



# SAFETY DATA SHEET

Product name: BL-V-BP198

Company name: NEP Inc.

Address: VORT KUDAN 3F, 3-7-14 KUDAN MINAMI, CHIYODAKU, TOKYO 102-0074, JAPAN

TEL: +81-3-3263-6741, (Emergency TEL (Kunio Masaoka Handy Phone): +81-90-6027-0828)

FAX: +81-3-3263-6741

This battery pack contains below mentioned materials.

Detailed document number is WTX19X01003015B

general name	CAS No.	concentration (%)
Aluminum and inert materials	N/A	10
Aluminum Foil (Al)	7429-90-5	10
Copper Foil (Cu)	7440-50-8	10
Cobalt Oxide	1307-96-6	10
Manganese oxide	1313-13-9	10
Nickel oxide	1313-99-1	10
Carbon	7440-44-0	10
Phosphate, hexafluoro-, lithium	21324-40-3	20
Poly Vinylidene Fluoride PVDF	24937-79-9	10

## Transport information

UN No.	proper shipping name	class
3480 (965)	Lithium-ion battery	9

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CHIYODAKU, TOKYO 102-0074, JAPAN

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## PRODUCT INTRODUCTION SHEET

Brand: NEP Inc. (Beillen)

Model: BL-V-BP198

Cell:	Li-ion
Type:	V-lock Li-ion Battery
Voltage:	14.8 V
Capacity:	Typical ---6.7Ah+6.7Ah / 99Wh+99Wh
Built-in:	Standard Power Tap connector for direct camera light supply 5V1A USB 2.0 output for smart mobile phone
Suggest operating temperature:	-20° C~ +55° C
Dimension:	100(W) X 174 (L) X 57(D)mm
Weight:	Approximately 1400g
Short circuit protection:	Built-in recoverable PCB
Cut-off voltage:	11 V (Test data of lab, different camera will have different running time based on its own cut-off voltage)
Charging voltage:	16.8 V
Transportation:	The aggregate equivalent lithium content: 8.0g+8.0g (Seal, separate and keep in strong packaging during transportation.)

Maximum load: 180W

### Charging time by Beillen chargers (full charge):

BLB-T1A-B:	Approx.402 min.
BLB-BP2E:	Approx. 162 min.
BLB-BP4E:	Approx. 321min.

### Remarks:

- \* It is compatible with all professional video cameras using V-lock battery packs.
- \* This model is specially designed for overseas market only.
- \* After 600 charge/discharge cycles, it is normal if the remaining capacity is lower than 60% of initial capacity.

### Life cycle test conditions:

- Temperature:  $2 \pm 2^{\circ}\text{C}$
- Relative humidity:  $65\% \pm 5$ .
- Atmospheric pressure: 86 Kpa ~ 106Kpa
- Measure the remaining capacity after 300 charge/discharge cycles at 0.5C with cut-off voltage set to 11.00V.



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FAX: +81-3-3265-1297

## Lithium ion Battery Test Summary(Certificate of UN test)

model	BL-V-BP198
Manufacturer/Brand	NEP Inc./JIAD ENEERGY technology
Address	VORT KUDAN 3F , 3-7-14 KUDANMINAMI , CHIYODAKU , TOKYO , 102-0074 , JAPAN
Tel	+81-3-3263-6741
e-mail	k-masaoka@nepinc.co.jp
URL	https://nepinc.co.jp
Test Laboratory	Shenzhen SEM.TEST Technology CO.,Ltd.
Address	1/F.,ROOM 101,BUILDING1,HONGWEI INDUSTRIAL PARK,LIUXIAN'ER ROAD,BLOCK70,BAO'AN DISTRICT,SHENZHEN,GUANGDONG,CHINA
TEL	+86-0755-33663308
e-mail	admin@semtest.com.cn
URL	www.semtest.com.cn
Document Number	STR16069045S
Date of Test	2016-04-07
Description of Product	Lithium ion Rechargeable Battery
Normal Voltage	14.8V
Capacity(mAh/Wh)	6.7Ah+6.7Ah / 99Wh+99Wh
Lithium Equivalent Content	8.0g+8.0g
Product Weight	1400g

