



# SAFETY DATA SHEET

For

BYD COMPANY LIMITED

Yan An Road, Kuichong Longgang Shenzhen

And for their product

Rechargeable Lithium-ion battery

**Model/type reference** ..... : S07-LI-222-3000

**Nominal Voltage** ..... : 22.2V

**Typical Capacity** ..... : 3000mAh (66.6Wh)

**Version number** ..... : V2.0

**Revision date** ..... : 22-January-2018

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Prepared by ..... : **Shenzhen NTEK Testing Technology Co., Ltd.**  
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## Section 1- Identification of the Substance/Preparation and of the Company/Undertaking

**Product Identifier**

**Product Name:** Rechargeable Lithium-ion battery

**Model No.:** S07-LI-222-3000

**Other means of identification**

**Synonyms:** None

**Recommended use of the chemical and restrictions on use**

**Recommended Use:** LITHIUM ION BATTERIES

**Uses advised against:** No information available

**Details of the supplier of the safety data sheet**

**Manufacturer's/ Supplier Name:** BYD COMPANY LIMITED

**Address:** Yan An Road, Kuichong Longgang Shenzhen

**Telephone number of the manufacturer/supplier:** +86-755-89888888

**Emergency Telephone Number (24h):** +86-755-89888888

**E-mail address:** Xiao.peng2@byd.com

## Section 2 – Hazards Identification

**Classification**

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200) this product is an article which is a sealed battery and as such does not require an MSDS per the OSHA hazard communication standard unless ruptured. The hazards indicated are for a ruptured battery.

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2
Skin sensitization	Category 1
Specific target organ toxicity (repeated exposure)	Category 1


**GHS Label elements, including precautionary statements**

**Emergency Overview**

**Signal word:** Danger

**Hazard Statements**

- Causes skin irritation
- Causes serious eye irritation
- May cause an allergic skin reaction
- May cause cancer





### Section 3 – Composition/Information on Ingredients

Chemical Name	CAS Number	Weight-%	Trade Secret
Cobalt lithium manganese nickel oxide	346417-97-8	55	
2,5-Furandione, polymer with 1,3-butadiene and ethenylbenzene	27288-99-9	1	
1,1-Difluoroethylene polymer	24937-79-9	2	
Aluminum foil	7429-90-5	5	
Copper	7440-50-8	5	
Carbon	7440-44-0	20	
Ethylene carbonate	96-49-1	10	
Lithium hexafluorophosphate	21324-40-3	2	

\* The exact percentage (concentration) of composition has been withheld as a trade secret.

### Section 4 – First-aid Measures

<b>General Advice</b>	<p>First aid is upon rupture of sealed battery.</p> <p><b>Eye contact:</b> If symptoms persist, call a physician. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Remove contact lenses, if present and easy to do. Continue rinsing. Do not rub affected area.</p> <p><b>Skin contact:</b> Wash off immediately with soap and plenty of water for at least 15 minutes. In the case of skin irritation or allergic reactions see a physician. May cause an allergic skin reaction.</p> <p><b>Inhalation:</b> Remove to fresh air. If symptoms persist, call a physician. Get medical attention immediately if symptoms occur.</p> <p><b>Ingestion:</b> Do NOT induce vomiting. Rinse mouth immediately and drink plenty of water. Never give anything by mouth to an unconscious person. Call a physician.</p> <p><b>Self-protection of the first aider:</b> Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Wear personal protective clothing (see section 8).</p>
<b>Most important symptoms and effects, both acute and delayed</b>	<b>Most important symptoms and effects:</b> Itching. Coughing and/ or wheezing.
<b>Indication of any immediate medical</b>	<b>Notes to Physician:</b> Treat symptomatically. May cause sensitization of susceptible persons.

attention and special treatment needed	
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## Section 5 – Fire-fighting Measures

<b>Suitable extinguishing Media</b>	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
<b>Unsuitable extinguishing Media</b>	CAUTION: Use of water spray when fighting fire may be inefficient.
<b>Specific Hazards arising from the chemical</b>	Product is or contains a sensitizer. May cause sensitization by skin contact.
<b>Hazardous Combustion Products</b>	Carbon oxides.
<b>Explosion Data</b>	<b>Sensitivity to Mechanical Impact:</b> No. <b>Sensitivity to Static Discharge:</b> No.
<b>Protective Equipment and precautions for firefighters</b>	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## Section 6 – Accidental Release Measures

<b>Personal Precautions, protective equipment, and emergency procedures</b>	<b>Personal Precautions:</b> Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. <b>Other Information:</b> Refer to protective measures listed in Sections 7 and 8.
<b>Environmental Precautions</b>	Refer to protective measures listed in Sections 7 and 8. Prevent further leakage or spillage if safe to do so.
<b>Methods and material for containment and cleaning up</b>	<b>Methods for Containment:</b> Prevent further leakage or spillage if safe to do so. <b>Methods for cleaning up:</b> Pick up and transfer to properly labeled containers.

