SDS Report

No. SHAEC1608072001 Date: Apr. 29, 2016 Page 1 of 1

XINXIANG HENGLI POWER SUPPLY CO., LTD.
CHENBAO INDUSTRIAL AREA, FENGQUAN DISTRICT, XINXIANG.

SGS Ref. No.	:	TP16-002956
Sample Name	:	Ni-CD AAA300mAh 1.2V
End Uses	:	Industrial Use
Composition/Ingredient of sample (as per client submission)	:	See *section 3 Composition/information on ingredients* on the SDS report
Job Receiving Date	:	Apr 21, 2016
Last Information Date	:	Apr 25, 2016
SDS Preparation Period	:	Apr 21 - 29, 2016

Service Requested : Preparation of Safety Data Sheet (SDS) for the sample with submitted information.

Summary : As per request, the contents and formats of the SDS are prepared in accordance with US Regulations Relating to Labor 29 CFR 1910.1200 (g), and is provided per attached.

Remark:
This sample is likely to be classified as article and is out of scope of a SDS as set out in 29 CFR Part 1910.1200. This SDS is generated for client's reference only.

Signed for and on behalf of
SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.

Wei WANG, Terry
Approved Signatory

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Safety Data Sheet
29 CFR 1910.1200

Printing date 04/29/2016 **Reviewed on 04/26/2016**

1 Identification

· **Product identifier**
· **Trade name:** Ni-CD AAA300mAh 1.2V

· **Recommended use of the chemical and restrictions on use**
· **Application of the substance / the preparation:** Industrial Use

· **Details of the supplier of the safety data sheet**
· **Manufacturer/Supplier:**
XINXIANG HENGLI POWER SUPPLY CO., LTD.
CHENBAO INDUSTRIAL AREA, FENGQUAN DISTRICT, XINXIANG.
Tel: 0373-5418911
Email: jenny_henglipower@hotmail.com
· **Other US contact point:** Not available
· **Further information obtainable from:** XINXIANG HENGLI POWER SUPPLY CO., LTD.

· **Emergency telephone number:**
Jenny LIANG
Tel: 18530736260

Poison Center
Tel: +1 800 222 1222

· **Reference Number:** TP16-002956; SHAEC1608072001

· **Remark:**
This sample is likely to be classified as article and is out of scope of a SDS as set out in 29 CFR Part 1910.1200. This SDS is generated for client's reference only.

2 Hazard(s) identification

· **Classification of the substance or mixture**
Classification according to OSHA Hazard Communication Standard (29 CFR 1910.1200)

GHS06 Skull and crossbones

Acute Tox. 2 H330 Fatal if inhaled.

GHS08 Health hazard

Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Muta. 2 H341 Suspected of causing genetic defects.
Carc. 1A H350 May cause cancer.
Repr. 1 H360 May damage fertility or the unborn child.
STOT RE 1 H372 Causes damage to organs through prolonged or repeated exposure.

GHS05 Corrosion

Eye Dam. 1 H318 Causes serious eye damage.

GHS07

Acute Tox. 4 H302 Harmful if swallowed.
Skin Irrit. 2 H315 Causes skin irritation.
Skin Sens. 1 H317 May cause an allergic skin reaction.

(Contd. on page 2)

Safety Data Sheet
29 CFR 1910.1200

Printing date 04/29/2016 **Reviewed on 04/26/2016**

Trade name: Ni-CD AAA300mAh 1.2V

(Contd. of page 1)

· **Information concerning particular hazards for human and environment:**
The product has to be labeled due to the calculation procedure of OSHA Hazard Communication Standard (29 CFR 1910.1200).
· **Classification system:**
The classification is according to the latest edition of OSHA Hazard Communication Standard (29 CFR 1910.1200), and extended by company and literature data.

· **Label elements**
· **Labelling according to OSHA Hazard Communication Standard (29 CFR 1910.1200)**
· **Hazard pictograms**

GHS05 GHS06 GHS08

· **Signal word** Danger

· **Hazard-determining components of labeling:**
cadmium oxide (nonpyrophoric)
nickel dihydroxide
potassium hydroxide
cobalt oxide
· **Hazard statements**
H302 Harmful if swallowed.
H330 Fatal if inhaled.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H317 May cause an allergic skin reaction.
H341 Suspected of causing genetic defects.
H350 May cause cancer.
H360 May damage fertility or the unborn child.
H372 Causes damage to organs through prolonged or repeated exposure.
· **Precautionary statements**

P260	Do not breathe dust/fume/gas/mist/vapors/spray.
P305+P351+P338	If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER/doctor.
P320	Specific treatment is urgent (see on this label).
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Hazards not otherwise classified (HNOC)** No further relevant information available.

