

# SAFETY DATA SHEET

Regulation (EC) No 1907/2006 (REACH), Annex II  
(COMMISSION REGULATION (EU) No 453/2010)

Version 1

Product Name Nickel Cadmium Battery

Issue Date 08-Jun-2015

Revision date 13-Jul-2015

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

### 1.1. Product identifier

Product Name Nickel Cadmium Battery  
REACH registration number No information available

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

Recommended Use Used to supply electrical energy  
Uses advised against No information available

### 1.3. Details of the supplier of the safety data sheet

Supplier Jiangmen JJJ Battery Co., Ltd.  
Address No.83 Yongsheng Road, Baisha Ind. Dev. Area West, Jiangmen city, Guangdong province, China  
Postal Code 529000  
Phone +86-750-3534405  
FAX +86-750-3534305  
E-mail lsp@jjjbattery.com

### 1.4. Emergency telephone number

+86-750-3534405

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

This product is not classified as hazardous.

### 2.2. Label elements

Symbols/Pictograms None  
Signal word None  
Hazard Statements Not applicable  
Precautionary Statements Not applicable

### 2.3. Other hazards

No information available

## SECTION 3: Composition/information on ingredients

### 3.1. Mixture

Chemical Name	EC No	CAS No	Weight-%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Iron	231-096-4	7439-89-6	34.4	Not classified

Cadmium oxide	215-146-2	1306-19-0	28.3	Acute Tox. 2 (H330) Muta. 2 (H341) Carc. 1B (H350) Repr. 2 (H361fd) STOT RE 1 (H372) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)
Nickel hydroxide	235-008-5	12054-48-7	18.9	Acute Tox. 4 (H302) Acute Tox. 4 (H332) Skin Irrit. 2 (H315) Resp. Sens. 1 (H334) Skin Sens. 1 (H317) Muta. 2 (H341) Carc. 1A (H350i) Repr. 1B (H360D) STOT RE 1 (H372) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)
Nickel	231-111-4	7440-02-0	5	Carc. 2; H351 STOT RE 1; H372 Skin Sens. 1; H317 Aquatic Chronic 3; H412
Potassium hydroxide	215-181-3	1310-58-3	3.7	Acute Tox. 4 (H302) Skin Corr. 1A (H314)
Cadmium and compounds (as Cd)	231-152-8	7440-43-9	3.3	Acute Tox. 2 (H330) Muta. 2 (H341) Carc. 1B (H350) Repr. 2 (H361fd) STOT RE 1 (H372) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)
Vinylon	N/A	N/A	2.7	Not classified
Cobalt(II) oxide	215-154-6	1307-96-6	2.5	Acute Tox. 4 (H302) Skin Sens. 1 (H317) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)
Nickel powder	231-111-4	7440-02-0	0.9	Carc. 2; H351 STOT RE 1; H372 Skin Sens. 1; H317 Aquatic Chronic 3; H412
Lithium hydroxide	215-183-4	1310-65-2	0.3	Acute Tox. 4 Skin Corr. 1B

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General advice

Remove contaminated clothing and shoes. If symptoms persist, call a physician.

#### Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.

#### Skin Contact

Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Wash contaminated clothing before reuse. If skin irritation persists, call a physician.

#### Eye contact

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

**Ingestion**

Rinse mouth Get medical attention Never give anything by mouth to an unconscious person

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

No information available

**4.3. Indication of any immediate medical attention and special treatment needed**

Treat symptomatically.