## Section 7 – Handling and Storage

<b>Precautions for safe handling</b>	<b>Handling:</b> In case of rupture. Use personal protection equipment. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Do not breathe dust/fume/gas/mist/vapors/spray.
<b>Conditions for safe</b>	<b>Storage:</b> Keep containers tightly closed in a dry, cool and well-ventilated

<b>storage, including any incompatibilities</b>	place. <b>Incompatible Products:</b> Strong acids. Strong oxidizing agents. Strong bases.
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## Section 8 – Exposure Controls and Personal Protection

**Control parameters**

**Exposure Guidelines**

<b>Chemical Name</b>	<b>ACGIH TLV</b>	<b>OSHA PEL</b>	<b>NIOSH IDLH</b>
Cobalt lithium manganese nickel oxide 346417-97-8	TWA: 0.02 mg/m <sup>3</sup>		
Copper 7440-50-8	TWA: 0.2 mg/m <sup>3</sup> fume TWA: 1 mg/ mg/m <sup>3</sup> Cu dust and mist	TWA: 0.1 mg/m <sup>3</sup> fume TWA: 1 mg/m <sup>3</sup> dust and mist (vacated) TWA: 0.1 mg/m <sup>3</sup> Cu dust, fume, mist	IDLH: 100 mg/m <sup>3</sup> dust, fume and mist TWA: 1 mg/m <sup>3</sup> dust and mist TWA: 0.1 mg/m <sup>3</sup> fume
Aluminum foil 7429-90-5	TWA: 1 mg/m <sup>3</sup> respirable fraction	TWA: 15 mg/m <sup>3</sup> total dust TWA: 5 mg/m <sup>3</sup> respirable fraction (vacated) TWA: 15 mg/m <sup>3</sup> total dust (vacated) TWA: 5 mg/m <sup>3</sup> respirable fraction (vacated) TWA: 5 mg/m <sup>3</sup> Aluminum	TWA: 10 mg/m <sup>3</sup> total dust TWA: 5 mg/m <sup>3</sup> respirable dust
Phosphate(1-), hexafluoro-, lithium 21324-40-3	TWA: 2.5 mg/m <sup>3</sup> F	TWA: 2.5 mg/m <sup>3</sup> F TWA: 2.5 mg/m <sup>3</sup> dust (vacated) TWA: 2.5 mg/m <sup>3</sup>	

\*ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value  
 OSHA PEL: Occupational Safety and Health Administration - Permissible Exposure Limits  
 NIOSH IDLH Immediately Dangerous to Life or Health

**Other Exposure Guidelines**

Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992) See section 15 for national exposure control parameters

<b>Appropriate engineering controls</b>	<b>Engineering Measures:</b> Showers Eyewash stations
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	Ventilation systems.
<b>Individual protection measures, such as personal protective equipment</b>	<p><b>Eye/Face Protection:</b> If splashes are likely to occur. Wear safety glasses with side shields (or goggles). None required for consumer use.</p> <p><b>Skin and Body Protection:</b> Wear protective gloves and protective clothing. Long sleeved clothing. Impervious gloves.</p> <p><b>Respiratory Protection:</b> No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.</p> <p><b>Hygiene Measures:</b> Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Wash hands before breaks and immediately after handling the product.</p>