3 Composition/information on ingredients

· **Chemical characterization: Mixtures**
· **Description:**
Mixture of the substances listed below with nonhazardous additions.
For the wording of the listed hazard statements refer to Section 16.

· **Composition:**

(Contd. on page 3)

Safety Data Sheet
29 CFR 1910.1200

Printing date 04/29/2016 **Reviewed on 04/26/2016**

Trade name: Ni-CD AAA300mAh 1.2V

(Contd. of page 2)

12054-48-7	nickel dihydroxide Resp. Sens. 1, H334; Muta. 2, H341; Carc. 1A, H350; Repr. 1B, H360; STOT RE 1, H372; Acute Tox. 4, H302; Acute Tox. 4, H332; Skin Irrit. 2, H315; Skin Sens. 1, H317	45.37%
1306-19-0	cadmium oxide (nonpyrophoric) Acute Tox. 2, H330; Muta. 2, H341; Carc. 1B, H350; Repr. 2, H361; STOT RE 1, H372	41.6%
1310-58-3	potassium hydroxide Skin Corr. 1A, H314; Acute Tox. 4, H302	4.45%
1307-96-6	cobalt oxide Carc. 2, H351; Acute Tox. 4, H302; Skin Sens. 1, H317	3.41%
7439-89-6	iron	2.75%
7440-02-0	nickel Carc. 2, H351; STOT RE 1, H372; Skin Sens. 1, H317	2.42%

4 First-aid measures

· **Description of first aid measures**
· **General information:**
Immediately remove any clothing soiled by the product.
Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
Remove breathing apparatus only after contaminated clothing have been completely removed.
In case of irregular breathing or respiratory arrest provide artificial respiration.
· **After inhalation:**
Supply fresh air or oxygen; call for doctor.
In case of unconsciousness place patient stably in side position for transportation.
· **After skin contact:**
Immediately wash with water and soap and rinse thoroughly.
If skin irritation continues, consult a doctor.
· **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.
· **After swallowing:**
Rinse out mouth with water.
Immediately call a doctor.
Never give anything by mouth to an unconscious person.
· **Most important symptoms and effects, both acute and delayed** No further relevant information available.
· **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

5 Fire-fighting measures

· **Suitable extinguishing agents:**
CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
· **Special hazards arising from the substance or mixture:**
During heating or in case of fire poisonous gases are produced.
· **Special protective equipment and precautions for firefighters**
· **Protective equipment:**
Mouth respiratory protective device.
Wear fully protective suit.

(Contd. on page 4)

Safety Data Sheet
29 CFR 1910.1200

Printing date 04/29/2016 **Reviewed on 04/26/2016**

Trade name: Ni-CD AAA300mAh 1.2V

(Contd. of page 3)

6 Accidental release measures

· **Personal precautions, protective equipment and emergency procedures:**
Mount respiratory protective device.
Wear protective equipment. Keep unprotected persons away.
Ensure adequate ventilation.
Avoid formation of dust.
Keep away from ignition sources.
Use respiratory protective device against the effects of fumes/dust/aerosol.
Avoid contact with eyes.
Avoid contact with skin.

· **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.

· **Methods and material for containment and cleaning up:**
Use neutralizing agent.
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.

7 Handling and storage

· **Precautions for safe handling:**
Thorough dedusting.
Ensure good ventilation/exhaustion at the workplace.
Open and handle receptacle with care.
Keep away from heat and direct sunlight.
Prevent formation of dust.
Avoid contact with eyes and skin.
For the general occupational hygienic measures refer to Section 8.
· **Information about protection against explosions and fires:** Keep respiratory protective device available.

· **Conditions for safe storage, including any incompatibilities**
· **Requirements to be met by storerooms and receptacles:**
Store in a cool location.
Store only in the original receptacle.
· **Information about storage in one common storage facility:**
Store away from foodstuffs.
Store away from flammable substances.
Do not store together with oxidizing and acidic materials.
· **Further information about storage conditions:** Store in cool, dry conditions in well sealed receptacles.

