Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2015/830 - Ireland

Date Version : 15/03/2016

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# **SAFETY DATA SHEET**

Li-ion battery pack (Li-ion batteries) BA2800 56v 5.0Ah 280Wh

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

1.1 Product identifier Product name	<ul> <li>Li-ion battery pack (Li-ion batteries) BA2800 56v 5.0Ah 280Wh</li> <li>Not available.</li> </ul>
	: Not available.
Product code	
Product description	This product is non-hazardous for workers under normal conditions of use. This SDS is written based on a possible contact of the user with the inner electrolyte solution contained in the battery, in the course of a misuse or an accident.
Product type	: Solid.
Other means of identification	: Not available.
1.2 Relevant identified uses	s of the substance or mixture and uses advised against
Identified uses	: Not available.
1.3 Details of the supplier of	of the safety data sheet
Supplier's details	<ul> <li>Nanjing Chervon Industry Co., Ltd 159 South Jiang-jun Rd. Jiangning Economic &amp; Technical Development Zone Nanjing, Jiangsu 211106 P. R. China Tel: +86 25 5278 8491 Fax: +86 25 5210 1166</li> </ul>
e-mail address of person responsible for this SDS	: Ada.j.song@chervon.com.cn

1.4 Emergency telephone number				
National advisory body/P	oison Centre			
Telephone number	: +86 25 5278 6666			
Hours of operation	: 24/7			

### **SECTION 2: Hazards identification**

### 2.1 Classification of the substance or mixture

Product definition : Mixture

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

Skin Irrit. 2, H315 Eye Irrit. 2, H319

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

### 2.2 Label elements

<b>SECTION 2: Hazards</b>	dentification
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Hazard pictograms	
Signal word	: Warning
Hazard statements	: H319 - Causes serious eye irritation. H315 - Causes skin irritation.
Precautionary statements	
Prevention	<ul> <li>P280 - Wear protective gloves. Wear eye or face protection.</li> <li>P264 - Wash hands thoroughly after handling.</li> </ul>
Response	: P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Storage	: Not applicable.
Disposal	: Not applicable.
Hazardous ingredients	: Poly[imino(1-oxo-1,6-hexanediyl)]
Supplemental label elements	: Not applicable.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	: Not applicable.
Special packaging requirem	ents
Containers to be fitted with child-resistant fastenings	: Not applicable.
Tactile warning of danger	: Not applicable.
2.3 Other hazards	
Other bazards which do	

Other hazards which do : None known. not result in classification

### **SECTION 3: Composition/information on ingredients**

3.1 Mixtures	: Mixture			
Product/ingredient name	Identifiers	%	<u>Classification</u> Regulation (EC) No. 1272/2008 [CLP]	Туре
Poly[imino(1-oxo-1,6-hexanediyl)] Aluminium	CAS: 25038-54-4 EC: 231-072-3 CAS: 7429-90-5 Index: 013-002-00-1	≥50 - ≤75 ≥25 - ≤50	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Flam. Sol. 1, H228 Pyr. Sol. 1, H250 Water-react. 2, H261	[1] [2]
Nickel Copper	EC: 231-111-4 CAS: 7440-02-0 EC: 231-159-6 CAS: 7440-50-8	≥25 - ≤50 ≥25 - ≤50	Not classified.	[2] [2]

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

### **SECTION 3: Composition/information on ingredients**

### Туре

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

[3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII

[4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

[5] Substance of equivalent concern

Occupational exposure limits, if available, are listed in Section 8.

### **SECTION 4: First aid measures**

4.1 Description of first aid r	neasures
Eye contact	: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 20 minutes. Get medical attention.
Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Skin contact	<ul> <li>Flush contaminated skin with plenty of water. Continue to rinse for at least 20 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.</li> </ul>
Ingestion	: Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

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

Potential acute health effects	
Eye contact	Causes serious eye irritation.
Inhalation	No known significant effects or critical hazards.
Skin contact	Causes skin irritation.
Ingestion	No known significant effects or critical hazards.
Over-exposure signs/sympton	<u>ms</u>
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: No known significant effects or critical hazards.