## Section 9 - Physical and Chemical Properties

<b>Physical Properties</b>	<b>Physical state:</b> Solid	
	<b>Appearance:</b> Blue and Prismatic	
	<b>Color:</b> Blue	
	<b>Odor:</b> Odorless	
	<b>Odor Threshold:</b> No information available	
<b>Chemical Properties:</b>		
<b>Property</b>	<b>Values</b>	<b>Remarks/ Method</b>
<b>pH</b>	No data available	None known
<b>Melting / freezing point</b>	No data available	None known
<b>Boiling point / boiling range</b>	No data available	None known
<b>Flash Point</b>	No data available	None known
<b>Evaporation Rate</b>	No data available	None known
<b>Flammability (solid, gas)</b>	No data available	None known
<b>Flammability Limit in Air</b>		
<b>Upper flammability limit</b>	No data available	
<b>Lower flammability limit</b>	No data available	
<b>Vapor pressure</b>	No data available	None known
<b>Vapor density</b>	No data available	None known
<b>Specific Gravity</b>	No data available	None known



<b>Water Solubility</b>	Insoluble in water	None known
<b>Solubility in other solvents</b>	No data available	None known
<b>Partition coefficient: n-octanol/water</b>	0.00001	None known
<b>Autoignition temperature</b>	130°C	None known
<b>Decomposition temperature</b>	No data available	None known
<b>Kinematic viscosity</b>	No data available	None known
<b>Dynamic viscosity</b>	0.00001	None known
<b>Explosive properties</b>	No data available	
<b>Oxidizing Properties</b>	No data available	

#### Other Information

<b>Softening Point</b>	No data available
<b>VOC Content (%)</b>	No data available
<b>Particle Size</b>	No data available
<b>Particle Size Distribution</b>	No data available

## Section 10 - Stability and Reactivity

<b>Reactivity</b>	No data available.
<b>Chemical stability</b>	Stable under recommended storage conditions.
<b>Possibility of Hazardous Reactions</b>	None under normal processing.
<b>Hazardous Polymerization</b>	Hazardous polymerization does not occur.
<b>Conditions to avoid</b>	None known based on information supplied.
<b>Incompatible materials</b>	Strong acids. Strong oxidizing agents. Strong bases.
<b>Hazardous Decomposition Products</b>	Carbon oxides.

## Section 11 - Toxicological Information

#### Information on likely routes of exposure

<b>Product Information</b>	Product does not present an acute toxicity hazard based on known or supplied information. In case of rupture:.
<b>Inhalation</b>	Specific test data for the substance or mixture is not available. May cause irritation of respiratory tract.
<b>Eye Contact</b>	Specific test data for the substance or mixture is not available. Expected to be an irritant based on components. Irritating to eyes. May cause redness, itching, and pain. May cause temporary eye irritation.
<b>Skin Contact</b>	Specific test data for the substance or mixture is not available. Expected to be an irritant based on components. Irritating to skin.





	Prolonged contact may cause redness and irritation.
<b>Ingestion</b>	Specific test data for the substance or mixture is not available. Ingestion may cause irritation to mucous membranes. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

<b>Information on toxicological effects</b>	<b>Symptoms:</b> Erythema (skin redness). May cause redness and tearing of the eyes. Itching. Rashes. Hives.
<b>Delayed and immediate effects as well as chronic effects from short and long-term exposure</b>	<b>Sensitization:</b> May cause sensitization of susceptible persons. May cause sensitization by skin contact. <b>Mutagenic Effects:</b> No information available. <b>Carcinogenicity:</b> The table below indicates whether each agency has listed any ingredient as a carcinogen

Chemical Name	ACGIH	IARC	NTP	OSHA
Cobalt lithium manganese nickel oxide 346417-97-8	A3	Group 1 Group 2B	Known	X

<p><b>ACGIH (American Conference of Governmental Industrial Hygienists)</b> A1 - Known Human Carcinogen A3 - Animal Carcinogen</p> <p><b>IARC (International Agency for Research on Cancer)</b> Group 1 - Carcinogenic to Humans Group 2B - Possibly Carcinogenic to Humans Group 3 - Not Classifiable as to Carcinogenicity in Humans</p> <p><b>NTP (National Toxicology Program)</b> Known - Known Carcinogen</p> <p><b>OSHA (Occupational Safety and Health Administration of the US Department of Labor)</b> X - Present</p>
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<b>Reproductive Toxicity</b>	No information available.
<b>STOT - single exposure</b>	No information available.
<b>STOT - repeated exposure</b>	Causes damage to organs through prolonged or repeated exposure. Based on classification criteria from the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200), this product has been determined to cause systemic target organ toxicity from chronic or repeated exposure. (STOT RE).
<b>Chronic Toxicity</b>	Contains a known or suspected carcinogen. Avoid repeated exposure. Prolonged exposure may cause chronic effects. May cause adverse liver effects.