8 Exposure controls/personal protection

· **Components with limit values that require monitoring at the workplace:**

12054-48-7 nickel dihydroxide (45.37%)	
PEL (USA)	Long-term value: 1 mg/m³ as Ni
REL (USA)	Long-term value: 0.015 mg/m³ as Ni; See Pocket Guide App. A
1306-19-0 cadmium oxide (nonpyrophoric) (41.6%)	
PEL (USA)	Long-term value: 0.005 mg/m³ as Cd; see 29 CFR 1910.1027
REL (USA)	See Pocket Guide App. A
TLV (USA)	Long-term value: 0.01 0.002* mg/m³ as Cd; *respirable fraction; BEI

(Contd. on page 5)

Safety Data Sheet
29 CFR 1910.1200

Printing date 04/29/2016 **Reviewed on 04/26/2016**

Trade name: Ni-CD AAA300mAh 1.2V

(Contd. of page 4)

1310-58-3 potassium hydroxide (4.45%)	
PEL (USA)	Ceiling limit value: 2 mg/m³
TLV (USA)	Ceiling limit value: 2 mg/m³
1307-96-6 cobalt oxide (3.41%)	
PEL (USA)	Long-term value: 0.1* mg/m³ as Co; *for metal dust and fume
REL (USA)	Long-term value: 0.05 mg/m³ as Co; metal dust & fume
TLV (USA)	Long-term value: 0.02 mg/m³ as Co, BEI
7440-02-0 nickel (2.42%)	
PEL (USA)	Long-term value: 1 mg/m³
REL (USA)	Long-term value: 0.015 mg/m³ as Ni; See Pocket Guide App. A
TLV (USA)	Long-term value: 1.5* mg/m³ elemental, *inhalable fraction

· **Ingredients with biological limit values:**	
1307-96-6 cobalt oxide	
BEI (USA)	15 µg/L Medium: urine Time: end of shift at end of workweek Parameter: Cobalt (background) 1 µg/L Medium: urine Time: end of shift at end of workweek Parameter: Cobalt (background, semi-quantitative)

· **Additional information:** The lists that were valid during the creation were used as basis.
· **Based on the composition shown in Section 3, the following measures are suggested for occupational safety measure**
· **Appropriate engineering controls:**
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
Store protective clothing separately.
Avoid contact with the eyes and skin.
See Section 7 for information about design of technical facilities.

· **Personal protective equipment**
· **Breathing equipment:**
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.
· **Protection of hands:**

Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
· **Material of gloves:**
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the

(Contd. on page 6)

Safety Data Sheet
29 CFR 1910.1200

Printing date 04/29/2016 **Reviewed on 04/26/2016**

Trade name: Ni-CD AAA300mAh 1.2V

(Contd. of page 5)

resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material:**
The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:**

Tightly sealed goggles

9 Physical and chemical properties

· **General Information**	
· **Appearance:**	
Form:	*The whole of battery*
Color:	*Yellow & green PVC*
· **Odor:**	*Odorless*
· **Odor threshold:**	*Not available.*
· **pH-value:**	*Not available.*
· **Change in condition**	
Melting point/Melting range:	*Not available.*
Freezing point:	*Not available.*
Boiling point/Boiling range:	*Not available.*
· **Flash point:**	*Not available.*
· **Flammability (solid, gaseous):**	*Not available.*
· **Auto-Ignition temperature:**	*Not available.*
· **Decomposition temperature:**	*Not available.*
· **Explosion limits:**	
Lower:	*Not available.*
Upper:	*Not available.*
· **Vapor pressure:**	*Not available.*
· **Density:**	*Not available.*
· **Relative density**	*Not available.*
· **Vapor density**	*Not available.*
· **Evaporation rate**	*Not available.*
· **Solubility in / Miscibility with**	
Water:	*Not available.*
· **Partition coefficient (n-octonol/water):**	*Not available.*
· **Viscosity:**	
Dynamic:	*Not available.*
Kinematic:	*Not available.*
· **Other information**	*No further relevant information available.*

10 Stability and reactivity

· **Reactivity** *No decomposition if used according to specifications.*

· **Chemical stability** *Stable under recommended storage conditions.*

· **Possibility of hazardous reactions** *No dangerous reactions known.*

(Contd. on page 7)

Safety Data Sheet
29 CFR 1910.1200

Printing date 04/29/2016 **Reviewed on 04/26/2016**

Trade name: Ni-CD AAA300mAh 1.2V

(Contd. of page 6)

· **Conditions to avoid** No further relevant information available.