**SECTION 5: Firefighting measures****5.1. Extinguishing media****Suitable extinguishing media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable extinguishing media**

No information available

**5.2. Special hazards arising from the substance or mixture**

Thermal decomposition can lead to release of irritating and toxic gases and vapors

**5.3. Advice for firefighters**

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

Evacuate personnel to safe areas

Ensure adequate ventilation, especially in confined areas

Remove all sources of ignition

Avoid contact with skin, eyes and inhalation of vapors

Use personal protection recommended in Section 8

**6.2. Environmental precautions**

Local authorities should be advised if significant spillages cannot be contained

Prevent entry into waterways, sewers, basements or confined areas

**6.3. Methods and material for containment and cleaning up**

Place in container for disposal according to local / national regulations (see Section 13)

**6.4. Reference to other sections**

See Section 7 for more information

See section 8 for more information

See section 13 for more information

**SECTION 7: Handling and storage****7.1. Precautions for safe handling**

Handle in accordance with good industrial hygiene and safety practice

Ensure adequate ventilation, especially in confined areas

Avoid contact with skin, eyes or clothing

Wash contaminated clothing before reuse

Take precautionary measures against static discharges

Do not breathe dust/fume/gas/mist/vapors/spray

Do not eat, drink or smoke when using this product

Wash thoroughly after handling

Use personal protection recommended in Section 8

**7.2. Conditions for safe storage, including any incompatibilities**

Keep containers tightly closed in a dry, cool and well-ventilated place  
 Keep away from heat  
 Keep locked up and out of reach of children  
 Store in accordance with local regulations

### 7.3. Specific end use(s)

Apart from the uses mentioned in SECTION 1.2 no other specific uses are stipulated.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

Chemical Name	Australia	Austria	Belgium	Denmark	European Union
Cadmium oxide (CAS #: 1306-19-0)	0.01 mg/m <sup>3</sup>	-	-	TWA: 0.005 mg/m <sup>3</sup>	-
Nickel hydroxide (CAS #: 12054-48-7)	-	-	-	TWA: 0.05 mg/m <sup>3</sup>	-
Nickel (CAS #: 7440-02-0)	1 mg/m <sup>3</sup>	-	-	TWA: 0.05 mg/m <sup>3</sup>	-
Potassium hydroxide (CAS #: 1310-58-3)	2 mg/m <sup>3</sup> Peak	TWA: 2 mg/m <sup>3</sup>	-	Ceiling: 2 mg/m <sup>3</sup>	-
Cadmium and compounds (as Cd) (CAS #: 7440-43-9)	0.01 mg/m <sup>3</sup>	-	-	TWA: 0.005 mg/m <sup>3</sup>	-
Cobalt(II) oxide (CAS #: 1307-96-6)	-	Skin	-	TWA: 0.01 mg/m <sup>3</sup>	-

Chemical Name	Latvia	France	Finland	Germany	Italy
Cadmium oxide (CAS #: 1306-19-0)	TWA: 0.01 mg/m <sup>3</sup> STEL: 0.05 mg/m <sup>3</sup>	TWA: 0.05 mg/m <sup>3</sup> STEL: 0.05 mg/m <sup>3</sup>	TWA: 0.02 mg/m <sup>3</sup> TWA: 0.01 mg/m <sup>3</sup> Skin	Skin	-
Nickel hydroxide (CAS #: 12054-48-7)	TWA: 0.05 mg/m <sup>3</sup>	TWA: 1 mg/m <sup>3</sup>	TWA: 0.1 mg/m <sup>3</sup>	Skin	-
Nickel (CAS #: 7440-02-0)	TWA: 0.05 mg/m <sup>3</sup>	TWA: 1 mg/m <sup>3</sup>	TWA: 1 mg/m <sup>3</sup> TWA: 0.1 mg/m <sup>3</sup>	Skin	-
Potassium hydroxide (CAS #: 1310-58-3)	-	STEL: 2 mg/m <sup>3</sup>	STEL: 2 mg/m <sup>3</sup> Ceiling: 2 mg/m <sup>3</sup>	-	-
Cadmium and compounds (as Cd) (CAS #: 7440-43-9)	TWA: 0.01 mg/m <sup>3</sup> STEL: 0.05 mg/m <sup>3</sup>	TWA: 0.05 mg/m <sup>3</sup>	TWA: 0.02 mg/m <sup>3</sup> Skin	Skin	-
Cobalt(II) oxide (CAS #: 1307-96-6)	TWA: 0.5 mg/m <sup>3</sup>	-	TWA: 0.02 mg/m <sup>3</sup>	Skin	-