<b>Target Organ Effects</b>	Respiratory system. Eyes. Skin. Gastrointestinal tract (GI). Central Vascular System (CVS).Kidney. Liver. Lungs. Heart.
<b>Aspiration Hazard</b>	No information available.

**Numerical measures of toxicity Product Information**

The values which are on the right are calculated based on chapter 3.1 of the GHS document.	<b>ATEmix (oral)</b> <b>ATEmix (dermal)</b> <b>ATEmix (inhalation-dust/mist)</b>
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## Section 12 - Ecological Information

**Ecotoxicity**

Very toxic to aquatic life with long lasting effects.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Copper 7440-50-8	96h EC50: 0.031 - 0.054 mg/L (Pseudokirchneriella subcapitata) 72h EC50: 0.0426 - 0.0535 mg/L (Pseudokirchneriella subcapitata)	96h LC50: 0.0068 - 0.0156 mg/L (Pimephales promelas) 96h LC50: = 0.112 mg/L (Poecilia reticulata) 96h LC50: = 0.3 mg/L (Cyprinus carpio) 96h LC50: = 0.8 mg/L (Cyprinus carpio) 96h LC50: = 1.25 mg/L (Lepomis macrochirus) 96h LC50: = 0.052 mg/L (Oncorhynchus mykiss) 96h LC50: = 0.2 mg/L (Pimephales promelas) 96h LC50: < 0.3 mg/L (Pimephales promelas)		48h EC50: = 0.03 mg/L

<b>Persistence and Degradability</b>	No information available.
<b>Bioaccumulation</b>	No information available
<b>Other adverse effects</b>	No information available.

## Section 13 – Disposal Considerations

**Waste treatment methods**

**Disposal methods:** This material, as supplied, is not a hazardous waste according to Federal regulations (40CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered



material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.

**Contaminated Packaging:** Dispose of in accordance with federal, state and local regulations. No information available.

**California Hazardous Waste Codes 141**

This product contains one or more substances that are listed with the State of California as a hazardous waste.

Chemical Name	California Hazardous Waste
Cobalt lithium manganese nickel oxide 346417-97-8	Toxic
Aluminum foil 7429-90-5	Ignitable powder
Copper 7440-50-8	Toxic

## Section 14 – Transport Information

The Rechargeable Lithium-ion battery as stated in Appendix is made in compliance to the requirements stated in the latest edition of the IATA Dangerous Goods Regulations Packing Instruction 965 section I B. However, if those Li-Ion batteries are packed with or contained in an equipment, then it is the responsibility of the shipper to ensure that the consignment are packed in compliance to the latest edition of the IATA Dangerous Goods Regulations section II of either Packing Instruction 966 or 967.

With regard to transport, the following regulations are cited and considered:

- The International Civil Aviation Organization (ICAO) Technical Instructions, Packing instruction 965 section IB (2018-2019 Edition).
- The International Air transport Association (IATA) Dangerous Goods Regulations, Packing instruction 965 section IB (59<sup>th</sup> Edition, 2018).
- Special provision 188 of the International Maritime Dangerous Goods (IMDG) Code (Amendment 38-16 Edition).
- The US Hazardous Materials Regulation 49 CFR (Code of Federal Regulations), sections 173-185 Lithium batteries and cells.
- The UN Recommendations on the Transport of Dangerous Goods, Manual of Tests and Criteria 38.3 Lithium batteries, Rev.6.

These products are properly classified, described, packaged, marked, and labeled, and are in proper condition for transportation according to all the applicable international and national governmental regulations, not limited to the above mentioned. We further certify that the enclosed products have been tested and fulfilled the requirements and conditions in accordance with UN Recommendations (T1 – T8) on the Transport of Dangerous Goods Model Regulations and the Manual of Tests and Criteria.