· **Incompatible materials:** No further relevant information available.

· **Hazardous decomposition products:** No dangerous decomposition products known.

11 Toxicological information

· **Acute toxicity**

· **LD/LC50 values that are relevant for classification:**		
1306-19-0 cadmium oxide (nonpyrophoric)		
Oral	LD50	72 mg/kg (rat)
1310-58-3 potassium hydroxide		
Oral	LD50	273 mg/kg (rat)
1307-96-6 cobalt oxide		
Oral	LD50	202 mg/kg (rat)
7439-89-6 iron		
Oral	LD50	30000 mg/kg (rat)

· **Primary irritant effect**

· **Skin corrosion/irritation:** Irritant to skin and mucous membranes.

· **Serious eye damage/irritation:** Strong irritant with the danger of severe eye injury.

· **Respiratory or skin sensitisation:**
Sensitization possible.
Sensitization possible through inhalation.
Sensitization possible through skin contact.

· **Additional toxicological information:**
The product shows the following dangers according to internally approved calculation methods for preparations:
Toxic
Harmful
Irritant
Very toxic
Carcinogenic.

· **Carcinogenic categories**

· **IARC (International Agency for Research on Cancer)**		
12054-48-7	nickel dihydroxide	1
1306-19-0	cadmium oxide (nonpyrophoric)	1
1307-96-6	cobalt oxide	2B
7440-02-0	nickel	1

· **NTP (National Toxicology Program)**		
12054-48-7	nickel dihydroxide	K
1306-19-0	cadmium oxide (nonpyrophoric)	K
7440-02-0	nickel	R

· **OSHA-Ca (Occupational Safety & Health Administration)**	
1306-19-0	cadmium oxide (nonpyrophoric)

12 Ecological information

· **Toxicity**

· **Aquatic toxicity:** No further relevant information available.

(Contd. on page 8)

Safety Data Sheet
29 CFR 1910.1200

Printing date 04/29/2016 **Reviewed on 04/26/2016**

Trade name: Ni-CD AAA300mAh 1.2V

(Contd. of page 7)

· **Persistence and degradability** No further relevant information available.

· **Bioaccumulative potential** No further relevant information available.

· **Mobility in soil** No further relevant information available.

· **Other adverse effects** No further relevant information available.

13 Disposal considerations

· **Waste treatment methods**
· **Recommendation:**
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

· **Uncleaned packagings**
· **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

· **UN-Number**	
· **DOT, IMDG, IATA**	UN3288
· **UN proper shipping name**	
· **DOT**	Toxic solid, inorganic, n.o.s. (cadmium oxide (nonpyrophoric))
· **IMDG**	TOXIC SOLID, INORGANIC, N.O.S. (cadmium oxide (nonpyrophoric), nickel dihydroxide), MARINE POLLUTANT
· **IATA**	TOXIC SOLID, INORGANIC, N.O.S. (cadmium oxide (nonpyrophoric))
· **Transport hazard class(es)**	
· **DOT**	
· **Class**	6.1 Toxic substances
· **Label**	6.1
· **IMDG**	
· **Class**	6.1 Toxic substances
· **Label**	6.1
· **IATA**	
· **Class**	6.1 Toxic substances
· **Label**	6.1
· **Packing group**	
· **DOT, IMDG, IATA**	II

(Contd. on page 9)

Safety Data Sheet
29 CFR 1910.1200

Printing date 04/29/2016 **Reviewed on 04/26/2016**

Trade name: Ni-CD AAA300mAh 1.2V

(Contd. of page 8)

· **Environmental hazards**	Product contains environmentally hazardous substances: nickel dihydroxide, cadmium oxide (nonpyrophoric)
· **Marine pollutant:**	Yes (DOT) Symbol (fish and tree)
· **Special precautions for user**	Warning: Toxic substances
· **EMS Number:**	F-A,S-A
· **Stowage Category**	B
· **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**	Not applicable.
· **Transport/Additional information:**	
· **DOT**	
· **Limited quantities (LQ):**	On passenger aircraft/rail: 25 kg On cargo aircraft only: 100 kg
· **Remarks:**	Special marking with the symbol (fish and tree).
· **IMDG**	
· **Limited quantities (LQ)**	500 g
· **Excepted quantities (EQ)**	Code: E4 Maximum net quantity per inner packaging: 1 g Maximum net quantity per outer packaging: 500 g
· **UN "Model Regulation":**	UN 3288 TOXIC SOLID, INORGANIC, N.O.S. (CADMIUM OXIDE (NONPYROPHORIC)), 6.1, II, ENVIRONMENTALLY HAZARDOUS