Chemical Name	Poland	Portugal	Spain	Switzerland	Netherlands
Cadmium oxide (CAS #: 1306-19-0)	TWA: 0.01 mg/m <sup>3</sup> TWA: 0.002 mg/m <sup>3</sup>	TWA: 0.002 mg/m <sup>3</sup>	TWA: 0.01 mg/m <sup>3</sup> TWA: 0.002 mg/m <sup>3</sup>	Skin TWA: 0.002 mg/m <sup>3</sup> TWA: 0.015 mg/m <sup>3</sup>	TWA: 0.005 mg/m <sup>3</sup>
Nickel hydroxide (CAS #: 12054-48-7)	TWA: 0.25 mg/m <sup>3</sup>	TWA: 0.2 mg/m <sup>3</sup>	TWA: 0.2 mg/m <sup>3</sup>	TWA: 0.05 mg/m <sup>3</sup>	-
Nickel (CAS #: 7440-02-0)	TWA: 0.25 mg/m <sup>3</sup>	TWA: 1.5 mg/m <sup>3</sup>	TWA: 1 mg/m <sup>3</sup>	TWA: 0.5 mg/m <sup>3</sup>	-
Potassium hydroxide (CAS #: 1310-58-3)	STEL: 1 mg/m <sup>3</sup> TWA: 0.5 mg/m <sup>3</sup>	Ceiling: 2 mg/m <sup>3</sup>	STEL: 2 mg/m <sup>3</sup>	TWA: 2 mg/m <sup>3</sup>	-
Cadmium and compounds (as Cd) (CAS #: 7440-43-9)	TWA: 0.01 mg/m <sup>3</sup> TWA: 0.002 mg/m <sup>3</sup>	TWA: 0.01 mg/m <sup>3</sup> TWA: 0.002 mg/m <sup>3</sup>	TWA: 0.01 mg/m <sup>3</sup> TWA: 0.002 mg/m <sup>3</sup>	Skin TWA: 0.015 mg/m <sup>3</sup>	-
Cobalt(II) oxide (CAS #: 1307-96-6)	TWA: 0.02 mg/m <sup>3</sup>	TWA: 0.02 mg/m <sup>3</sup>	TWA: 0.02 mg/m <sup>3</sup>	Skin TWA: 0.05 mg/m <sup>3</sup>	-

Chemical Name	Norway	United Kingdom	ACGIH TLV	OSHA PEL	NIOSH IDLH
Cadmium oxide (CAS #: 1306-19-0)	TWA: 0.05 mg/m <sup>3</sup> Ceiling: 0.02 mg/m <sup>3</sup> STEL: 0.05 mg/m <sup>3</sup>	STEL: 0.05 mg/m <sup>3</sup> TWA: 0.025 mg/m <sup>3</sup>	TWA: 0.01 mg/m <sup>3</sup> Cd TWA: 0.002 mg/m <sup>3</sup> Cd respirable fraction	-	IDLH: 9 mg/m <sup>3</sup> Cd fume IDLH: 9 mg/m <sup>3</sup> Cd dust and fume
Nickel hydroxide (CAS #: 12054-48-7)	TWA: 0.05 mg/m <sup>3</sup> STEL: 0.05 mg/m <sup>3</sup>	TWA: 0.5 mg/m <sup>3</sup>	TWA: 0.2 mg/m <sup>3</sup> Ni inhalable fraction	TWA: 1 mg/m <sup>3</sup> Ni (vacated) TWA: 1 mg/m <sup>3</sup> Ni	IDLH: 10 mg/m <sup>3</sup> Ni TWA: 0.015 mg/m <sup>3</sup> except Nickel carbonyl Ni

