION 10: Stability and reactivity, continued

10.3 Possibility of hazardous reactions

No dangerous reaction known under conditions of normal use

10.4 Conditions to avoid

Heat

10.5 Incompatible materials

See section 7.1 above

10.6 Hazardous decomposition products

Refer to section 5.2 for hazardous decomposition products during combustion.

SECTION 11: Toxicological information

11.1 Information on Toxicological effects

Under normal conditions of use, nickel metal hydride batteries are non-toxic.

SECTION 12: Ecological information

12.1. Toxicity

Issues such as ecotoxicity, persistence and bioaccumulation are not applicable for articles.

SECTION 13: Disposal considerations

Dispose of in accordance with all applicable federal, state and local regulations. Appropriate disposal technologies include incineration and land filling. Nickel metal hydride batteries can also be collected as part of the rechargeable battery recycling program. Visit nearest recycling center for rechargeable battery recycling and disposal information.

SECTION 14: Transportation information

In general, all batteries in all forms of transportation (ground, air, or ocean) must be packaged in a safe and responsible manner. Regulatory concerns from all agencies for safe packaging require that batteries be packaged in a manner that prevents short circuits and be contained in "strong outer packaging" that prevents spillage of contents. All original packaging for nickel metal hydride batteries has been designed to be compliant with these regulatory concerns.

Nickel metal hydride batteries (sometimes referred to as "Dry cell" batteries) are not defined as dangerous goods under the IATA Dangerous Goods Regulations, ICAO Technical Instructions and the U.S. hazardous materials regulations (49 CFR). Nickel metal hydride batteries are defined as dangerous goods under the IMDG code. For air and ground transportation, these batteries are not subject to the dangerous goods regulations as they are compliant with the requirements contained in the following special provisions.

Regulatory Body	Special Provisions
ADR	295 - 304, 598
IMDG	UN3496 SP 963
UN	UN 3028 Provisions 295 - 304
US DOT	49 CFR 172.102 Provision 130
IATA	A123, A199
ICAO	UN 3028 Provisions 295 – 304

In addition, the IATA Dangerous Goods Regulations and ICAO Technical Instructions require the words "not restricted" and the Special Provision number A123 be provided on the air waybill, when an air waybill is issued.



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SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Batteries are not classified as dangerous goods for transportation by the major international regulatory bodies and are therefore not regulated.

15.2. Chemical Safety Assessment

A Chemical Safety Assessment is not required for this article

SECTION 16: Other information

The labeling of the product is indicated in Section 2. The full text of all abbreviations indicated by codes in this safety data sheet are as follows:

H302 Harmful if swallowed

H312 Harmful in contact with skin.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction

H319 Causes serious eye irritation.

H332 Harmful if inhaled

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled

H335 May cause respiratory irritation

H341 Suspected of causing genetic defects

H350i May cause cancer by inhalation

H351 Suspected of causing cancer

H360D May damage the unborn child

H372 Causes damage to organs through prolonged or repeated exposure

H400 Very toxic to aquatic life

H410 Very toxic to aquatic life with long lasting effects

The information herein is presented in good faith and believed to be accurate as of the effective date shown below. However, no warranty, expressed or implied, is given. Regulatory requirements are subject to change and may differ from one location to another. It is the buyer's responsibility to ensure that its activities comply with federal, state or Provincial, and local laws.

Effective Date: November 7, 2016

Supersedes: April 25, 2016

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