Skin contact	:	Adverse symptoms may include the following: irritation redness
Ingestion	:	No known significant effects or critical hazards.

Notes to physician	1	The exposed person may need to be kept under medical surveillance for 48 hours.
Specific treatments	:	No specific treatment.

### **SECTION 5: Firefighting measures**

5.1 Extinguishing media	
Suitable extinguishing media	: Use dry chemical, CO <sub>2</sub> or foam.
Unsuitable extinguishing media	: None known.
5.2 Special hazards arising	from the substance or mixture
Hazards from the	: Fire water contaminated with this material must be contained and prevented from

Hazards from the substance or mixture	-	Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Hazardous thermal decomposition products	:	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides metal oxide/oxides
5.3 Advice for firefighters		
Special protective actions for fire-fighters	1	No special measures are required.
Special protective equipment for fire-fighters	:	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

### **SECTION 6: Accidental release measures**

6.1 Personal precautions, pro	te	ctive equipment and emergency procedures
For non-emergency personnel	:	No action shall be taken involving any personal risk or without suitable training. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	:	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
6.2 Environmental precautions	:	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.

### **SECTION 6: Accidental release measures**

#### 6.3 Methods and material for containment and cleaning up Small spill : Move containers from spill area. Avoid dust generation. Using a vacuum with HEPA filter will reduce dust dispersal. Place spilt material in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor. : Move containers from spill area. Approach the release from upwind. Prevent entry Large spill into sewers, water courses, basements or confined areas. Avoid dust generation, Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Dispose of via a licensed waste disposal contractor. 6.4 Reference to other : See Section 1 for emergency contact information. sections See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

### **SECTION 7: Handling and storage**

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

#### 7.1 Precautions for safe handling

Protective measures	: Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid release to the environment. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
Advice on general occupational hygiene	: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. See also Section 8 for additional information on hygiene measures. Remove contaminated clothing and protective equipment before entering eating areas.

### 7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

### Seveso Directive - Reporting thresholds (in tonnes)

Danger criteria		
Category	Notification and MAPP threshold	Safety report threshold
C2: Toxic	50	200

### 7.3 Specific end use(s)

Recommendations Industrial sector specific solutions

- : Not available.
- : Not available.



### **SECTION 8: Exposure controls/personal protection**

The information in this section contains generic advice and guidance. Information is provided based on typical anticipated uses of the product. Additional measures might be required for bulk handling or other uses that could significantly increase worker exposure or environmental releases.

### 8.1 Control parameters

#### **Occupational exposure limits**

Product/ingredient name	Exposure limit values
Aluminium	NAOSH (Ireland, 12/2011). OELV-8hr: 5 mg/m <sup>3</sup> 8 hours. Form: Fertilizer and/or industrial use. OELV-8hr: 10 mg/m <sup>3</sup> 8 hours. Form: Inhalable fraction
Nickel	OELV-8hr: 1 mg/m <sup>3</sup> 8 hours. Form: Respirable dust <b>NAOSH (Ireland, 12/2011).</b> OELV-8hr: 0.5 mg/m <sup>3</sup> 8 hours.
Copper	NAOSH (Ireland, 12/2011). OELV-15min: 2 mg/m <sup>3</sup> , (as Cu) 15 minutes. Form: Dusts and mists OELV-8hr: 1 mg/m <sup>3</sup> , (as Cu) 8 hours. Form: Dusts and mists OELV-8hr: 0.2 mg/m <sup>3</sup> , (as Cu) 8 hours. Form: Fertilizer and/or industrial use.
procedures atmospher of the vent	uct contains ingredients with exposure limits, personal, workplace e or biological monitoring may be required to determine the effectiveness ilation or other control measures and/or the necessity to use respiratory

of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

#### **DNELs/DMELs**

No DNELs/DMELs available.