Nickel (CAS #: 7440-02-0)	TWA: 0.05 mg/m <sup>3</sup> STEL: 0.05 mg/m <sup>3</sup>	STEL: 1.5 mg/m <sup>3</sup> TWA: 0.5 mg/m <sup>3</sup>	TWA: 1.5 mg/m <sup>3</sup> inhalable fraction	TWA: 1 mg/m <sup>3</sup> (vacated) TWA: 1 mg/m <sup>3</sup>	IDLH: 10 mg/m <sup>3</sup> IDLH: 10 mg/m <sup>3</sup> Ni TWA: 0.015 mg/m <sup>3</sup> TWA: 0.015 mg/m <sup>3</sup> except Nickel carbonyl Ni
Potassium hydroxide (CAS #: 1310-58-3)	Ceiling: 2 mg/m <sup>3</sup>	STEL: 2 mg/m <sup>3</sup>	Ceiling: 2 mg/m <sup>3</sup>	(vacated) Ceiling: 2 mg/m <sup>3</sup>	Ceiling: 2 mg/m <sup>3</sup>
Cadmium and compounds (as Cd) (CAS #: 7440-43-9)	TWA: 0.05 mg/m <sup>3</sup> STEL: 0.05 mg/m <sup>3</sup>	STEL: 0.075 mg/m <sup>3</sup> TWA: 0.025 mg/m <sup>3</sup>	TWA: 0.01 mg/m <sup>3</sup> TWA: 0.002 mg/m <sup>3</sup> respirable fraction TWA: 0.01 mg/m <sup>3</sup> Cd TWA: 0.002 mg/m <sup>3</sup> Cd respirable fraction	TWA: 0.1 mg/m <sup>3</sup> fume applies to any operations or sectors for which the Cadmium standard is stayed or otherwise not in effect TWA: 0.2 mg/m <sup>3</sup> dust applies to any operations or sectors for which the Cadmium standard is stayed or otherwise not in effect TWA: 5 µg/m <sup>3</sup> (vacated) STEL: 0.3 ppm fume Ceiling: 0.3 mg/m <sup>3</sup> fume applies to any operations or sectors for which the Cadmium standard is stayed or otherwise not in effect Ceiling: 0.6 mg/m <sup>3</sup> dust applies to any operations or sectors for which the Cadmium standard is stayed or otherwise not in effect	IDLH: 9 mg/m <sup>3</sup> dust IDLH: 9 mg/m <sup>3</sup> Cd dust and fume
Cobalt(II) oxide (CAS #: 1307-96-6)	TWA: 0.02 mg/m <sup>3</sup> STEL: 0.02 mg/m <sup>3</sup> STEL: 0.06 mg/m <sup>3</sup>	TWA: 0.1 mg/m <sup>3</sup>	TWA: 0.02 mg/m <sup>3</sup> Co	-	-

**Derived No Effect Level (DNEL)**

No information available

**Predicted No Effect Concentration (PNEC)**

No information available

**8.2. Exposure controls**

**Engineering Controls**

Use with local exhaust ventilation. Ensure adequate ventilation, especially in confined areas.

**Personal protective equipment**

- Eye/face protection               Wear safety glasses with side shields (or goggles)
- Hand Protection                   Wear protective gloves
- Skin and body protection       Suitable protective clothing
- Respiratory protection           In case of insufficient ventilation, wear suitable respiratory equipment

**Environmental exposure controls**

Do not allow into any sewer, on the ground or into any body of water

**SECTION 9: Physical and chemical properties**

**9.1. Information on basic physical and chemical properties**

- Appearance**   Solid
- Color**   Colorized
- Odor**    Odourless

Odor Threshold	Not determined
pH	Not determined
Melting point/freezing point	Not determined
Boiling point / boiling range	Not determined
Flash point	Not determined
Evaporation rate	Not determined
Flammability (solid, gas)	Not determined
Flammability Limit in Air	Not determined
Vapor Pressure	Not determined
Vapor density	Not determined
Density	Not determined
Relative density	Not determined
Specific gravity	Not determined
Water solubility	Not determined
Partition coefficient (LogPow)	Not determined
Autoignition temperature	Not determined
Decomposition temperature	Not determined
Kinematic viscosity	Not determined
Dynamic viscosity	Not determined
Explosive properties	Not predicted to be explosive.
Oxidizing properties	Not predicted to have oxidising properties.