### Test Result

Test Result				
No.	Name of Test	Test Result	NOTE	
T1	AltitudeSimulation	Pass	First Cycle Fully charged 4 batteries	After 50 Cycle Fully charged 4 batteries
T2	Thermal Test	Pass		
T3	Vibration	Pass		
T4	Shock	Pass		
T5	External Short Circuit	Pass		
T6	Impact	Pass	First Cycle 50% charged 5cells	
T7	Overcharge	Pass	First Cycle Fully charged 4 batteries	After 50 Cycle Fully charged 4 batteries
T8	Forced Discharge	Pass	First Cycle Fully Discharged 10 cells	After 50 Cycle Fully Discharged 10 cells

Assembled Batttery Test

Reference Edition

Signature

Not applicable

UN Manual of Tests and Criteria,ST/SG/AC.10/11/Rev.6 PartII,Sub-section 38.3

Kunio Masaoka

Kunio Masaoka(Sales Manager)

Sales and Marketing Div.

NEP Inc.



Company name: NEP Inc.

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## 1.2m Drop Test Report

model	BL-V-BP198
Brand/Manufacturer	NEP Inc./JADE ENERGY technology
Address	VORT KUDAN 3F , 3-7-14 KUDANMINAMI , CHIYODAKU , TOKYO , 102-0074 , JAPAN
Tel	+81-3-3263-6741
e-mail	k-masaoka@nepinc.co.jp
URL	<a href="https://nepinc.co.jp">https://nepinc.co.jp</a>
Test Laboratory	Shenzhen SEM.TEST Technology CO.,Ltd.
Address	1/F.,ROOM 101,BUILDING1,HONGWEI INDUSTRIAL PARK,LIUXIAN'ER ROAD,BLOCK70,BAO'AN DISTRICT,SHENZHEN,GUANGDONG,CHINA
TEL	+86-0755-33663308
e-mail	admin@semtest.com.cn
URL	<a href="http://www.semtest.com.cn">www.semtest.com.cn</a>
Document Number	STR16069045S-1
Date of Test	2016-06-14

### Battery Specification

Description of Product	Lithium ion Rechargeable Battery
Normal Voltage	14.8V
Capacity(mAh/Wh)	6700+6700mAh / 99+99Wh
Lithium Equivalent Content	8.1+8.1g
Product Weight	1400g

### Test Result

Inspection method and Procedure	IATA Dangerous Goods Regulation(DGR)62th Edition
Shipping name	Lithium ion Batteries
Class or Division	9
UN number	UN3480
Packing requirements	The goods are packing according to Packaging Instruction 965 section IA
Performance requirements	Packing Group II
UN Packing Code/Group (Box)	4G/Y
Packing information	Size:360x360x360mm Battery Net Weight:14.9kg Battery number:10pcs

We declare that above-mentioned test is passed.

Signature

Kunio Masaoka(Sales Manager)  
Sales and Marketing Div.  
NEP Inc.



**Shenzhen SEM Test Technology Co., Ltd.**

1/F, Building A, Hongwei Industrial Park, Liuxian 2nd  
Road, Bao'an District, Shenzhen, P.R.C. (518101)

**Material Safety Data Sheet**

## Material Safety Data Sheet (MSDS)

For

Jiade Energy Technology (Zhuhai) Co., Ltd.

#1 Building, No.9 The 7th Dingwan Road, Sanzao Town, Jinwan District, Zhuhai, China  
and for their product

### Rechargeable Li-ion Battery

Model/type reference .....: BL-V-BP198, BL-V-AN198

Trademark .....: Beillen

Nominal Voltage.....: 14.4V

Typical Capacity.....: 13.8Ah, 198Wh

Weight.....: 1300g

Shape and Physical Dimension  
(mm).....: L: 170.0mm  
W: 100.0mm  
T:57.0mm

Version number.....: V4.0

Preparation Date.....: Jan. 14, 2019

Revision date.....: N/A.