#### **PNECs**

No PNECs available

#### 8.2 Exposure controls

Appropriate engineering controls	ood general ventilation should be sufficient to control worker exposur ntaminants.	e to airborne
Individual protection measu		
Hygiene measures	ash hands, forearms and face thoroughly after handling chemical pro fore eating, smoking and using the lavatory and at the end of the wo propriate techniques should be used to remove potentially contamin ash contaminated clothing before reusing. Ensure that eyewash stat fety showers are close to the workstation location.	rking period. ated clothing.
Eye/face protection	fety eyewear complying with an approved standard should be used v sessment indicates this is necessary to avoid exposure to liquid spla ses or dusts. If contact is possible, the following protection should b less the assessment indicates a higher degree of protection: chemic ggles.	shes, mists, e worn,
Skin protection		

### **SECTION 8: Exposure controls/personal protection**

Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
Body protection	<ul> <li>Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.</li> </ul>
Other skin protection	: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.
Environmental exposure controls	: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

## **SECTION 9: Physical and chemical properties**

### 9.1 Information on basic physical and chemical properties

<u>Appearance</u>	
Physical state	: Solid. [Battery pack.]
Colour	: Green and Black. Plastics cement shell.
Odour	: Odourless.
Odour threshold	: Not available.
рН	: Not available.
Melting point/freezing point	: >300°C
Initial boiling point and boiling range	: Not available.
Flash point	: Not available.
Evaporation rate	: Not available.
Flammability (solid, gas)	: Extremely flammable in the presence of the following materials or conditions: heat.
Upper/lower flammability or explosive limits	: Not available.
Vapour pressure	: Not available.
Vapour density	: Not available.
Relative density	: Not available.
Solubility(ies)	: Partially soluble in the following materials: cold water and hot water.
Partition coefficient: n-octanol/ water	: Not available.
Auto-ignition temperature	: Not available.
Decomposition temperature	: Not available.
Viscosity	: Not available.

### **SECTION 9: Physical and chemical properties**

**Explosive properties** 

: Extremely explosive in the presence of the following materials or conditions: heat.

**Oxidising properties** 

: Not available.

### 9.2 Other information

No additional information.

SECTION 10: Stability and reactivity		
10.1 Reactivity	: No specific test data related to reactivity available for this product or its ingredients.	
10.2 Chemical stability	: The product is stable.	
10.3 Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.	
10.4 Conditions to avoid	: Keep away from heat and flame.	
10.5 Incompatible materials	: Reactive or incompatible with the following materials: oxidising materials, acids and alkalis.	
10.6 Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.	

### **SECTION 11: Toxicological information**

11.1 Information on toxicologica	al effects
Acute toxicity	
There is no data available.	
Irritation/Corrosion	
There is no data available.	
<u>Sensitisation</u>	
There is no data available.	
<u>Mutagenicity</u>	
There is no data available.	
<b>Carcinogenicity</b>	
There is no data available.	
Reproductive toxicity	
There is no data available.	
Teratogenicity	
There is no data available.	
Specific target organ toxicity (s	single exposure)
There is no data available.	
Specific target organ toxicity (r	<u>repeated exposure)</u>
There is no data available.	
Aspiration hazard	
There is no data available.	
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### **SECTION 11: Toxicological information**

Information on likely routes of exposure	: Dermal contact. Eye contact. Inhalation. Ingestion.
Potential acute health effects	
Eye contact	: Causes serious eye irritation.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: Causes skin irritation.
Ingestion	: No known significant effects or critical hazards.
Symptoms related to the phy Eye contact	<ul> <li>sical, chemical and toxicological characteristics</li> <li>Adverse symptoms may include the following: pain or irritation watering redness</li> </ul>
Inhalation	: No known significant effects or critical hazards.
Skin contact	: Adverse symptoms may include the following: irritation redness
Ingestion	: No known significant effects or critical hazards.
Delayed and immediate offer	to as well as obvious offects from short and long term

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

<u>Short term exposure</u>			
Potential immediate effects	: No known significant effects or critical hazards.		
Potential delayed effects	: No known significant effects or critical hazards.		
<u>Long term exposure</u>			
Potential immediate effects	: No known significant effects or critical hazards.		
Potential delayed effects	: No known significant effects or critical hazards.		
Potential chronic health effects			
General	: No known significant effects or critical hazards.		
Carcinogenicity	: No known significant effects or critical hazards.		
Mutagenicity	: No known significant effects or critical hazards.		
Teratogenicity	: No known significant effects or critical hazards.		
Developmental effects	: No known significant effects or critical hazards.		
Fertility effects	: No known significant effects or critical hazards.		