**9.2. Other information**

No information available

**SECTION 10: Stability and reactivity****10.1. Reactivity**

Stable under recommended storage and handling conditions (see section 7, handling and storage).

**10.2. Chemical stability**

Stable under normal conditions.

**10.3. Possibility of hazardous reactions**

None under normal processing.

**10.4. Conditions to avoid**

Heat, flames and sparks

**10.5. Incompatible materials**

Strong oxidizing agents. Strong acids. Strong bases.

**10.6. Hazardous decomposition products**

None under normal use conditions

**SECTION 11: Toxicological information****11.1. Information on toxicological effects****Acute toxicity**

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Iron (CAS #: 7439-89-6)	98.6 g/kg bw (rat)	-	-
Cadmium oxide (CAS #: 1306-19-0)	= 72 mg/kg ( Rat )	-	= 45 mg/m <sup>3</sup> ( Rat ) 1 h
Nickel hydroxide (CAS #: 12054-48-7)	= 1515 mg/kg ( Rat )	> 2 g/kg ( Rat )	= 1200 mg/m <sup>3</sup> ( Rat ) 4 h
Nickel (CAS #: 7440-02-0)	> 9000 mg/kg ( Rat )	-	-

Potassium hydroxide (CAS #: 1310-58-3)	= 333 mg/kg (Rat)	-	-
Cadmium and compounds (as Cd) (CAS #: 7440-43-9)	= 1140 mg/kg (Rat)	-	= 25 mg/m <sup>3</sup> (Rat) 30 min
Cobalt(II) oxide (CAS #: 1307-96-6)	= 159 mg/kg (Rat) = 202 mg/kg (Rat)	-	-
Lithium hydroxide (CAS #: 1310-65-2)	= 210 mg/kg (Rat)	-	= 960 mg/m <sup>3</sup> (Rat) 4 h

**Skin corrosion/irritation**

Non-irritating to the skin.

**Serious eye damage/eye irritation**

No eye irritation.

**Sensitization**

No sensitization responses were observed.

**Germ cell mutagenicity**

No information available.

**Carcinogenicity**

Chemical Name	European Union	IARC
Cadmium oxide (CAS #: 1306-19-0)	Carc. 1B	Group 1
Nickel hydroxide (CAS #: 12054-48-7)	Carc. 1A	Group 1
Nickel (CAS #: 7440-02-0)	Carc. 2	Group 2B
Cadmium and compounds (as Cd) (CAS #: 7440-43-9)	Carc. 1B	Group 1
Cobalt(II) oxide (CAS #: 1307-96-6)	-	Group 2B

**Reproductive toxicity**

No information available.

**STOT - single exposure**

No information available.

**STOT - repeated exposure**

No information available.

**Aspiration hazard**

No information available.

**SECTION 12: Ecological information****12.1. Toxicity**

Chemical Name	Algae/aquatic plants EC50	Fish LC50	Crustacea EC50
Iron (CAS #: 7439-89-6)	-	13.6: 96 h <i>Morone saxatilis</i> mg/L LC50 static	> 100 mg/L/48h ( <i>Daphnia magna</i> )
Nickel (CAS #: 7440-02-0)	0.18 mg/L/72h <i>Pseudokirchneriella subcapitata</i> 0.174 - 0.311 mg/L/96h <i>Pseudokirchneriella subcapitata</i> static	100 mg/L/96h <i>Brachydanio rerio</i> 1.3 mg/L/96h <i>Cyprinus carpio</i> semi-static 10.4 mg/L/96h <i>Cyprinus carpio</i> static	100 mg/L/48h <i>Daphnia magna</i> 1 mg/L/48h <i>Daphnia magna</i> Static
Potassium hydroxide (CAS #: 1310-58-3)	-	80mg/L/96h <i>Gambusia affinis</i> static	-