Laboratory .....: **Shenzhen SEM Test Technology Co., Ltd.**

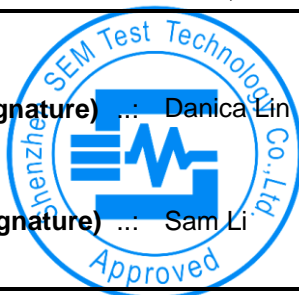
Address .....: 1/F, Building A, Hongwei Industrial Park, Liuxian 2nd  
Road, Bao'an District, Shenzhen, P.R.C. (518101)

Compiled by (name+ signature) ...: Danica Lin

Danica Lin

Approved by (name+ signature) ...: Sam Li

Sam Li





## **1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING**

### **Product Identifier**

Product name: Rechargeable Li-ion Battery

Model: BL-V-BP198 · BL-V-AN198

### **Other means of identification**

Synonyms:none

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

Recommended Use:Used in portable electronic equipments;

Uses advised against:

- a) Do not dismantle, open or shred secondary cells or batteries.
- b) Do not expose cells or batteries to heat or fire. Avoid storage in direct sunlight.
- c) Do not short-circuit a cell or a battery. Do not store cells or batteries haphazardly in a box or drawer where they may short-circuit each other or be short-circuited by other metal objects.
- d) Do not remove a cell or battery from its original packaging until required for use.
- e) Do not subject cells or batteries to mechanical shock.
- f) In the event of a cell leaking, do not allow the liquid to come in contact with the skin or eyes. If contact has been made, wash the affected area with copious amounts of water and seek medical advice.
- g) Do not use any charger other than that specifically provided for use with the equipment.
- h) Observe the plus (+) and minus (–) marks on the cell, battery and equipment and ensure correct use.
- i) Do not use any cell or battery which is not designed for use with the equipment.
- j) Do not mix cells of different manufacturer, capacity, size or type within a device.
- k) Battery usage by children should be supervised.
- l) Seek medical advice immediately if a cell or a battery has been swallowed.
- m) Always purchase the battery recommended by the device manufacturer for the equipment.
- n) Keep cells and batteries clean and dry.
- o) Wipe the cell or battery terminals with a clean dry cloth if they become dirty.
- p) Secondary cells and batteries need to be charged before use. Always use the correct charger and refer to the manufacturer's instructions or equipment manual for proper charging instructions.
- q) Do not leave a battery on prolonged charge when not in use.
- r) After extended periods of storage, it may be necessary to charge and discharge the cells or batteries several times to obtain maximum performance.
- s) Retain the original product literature for future reference.
- t) Use only the cell or battery in the application for which it was intended.
- u) When possible, remove the battery from the equipment when not in use.
- v) Dispose of properly.

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

Supplier Name: Jiade Energy Technology (Zhuhai ) Co., Ltd.

Address: #1 Building, No.9 The 7th Dingwan Road, Sanzao Town, Jinwan District, Zhuhai, China

Telephone number of the supplier: +86-756-8287186

Emergency Telephone No.(24h): +86-756-8287186

Fax: +86-756-8287686



Postcode: 519060

E-mail address: zhangls@blbattery.com

**Emergency telephone number**

**Company Emergency Phone Number:** +86-756-8287186

## 2. HAZARDS IDENTIFICATION

**Classification**

No harm at the normal use. If contact the Electrolyte liquid in the Lithium ion battery, reference as follows:

**Classification of the substance or mixture**

Classification according to GHS

Acute Toxicity, Oral(Hazard category 4)

Acute Toxicity, Dermal(Hazard category 3)

Skin, irritate(Cagegory 1B)

Eye Irritate (Hazard category 1)

**GHS Label elements, including precautionary statements:**



GHS02



GHS05



GHS06

**Signal word: Warning**

**Hazard statement(s):**

**H242:**Heating may cause a fire;

**H311:** Toxic in contact with skin;

**H314:**Causes severe skin burns and eye damage;

**H302:**Harmful if swallowed;

**precautionary statements:**

**Prevention:**

P264 Wash thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

**Response:**

P312:Call a Poison center or doctor/physician if you feel unwell.