15 Regulatory information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**
· **Sara**

· **Section 355 (extremely hazardous substances):**

1306-19-0	cadmium oxide (nonpyrophoric)

· **Section 313 (Specific toxic chemical listings):**

12054-48-7	nickel dihydroxide
1306-19-0	cadmium oxide (nonpyrophoric)
1307-96-6	cobalt oxide
7440-02-0	nickel

· **TSCA (Toxic Substances Control Act):**

All ingredients are listed.

· **Proposition 65**

· **Chemicals known to cause cancer:**

12054-48-7	nickel dihydroxide
1306-19-0	cadmium oxide (nonpyrophoric)
1307-96-6	cobalt oxide
7440-02-0	nickel

· **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

· **Chemicals known to cause developmental toxicity:**

None of the ingredients is listed.

(Contd. on page 10)

Safety Data Sheet
29 CFR 1910.1200

Printing date 04/29/2016 **Reviewed on 04/26/2016**

Trade name: Ni-CD AAA300mAh 1.2V

(Contd. of page 9)

· **Cancerogenity categories**

· **EPA (Environmental Protection Agency):**		
1306-19-0	cadmium oxide (nonpyrophoric)	B1

· **TLV (Threshold Limit Value established by ACGIH):**		
12054-48-7	nickel dihydroxide	A1
1306-19-0	cadmium oxide (nonpyrophoric)	A2
1307-96-6	cobalt oxide	A3
7440-02-0	nickel	A5

· **NIOSH-Ca (National Institute for Occupational Safety and Health):**	
12054-48-7	nickel dihydroxide
1306-19-0	cadmium oxide (nonpyrophoric)
7440-02-0	nickel

· **National regulations**

· **Additional classification according to Decree on Hazardous Materials:**
Carcinogenic hazardous material group III (dangerous).

16 Other information

· **Relevant phrases**
H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H330 Fatal if inhaled.
H332 Harmful if inhaled.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H341 Suspected of causing genetic defects.
H350 May cause cancer.
H351 Suspected of causing cancer.
H360 May damage fertility or the unborn child.
H361 Suspected of damaging fertility or the unborn child.
H372 Causes damage to organs through prolonged or repeated exposure.
· **********
The contents and format of this SDS are in accordance with 29 CFR 1910.1200(g).

DISCLAIMER OF LIABILITY :
The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. 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. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable.

· **Remark**
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· **Date of preparation / last revision** 04/29/2016 / -

· **Abbreviations and acronyms:**
IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
IATA: International Air Transport Association
ACGIH: American Conference of Governmental Industrial Hygienists
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)

(Contd. on page 11)

Safety Data Sheet
29 CFR 1910.1200

Printing date 04/29/2016 **Reviewed on 04/26/2016**

Trade name: Ni-CD AAA300mAh 1.2V

(Contd. of page 10)

LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
NIOSH: National Institute for Occupational Safety
OSHA: Occupational Safety & Health
Acute Tox. 4: Acute toxicity, Hazard Category 4
Acute Tox. 2: Acute toxicity, Hazard Category 2
Skin Corr. 1A: Skin corrosion/irritation, Hazard Category 1A
Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2
Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1
Resp. Sens. 1: Sensitisation - Respirat., Hazard Category 1
Skin Sens. 1: Sensitisation - Skin, Hazard Category 1
Muta. 2: Germ cell mutagenicity, Hazard Category 2
Carc. 1A: Carcinogenicity, Hazard Category 1A
Carc. 1B: Carcinogenicity, Hazard Category 1B
Carc. 2: Carcinogenicity, Hazard Category 2
Repr. 1: Reproductive toxicity, Hazard Category 1
Repr. 1B: Reproductive toxicity, Hazard Category 1B
Repr. 2: Reproductive toxicity, Hazard Category 2
STOT RE 1: Specific target organ toxicity - Repeated exposure, Hazard Category 1

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