### **Other information** : Not available.

## SECTION 12: Ecological information

### 12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
	Acute LC50 38000 μg/L Acute LC50 120 μg/L Fresh water Chronic NOEC 9 mg/L Fresh water	Daphnia - Daphnia magna Fish - Oncorhynchus mykiss - Embryo Aquatic plants - Ceratophyllum demersum	48 hours 96 hours 3 days

### **SECTION 12: Ecological information**

#### 12.2 Persistence and degradability

There is no data available.

#### 12.3 Bioaccumulative potential

There is no data available.

12.4 Mobility in soil	
Soil/water partition coefficient (Koc)	: Not available.
Mobility	: Not available.

12.5 Results of PBT	and vPvB assessment
PBT	: Not applicable.

- vPvB : Not applicable.
- 12.6 Other adverse effects

: No known significant effects or critical hazards.

### **SECTION 13: Disposal considerations**

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

#### **13.1 Waste treatment methods**

Product	
Methods of disposal	: The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.
Hazardous waste	: The classification of the product may meet the criteria for a hazardous waste.
Packaging	
Methods of disposal	: The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.
Special precautions	: This material and its container must be disposed of in a safe way. Care should be taken when handling empty containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

### **SECTION 14: Transport information**

	ADR/RID	ADN	IMDG	ΙΑΤΑ
14.1 UN number	UN3480	UN3480	UN3480	UN3480
14.2 UN proper shipping name	LITHIUM ION BATTERIES (including lithium ion polymer batteries)	LITHIUM ION BATTERIES (including lithium ion polymer batteries)	LITHIUM ION BATTERIES (including lithium ion polymer batteries). Marine pollutant	LITHIUM ION BATTERIES (including lithium ion polymer batteries)



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SECTION 14: Transport information				
14.3 Transport hazard class(es)	9	9	9	9
14.4 Packing group	11	11	II	II
14.5 Environmental hazards	No.	No.	Yes.	No.
Additional information	-	-	The marine pollutant mark is not required when transported in sizes of $\leq 5$ L or $\leq 5$ kg.	The environmentally hazardous substance mark may appear if required by other transportation regulations.

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user
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14.6 Special precautions for : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

### **SECTION 15: Regulatory information**

#### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture EU Regulation (EC) No. 1907/2006 (REACH) Annex XIV - List of substances subject to authorisation Annex XIV None of the components are listed. Substances of very high concern None of the components are listed. Annex XVII - Restrictions : Not applicable. on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles **Other EU regulations** : Not determined. **Europe inventory Priority List Chemicals** : Not determined (793/93/EEC) Industrial emissions : Listed (integrated pollution prevention and control) -Air Industrial emissions : Listed (integrated pollution prevention and control) -Water **Seveso Directive**

This product is not controlled under the Seveso Directive.

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### **SECTION 15: Regulatory information**

Danger criteria	
Category	
C2: Toxic	

# **15.2 Chemical safety**<br/>assessment: This product contains substances for which Chemical Safety Assessments are still<br/>required.

### **SECTION 16: Other information**

Abbreviations and acronyms	: ATE = Acute Toxicity Estimate CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
	DMEL = Derived Minimal Effect Level
	DNEL = Derived No Effect Level
	EUH statement = CLP-specific Hazard statement
	PBT = Persistent, Bioaccumulative and Toxic
	PNEC = Predicted No Effect Concentration
	RRN = REACH Registration Number
	vPvB = Very Persistent and Very Bioaccumulative

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification		ion	Justification	
Skin Irrit. 2, H315 Eye Irrit. 2, H319			Calculation method Calculation method	
Full text of abbreviated H statements	:	H315 H319	Causes skin irritation. Causes serious eye irritation.	
Full text of classifications [CLP/GHS]	:	Eye Irrit. 2, H319 Skin Irrit. 2, H315	SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2 SKIN CORROSION/IRRITATION - Category 2	
History		L		

History

Date of issue	(dd/mm/yyyy)	1	15/03/2016
Version		1	1

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