P302+P350-IF ON SKIN: Gently wash with plenty of soap and water

P301+P330+P331-IF SWALLOWED: rise mouth. Do NOT induce vomiting

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:**

None

**Disposal**

**P501:** Dispose of contents/container in accordance with local/national regulations

**Hazards not otherwise classified (HNOC)**

Not Applicable

**Other information**

No information available.

**3. COMPOSITION/INFORMATION ON INGREDIENTS****Chemical characterization: Mixtures****Description:**

Product: Consisting of the following components.

Common Chemical Name	Concentration (%)	CAS Number	EC No.
Cobalt oxide	10	1307-96-6	215-154-6
Aluminum Foil (Al)	10	7429-90-5	231-072-3
Manganese dioxide	10	1313-13-9	215-202-6
Nickel oxide	10	1313-99-1	215-215-7
Copper Foil (Cu)	10	7440-50-8	231-159-6
Carbon	30	7440-44-0	231-153-3
Electrolyte	20	N/A	----
Polyvinylidene fluoride(PVDF)	5	24937-79-9	----
Aluminium and inert materials	5	N/A	----

Note: CAS number is Chemical Abstract Service Registry Number.

N/A=Not apply.

**4. FIRST-AID MEASURES****First aid measures**

Eye Contact Rinse thoroughly with plenty of water, also under the eyelids. If symptoms persist, call a physician.

Skin Contact Remove contaminated clothing and shoes. Wash skin with soap and water. In the case of skin irritation or allergic reactions see a physician.

Inhalation Move to fresh air. If symptoms persist, call a physician.

Ingestion Do NOT induce vomiting. Drink plenty of water. If symptoms persist, call a physician.

Most important symptoms and effects, both acute and delayed

Swallowing Do not induce vomiting. Get medical attention.

**Most Important Symptoms/Effects** No information available.

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

Notes to Physician Treat symptomatically

**5. FIRE-FIGHTING MEASURES**





### **Suitable Extinguishing Media**

CO<sub>2</sub>, dry chemical powder, water spray.

Unsuitable Extinguishing Media: No information available.

### **Specific Hazards Arising from the Chemical**

Formation of toxic gases is possible during heating or in case of fire.

In case of fire, the following can be released:

Carbon monoxide(CO)

Carbon dioxide

Other irritating and toxic gases.

### **Hazardous Combustion Products**

Carbon oxides.

Explosion Data

Sensitivity to Mechanical Impact No

Sensitivity to Static Discharge No

### **Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. For example: Wear self-contained respiratory protective device. Wear suitable protective clothing and eye/face protection.

### **Special hazards arising from the substance or mixture:**

Battery may burst and release hazardous decomposition products when exposed to a fire situation. Lithium ion batteries contain flammable electrolyte that may vent, ignite and produce sparks when subjected to high temperature(>150°C), When damaged or abused(e.g. mechanical damage or electrical overcharging); may burn rapidly with flare-burning effect; may ignite other batteries in clothes proximity.

## **6. ACCIDENTAL RELEASE MEASURES**

### **Personal precautions, protective equipment and emergency procedures**

Personal Precautions Avoid contact with eyes.

Refer to section 8 for personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition.

Evacuate personnel to safe areas.

### **Environmental precautions**

Environmental Precautions Refer to protective measures listed in Sections 7 and 8.

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to item 13.

### **Methods and material for containment and cleaning up**

Methods for Containment Prevent further leakage or spillage if safe to do so.

