

Trade name: Viega Modell 2488.9

Product no.: 798475, 798482

Current version : 1.0.0, issued: 08.03.2021

Replaced version: -, issued: -

Region: GB

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

### 1.1 Product identifier

Trade name

**Viega Modell 2488.9**

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

Relevant identified uses of the substance or mixture

battery

Uses advised against

No data available.

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

Address

Viega Technology GmbH &amp; Co. KG

Viega Platz 1

57439 Attendorn

Telephone no. +49 2722 610

Fax no. + 49 2722 611415

Information provided by / telephone

+49 2722 61-1100

Advice on Safety Data Sheet

sdb\_info@umco.de

### 1.4 Emergency telephone number

For medical advice (in German and English):

+49 (0)551 192 40 (Giftinformationszentrum Nord)

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

Classification information

This product is an article in the sense of Article 3 of Regulation (EC) 1907/2006 (REACH) and is not subject to labelling according to Article 1, Regulation (EC) 1272/2008 (CLP).

Provision of a safety data sheet is not mandatory for articles according to Article 31 of Regulation (EC) 1907/2006 (REACH) and is done on a voluntary basis.

### 2.2 Label elements

Not relevant

### 2.3 Other hazards

PBT assessment

No data available.

vPvB assessment

No data available.

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Not applicable. The product is not a substance.

### 3.2 Mixtures

Hazardous ingredients

No	Substance name		Additional information	
	CAS / EC / Index / REACH no	Classification (EC) 1272/2008 (CLP)	Concentration	%
1	<b>Carbon</b>			
	7440-44-0	Eye Irrit. 2; H319	>= 25.00 - < 50.00	wt%

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	231-153-3 - -	STOT SE 3; H335		
<b>2</b>	<b>aluminium powder (pyrophoric)</b>			
	7429-90-5 231-072-3 013-001-00-6 -	Pyr. Sol. 1; H250 Water-react. 2; H261	>= 10.00 - < 25.00	wt%
<b>3</b>	<b>copper</b>			
	7440-50-8 231-159-6 - -	Acute Tox. 4; H302 Acute Tox. 3; H331 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 Eye Irrit. 2; H319	>= 10.00 - < 25.00	wt%
<b>4</b>	<b>lithium hexafluorophosphate(1-)</b>			
	21324-40-3 244-334-7 - -	Skin Corr. 1B; H314 Acute Tox. 3; H301 STOT RE 1; H372 Eye Dam. 1; H318	>= 5.00 - < 10.00	wt%
<b>5</b>	<b>poly(vinylidene fluoride)</b>			
	24937-79-9 -	-	>= 5.00 - < 10.00	wt%
<b>6</b>	<b>biphenyl</b>			
	92-52-4 202-163-5 601-042-00-8 -	Aquatic Acute 1; H400 Aquatic Chronic 1; H410 Eye Irrit. 2; H319 Skin Irrit. 2; H315 STOT SE 3; H335	< 0.50	wt%

Full Text for all H-phrases and EUH-phrases: pls. see section 16

No	Note	Specific concentration limits	M-factor (acute)	M-factor (chronic)
2	T	-	-	-
3	-	-	M = 10000	M = 100

Full text for the notes: pls. see section 16 "Notes relating to the identification, classification and labelling of substances ((EC) No 1272/2008, Annex VI)".

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### General information

No special measures necessary. The first aid information refers to the electrolyte solution and is only relevant for leaking batteries.

#### After inhalation

Ensure supply of fresh air. In case of persisting adverse effects consult a physician.

#### After skin contact

In case of contact with skin wash off with water. Get medical attention if pain still persists.

#### After eye contact

Remove contact lenses. Rinse eye thoroughly under running water keeping eyelids wide open and protecting the unaffected eye (at least 10 to 15 minutes). In case of irritation consult an ophthalmologist.

#### After ingestion

Rinse the mouth thoroughly with water. Never give anything by mouth to an unconscious person. Do not induce vomiting. Call a doctor.

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

No data available.