**Test results of the UN Recommendation on the Transport of Dangerous Goods**

<b>Manual of Test and Criteria (38.3 Lithium battery)</b>			
<b>No.</b>	<b>Test items</b>	<b>Test results</b>	<b>Remark</b>
T1	Altitude simulation	Pass	
T2	Thermal test	Pass	
T3	Vibration	Pass	
T4	Shock	Pass	
T5	External short circuit	Pass	
T6	Impact / Crush	Pass	
T7	Overcharge	Pass	
T8	Forced discharge	Pass	

**Additional Requirements for air transport:**

1. Cells and batteries must be protected so as to prevent short circuits. This includes protection against contact with conductive materials within the same packaging that could lead to a short circuit.
2. Cells and batteries must be manufactured under a quality management program.
3. The Watt-hour rating must be marked on the outside of the battery case except those manufactured before 1 January 2009.
4. Cells and batteries must be packed in strong outer packagings.
5. Cells and batteries must be packed in inner packagings that completely enclose the cell or battery. To provide protection from damage or compression to the batteries, the inner packagings must be placed in a strong rigid outer packaging of one of the packaging types shown below.
6. Each consignment must be accompanied with a document with an indication that:
  - the package contains lithium ion cells or batteries;
  - the package must be handled with care and that a flammability hazard exists if the package is damaged;
  - special procedures must be followed in the event the package is damaged, to include inspection and repacking if necessary; and
  - a telephone number for additional information.
7. Each package must be labelled with a lithium battery handling label (Figure 7.4.H) in addition to the Class 9 hazard label (Figure 7.3.W) and Cargo Aircraft Only label. Each package must be marked in accordance with the requirements of 7.1.4.1(a) and (b) and in addition the net weight when required by 7.1.4.1(c) must be marked on the package.
8. Each package must be capable of withstanding a 1.2 m drop test in any orientation without:
  - damage to cells or batteries contained therein;
  - shifting of the contents so as to allow battery to battery (or cell to cell) contact;
  - release of contents.
9. Any person preparing or offering cells or batteries for transport must receive adequate instruction on these requirements commensurate with their responsibilities.

**Section 15 - Regulatory Information**

**International Inventories**

TSCA: Complies

DSL: All components are listed either on the DSL or NDSL.

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List**US Federal Regulations****SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical Name	CAS No	Weight-%	SARA 313 - Threshold Values %
Cobalt lithium manganese nickel oxide	346417-97-8	55	1.0 0.1
Aluminum foil	7429-90-5	5	1.0
Copper	7440-50-8	5	1.0

**SARA 311/312 Hazard Categories**

<b>Acute Health Hazard</b>	No
<b>Chronic Health Hazard</b>	No
<b>Fire Hazard</b>	No
<b>Sudden release of pressure hazard</b>	No
<b>Reactive Hazard</b>	No

**CWA (Clean Water Act)**

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Copper 7440-50-8		X	X	
Cobalt lithium manganese nickel oxide 346417-97-8		X		

**CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	RQ
Copper 7440-50-8	5000 lb		RQ 5000 lb final RQ RQ 2270 kg final RQ
Aluminum foil			



7429-90-5			
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**US State Regulations****California Proposition 65**

This product contains the following Proposition 65 chemicals.

Chemical Name	California Proposition 65
Cobalt lithium manganese nickel oxide - 346417-97-8	Carcinogen

**U.S. State Right-to-Know Regulations**

Chemical Name	New Jersey	Massachusetts	Pennsylvania	Rhode Island	Illinois
Lithium nickel cobalt manganese oxide 346417-97-8	X		X	X	X
Carbon 7440-44-0			X		
Ethylene carbonate 96-49-1		X	X		
Copper 7440-50-8	X	X	X	X	X
Aluminum foil 7429-90-5		X		X	

**International Regulations****Mexico****National occupational exposure limits**

Component	Carcinogen Status	Exposure Limits
Cobalt lithium manganese nickel oxide 346417-97-8 (55%)		Mexico: TWA 0.2 mg/m <sup>3</sup>
Copper 7440-50-8 (5%)		Mexico: TWA= 1 mg/m <sup>3</sup> Mexico: TWA= 0.2 mg/m <sup>3</sup> Mexico: STEL= 2 mg/m <sup>3</sup>
Aluminum foil 7429-90-5 (5%)		Mexico: TWA= 10 mg/m <sup>3</sup>

Mexico - Occupational Exposure Limits - Carcinogens

**Canada****WHMIS Hazard Class**

Non-controlled

**Section 16 - Other Information**

<b>NFPA</b>	Health Hazards 1	Flammability 0	Instability 0	<b>Physical and Chemical Hazards -</b>
<b>HMIS</b>	Health Hazards 0	Flammability 0	Physical Hazard 0	



				<b>Personal Protection X</b>
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**Revision Date:** 22-January-2018

**Revision Note:** No information available

**Disclaimer**

The information provided in this 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--**