Methods for Cleaning up Use personal protective equipment. Dam up. Cover liquid spill with sand, earth or other Non combustible absorbent material. Pick up and transfer to properly labeled containers. Clean contaminated surface thoroughly.



## 7. HANDLING AND STORAGE

### Precautions for safe handling

Handling Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes and clothing. Wear personal protective equipment.

Wash thoroughly after handling. Use this material with adequate ventilation.

The product is not explosive.

### Conditions for safe storage, including any incompatibilities

If the Rechargeable Li-ion Battery is subject to storage for such a long term as more than 3 months, it is recommended to recharge the Rechargeable Li-ion Battery periodically.

3 months: -10°C~+40°C, 45 to 85%RH

And recommended at 0°C~+35°C for long period storage.

The capacity recovery rate in the delivery state (50% capacity of fully charged) after storage is assumed to be 80% or more.

The voltage for a long time storage shall be 12.0V~16.8V range.

Do not storage Rechargeable Li-ion Battery haphazardly in a box or drawer where they may short-circuit each other or be short-circuited by other metal objects.

Keep out of reach of children.

Do not expose Rechargeable Li-ion Battery to heat or fire. Avoid storage in direct sunlight.

Do not store together with oxidizing and acidic materials.

Keep ignition sources away- Do not smoke.

Store in cool, dry and well-ventilated place.

Incompatible Products None known.

## 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

### Control parameters

Ingredients with limit values that require monitoring at the workplace:	
12190-79-3 Lithium Cobalt Oxide	
TLV (USA)	0.02mg/m <sup>3</sup>
MAK (Germany)	0.1mg/m <sup>3</sup>

**Other Exposure Guidelines** Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962(11th Cir., 1992).

### Appropriate engineering controls

**Engineering Measures** Showers  
Eyewash stations  
Ventilation systems

Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits. Ensure adequate ventilation.

### Individual protection measures, such as personal protective equipment

**Eye/Face Protection:**



Tightly sealed goggles



**Body protection:**

Protective work clothing.

**Skin protection:**



**Protective gloves**

**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 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 through time has to be found out by the manufacturer of the protective gloves and has to be observed.

**Respiratory Protection** No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

**Hygiene Measures** Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Form: Prismatic	
	Color: Gray-black	
	Odour: Odourless	
	Odor Threshold: No information available	
Change in condition:		
pH, with indication of the concentration		Not determined.
Melting point/freezing point		Not determined.
Initial boiling point and Boiling range:		Not determined.
Flash Point		Not determined.
Evaporation rate		Not determined.
Flammability (solid, gas)		Not determined.
Upper/lower flammability or explosive limits		Not determined.
Vapor Pressure:		Not determined.
Vapor Density:		Not determined.
relative density:		Not determined.
Solubility in Water:		Not determined.
Solubility in other solvents		Not determined.



n-octanol/water partition coefficient	Not determined.
Auto-ignition temperature	Product is not self-igniting.
Decomposition temperature	Not determined.
Odour threshold	Not determined.
Evaporation rate	Not determined.
Viscosity	Not determined.
Other Information	No further relevant information available.

## 10. STABILITY AND REACTIVITY

**Reactivity:** Stable under recommended storage and handling conditions (see section 7, Handling and storage).

**Chemical stability:** Stable under normal conditions of use, storage and transport.

**Thermal decomposition/conditions to be avoided:** No decomposition if used according to specifications.

**Possibility of Hazardous Reactions:** None under normal processing.

**Hazardous Polymerization:** Hazardous polymerization does not occur.

**Conditions to avoid:** Strong heating, fire, Incompatible materials.

**Incompatible materials:** Strong oxidizing agents. Strong acids. Base metals.

**Hazardous Decomposition Products:** Carbon oxides, Other irritating and toxic gases.

## 11. TOXICOLOGICAL INFORMATION

**Acute toxicity:** No data available.

LD/LC50 values relevant for classification:

Not available.