Cadmium and compounds (as Cd) (CAS #: 7440-43-9)	-	0.003: 96 h Oncorhynchus mykiss mg/L LC50 flow-through 0.0004 - 0.003: 96 h Pimephales promelas mg/L LC50 0.006: 96 h Oncorhynchus mykiss mg/L LC50 static 0.002: 96 h Cyprinus carpio mg/L LC50 4.26: 96 h Cyprinus carpio mg/L LC50 semi-static 0.24: 96 h Cyprinus carpio mg/L LC50 static 21.1: 96 h Lepomis macrochirus mg/L LC50 flow-through 0.016: 96 h Oryzias latipes mg/L LC50	0.0244: 48 h Daphnia magna mg/L EC50 Static
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**12.2. Persistence and degradability**

No information available.

**12.3. Bioaccumulative potential**

Chemical Name	Partition coefficient (LogPow)
Potassium hydroxide (CAS #: 1310-58-3)	0.65 0.83

**12.4. Mobility in soil**

No information available

**12.5. Results of PBT and vPvB assessment**

PBT/vPvB assessment information is not available as chemical safety assessment not conducted.

**12.6. Other adverse effects**

No information available

**SECTION 13: Disposal considerations****13.1. Waste treatment methods**

Waste from residues/unused products	Disposal should be in accordance with applicable regional, national and local laws and regulations
Contaminated packaging	Disposal should be in accordance with applicable regional, national and local laws and regulations

**SECTION 14: Transport information**

14.1 UN Number	Not regulated
14.2 Proper shipping name	Not regulated
14.3 Hazard Class	Not regulated
14.4 Packing Group	Not regulated
14.5 Environmental hazards	Not applicable
14.6 Special precautions	No information available
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable



**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**  
**European Union**

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

Take note of Directive 94/33/EC on the protection of young people at work

Take note of Directive 92/85/EC on the protection of pregnant and breastfeeding women at work

**International Inventories**

Component	TSCA	DSL/NDSL	EINECS/ELI NCS	ENCS	IECSC	KECL	PICCS	AICS
Iron 7439-89-6 ( 34.4 )	X	X	X	-	X	X	X	X
Cadmium oxide 1306-19-0 ( 28.3 )	X	X	X	X	X	X	X	X
Nickel hydroxide 12054-48-7 ( 18.9 )	X	X	X	X	X	X	X	X
Nickel 7440-02-0 ( 5.9 )	X	X	X	-	X	X	X	X
Potassium hydroxide 1310-58-3 ( 3.7 )	X	X	X	X	X	X	X	X
Cadmium and compounds (as Cd) 7440-43-9 ( 3.3 )	X	X	X	-	X	X	X	X
Cobalt(II) oxide 1307-96-6 ( 2.5 )	X	X	X	X	X	X	X	X
Lithium hydroxide 1310-65-2 ( 0.3 )	X	X	X	X	X	X	X	X

"-" Not Listed

"X" Listed

**15.2. Chemical safety assessment**

No information available

**SECTION 16: Other information**

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

**Issue Date** 08-Jun-2015  
**Revision date** 13-Jul-2015  
**Revision Note** Not applicable

**Key or legend to abbreviations and acronyms used in the safety data sheet**

**TWA** - TWA (time-weighted average)

**STEL** - STEL (Short Term Exposure Limit)

**Ceiling** - Maximum limit value

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

**PICCS** - Philippines Inventory of Chemicals and Chemical Substances

**AICS** - Australian Inventory of Chemical Substances

**Full text of H-Statements referred to under section 3**

- 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.
- H400: Very toxic to aquatic life.
- H410: Very toxic to aquatic life with long lasting effects.
- H412: Harmful to aquatic life with long lasting effects.

**Disclaimer**

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

----- End of Safety Data Sheet -----