### 4.3 Indication of any immediate medical attention and special treatment needed

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No data available.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

#### Suitable extinguishing media

Carbon dioxide; Dry chemical extinguisher; Water spray jet; Water mist

#### Unsuitable extinguishing media

High power water jet

### 5.2 Special hazards arising from the substance or mixture

May explode if exposed to heat.

### 5.3 Advice for firefighters

Use self-contained breathing apparatus. Wear protective clothing.

## SECTION 6: Accidental release measures

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

#### For non-emergency personnel

Refer to protective measures listed in sections 7 and 8. Ensure adequate ventilation.

#### For emergency responders

No data available. Personal protective equipment (PPE) - see Section 8.

### 6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater.

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

Take up mechanically. Send in suitable containers for recovery or disposal.

### 6.4 Reference to other sections

Information regarding safe handling, see section 7. Information regarding personal protective measures, see section 8. Information regarding waste disposal, see section 13.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

#### Advice on safe handling

Ensure adequate ventilation. Do not insert batteries in reverse. Observe the polarity markings on battery and equipment.

Do not short-circuit batteries.

Do not charge batteries.

Do not force discharge batteries.

Do not mix batteries.

Do not overheat batteries by exposure to high temperatures and direct sunlight.

Do not weld or solder directly to batteries.

Do not dismantle batteries.

Do not deform batteries.

Do not dispose of batteries in fire.

A battery with a damaged container should not be exposed to water.

Do not allow children to replace batteries without adult supervision.

Keep batteries out of the reach of children. In case of ingestion of a cell or battery, the person involved should seek medical assistance promptly.

Equipment intended for use by children should have battery compartments which are tamper-proof.

Do not encapsulate and/or modify batteries.

Exhausted batteries should be immediately removed from equipment and disposed of (see section 13).

#### General protective and hygiene measures

Do not eat, drink or smoke during work time. Keep away from foodstuffs and beverages. Wash soiled clothing. Wash hands before breaks and after work.

#### Advice on protection against fire and explosion

No special measures necessary.

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

**Technical measures and storage conditions**

Protect from heat and direct sunlight. Protect against humidity

**Recommended storage temperature**

Value < 50 °C

**Requirements for storage rooms and vessels**

Keep only in the original container.

**Incompatible products**

Do not store together with: combustible materials

**7.3 Specific end use(s)**

No data available.

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

**8.1 Control parameters**

No parameters available for monitoring.

**8.2 Exposure controls**

**Appropriate engineering controls**

No data available.

**Personal protective equipment**

**Respiratory protection**

No special measures required.

**Eye / face protection**

No special measures required.

**Hand protection**

No special measures required.

**Other**

No special measures required.

**Environmental exposure controls**

No data available.

**SECTION 9: Physical and chemical properties**

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

<b>State of aggregation</b>	liquid
<b>Form/Colour</b>	solid black
<b>Odour</b>	odourless
<b>pH value</b>	No data available
<b>Boiling point / boiling range</b>	No data available
<b>Melting point/freezing point</b>	No data available
<b>Decomposition temperature</b>	No data available
<b>Flash point</b>	

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No data available

**Ignition temperature**

No data available

**Auto-ignition temperature**

Source

supplier

Comments

Product is not selfigniting.

**Flammability**

No data available

**Lower explosion limit**

No data available

**Upper explosion limit**

No data available

**Vapour pressure**

No data available

**Relative vapour density**

No data available

**Relative density**

No data available

**Density**

No data available

**Solubility in water**

Source

supplier

Comments

insoluble

**Solubility**

No data available

**Partition coefficient n-octanol/water (log value)**

No data available

**Viscosity**

No data available

**Particle characteristics**

No data available

**9.2 Other information****Other information**

No data available.

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

No data available.

**10.2 Chemical stability**

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

**10.3 Possibility of hazardous reactions**

Dangerous reactions are not to be expected when handling product according to its intended use.