**Skin corrosion/irritation:** No irritant effect.

**Serious eye damage/irritation:** Cause serious eye irritation.

**Respiratory or skin sensitization:** No sensitizing effects known.

**Specific target organ system toxicity:** No information available.

**CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction):** No information available.

## 12. Ecological Information

**Toxicity:**

Acquatic toxicity:

No further relevant information available.

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



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

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

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

**Other adverse effects:** No information available.

## 13. DISPOSAL CONSIDERATIONS

### **Waste treatment methods**

Recommendation: Must not be disposed together with household garbage.

Do not allow product to reach sewage system

### **Uncleaned packaging:**

Recommendation: Disposal must be made according to official regulations.

## 14. TRANSPORT INFORMATION

The dangerous goods regulations require that each battery design be subject to tests contained in Section 38.3 of UN Manual of Tests and Critical prior to being offered for transportation.

The packaging shall be adequate to avoid mechanical damage during transport, handling and stacking. The materials and pack design shall be chosen so as to prevent the development of unintentional electrical conduction, corrosion of the terminals and ingress of moisture.

UN number : UN3480 or UN3481;

UN Proper shipping name/Description (technical name): Lithium ion batteries or Lithium ion batteries contained in equipment or Lithium ion batteries packed with equipment;

UN Classification (Transport hazard class): Class 9 dangerous goods;

When the following requirements are met, can be shipped without being declared as Class 9 dangerous goods:

- 1: Shipped by air meets the requirement of Packing Instructions PI965, PI966 and PI967 Section II appropriate of IATA Dangerous Goods Regulations 60<sup>th</sup> Edition(IATA DGR 60<sup>th</sup>) for transportation;
- 2: Shipped by sea meets the requirement of Special Provision 188 appropriate of International Maritime Dangerous Good Code (IMDG CODE 38-16) for transportation;
- 3: Shipped by road meets the requirement of Special Provision 188 appropriate of International Carriage of Dangerous Goods by Road (ADR 2017) for transportation;
- 4: Shipped by rail meets the requirement of Special Provision 188 appropriate of International Carriage of Dangerous Goods by Rail (RID 2019) for transportation;

## 15. REGULATORY INFORMATION

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



EU Regulation:

**Authorisations:** No information available.

**Restrictions on use:** No information available.

**Regulatory information**

CAS No.	EU (EINECS)	US (TSCA)	Japan (ENCS)	Canada (DSL/ NDSL)	Australia (AICS)	Korea (ECL)	China (IECSC)
1307-96-6	Listed	Not listed	Not listed	NDSL	Not listed	Not listed	Not listed
7429-90-5	Listed	Listed	Listed	DSL	Listed	Listed	Listed
1313-13-9	Not listed	Listed	Not listed	DSL	Listed	Listed	Listed
1313-99-1	Not listed	Listed	Not listed	DSL	Listed	Listed	Listed
7440-50-8	Listed	Not listed	Not listed	NDSL	Not listed	Not listed	Not listed
7440-44-0	Listed	Listed	Listed	DSL	Listed	Listed	Listed
24937-79-9	Listed	Not listed	Not listed	NDSL	Not listed	Not listed	Not listed

**Chemical safety assessment**

A Chemical Safety Assessment has not been carried out.

**Transportation regulations**

IATA Dangerous Goods Regulations 60th Edition(IATA DGR 60th), effective January 1,2019

International Maritime Dangerous Good Code (IMDG CODE 38-16), effective January 1,2017

International Carriage of Dangerous Goods by Road (ADR 2017), effective January 1,2017

International Carriage of Dangerous Goods by Rail (RID 2019), effective January 1,2019

## 16. OTHER INFORMATION

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

**Relevant phrases:**

R20/22: Harmful by inhalation and if swallowed.

R36: Irritating to eyes.

H302: Harmful if swallowed.

H332: Harmful if inhaled.

\*\*\*\*\*End of MSDS\*\*\*\*\*