**10.4 Conditions to avoid**

Moisture. Heat; Temperatures &gt; 60°C

**10.5 Incompatible materials**

strong oxidizing agents; strong acids

**10.6 Hazardous decomposition products**

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None if stored, handled and transported properly.

## SECTION 11: Toxicological information

### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute oral toxicity	
No data available	

Acute dermal toxicity	
No data available	

Acute inhalational toxicity	
No data available	

Skin corrosion/irritation	
No	Product Name
1	Viega Modell 2488.9
Source	supplier
Comments	Lithium batteries are products from which no substances are released under normal conditions of use. In the event of damage, organic electrolyte and other substances may escape.
Evaluation	irritant

Serious eye damage/irritation	
No	Product Name
1	Viega Modell 2488.9
Source	supplier
Comments	Lithium batteries are products from which no substances are released under normal conditions of use. In the event of damage, organic electrolyte and other substances may escape.
Evaluation	irritant

Respiratory or skin sensitisation	
No data available	

Germ cell mutagenicity	
No data available	

Reproduction toxicity	
No data available	

Carcinogenicity	
No data available	

STOT - single exposure	
No data available	

STOT - repeated exposure	
No data available	

Aspiration hazard	
No data available	

### 11.2 Information on other hazards

**Endocrine disrupting properties**

No data available.

**Other information**

No data available.

## SECTION 12: Ecological information

### 12.1 Toxicity

Toxicity to fish (acute)	
No data available	

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<b>Toxicity to fish (chronic)</b>
No data available
<b>Toxicity to Daphnia (acute)</b>
No data available
<b>Toxicity to Daphnia (chronic)</b>
No data available
<b>Toxicity to algae (acute)</b>
No data available
<b>Toxicity to algae (chronic)</b>
No data available
<b>Bacteria toxicity</b>
No data available

**12.2 Persistence and degradability**

No data available.

**12.3 Bioaccumulative potential**

No data available.

**12.4 Mobility in soil**

No data available.

**12.5 Results of PBT and vPvB assessment**

<b>Results of PBT and vPvB assessment</b>	
PBT assessment	No data available.
vPvB assessment	No data available.

**12.6 Endocrine disrupting properties**

No data available.

**12.7 Other adverse effects**

No data available.

**12.8 Other information**

<b>Other information</b>
Do not discharge product unmonitored into the environment.

**SECTION 13: Disposal considerations**

**13.1 Waste treatment methods**

**Product**

Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company.

In the EU, used batteries shall not be disposed of with general household waste and shall not be mixed with other batteries from other type of batteries from other systems in order to make recycling feasible and to prevent unintended harm, on both humans and the environment.

Used batteries must be returned (free of charge) to the point of sale or discarded in an appropriate collection point set up by waste management authorities (industry, trade). Lithium batteries are marked with the "symbol for separate collection" of batteries (crossed-out wheeled bin) in accordance with the European Batteries Directive.

**Packaging**

Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse. Packaging that cannot be cleaned should be disposed of in agreement with the regional waste disposal company.

**SECTION 14: Transport information**

**14.1 Transport ADR/RID/ADN**

Class	9
Classification code	M4

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UN number	UN3480
Proper shipping name	LITHIUM ION BATTERIES
Tunnel restriction code	E
Label	9A

## 14.2 Transport IMDG

Class	9
UN number	UN3480
Proper shipping name	LITHIUM ION BATTERIES
EmS	F-A, S-I
Label	9

## 14.3 Transport ICAO-TI / IATA

Class	9
UN number	UN3480
Proper shipping name	Lithium ion batteries
Label	9

## 14.4 Other information

No data available.

## 14.5 Environmental hazards

Information on environmental hazards, if relevant, please see 14.1 - 14.3.

## 14.6 Special precautions for user

To be transported always in closed, upright and safe containers. Make sure that persons handling these containers are aware of the rules of conduct in case of incident or spillage.

## 14.7 Maritime transport in bulk according to IMO instruments

Not relevant

## SECTION 15: Regulatory information

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

#### EU regulations

##### **Regulation (EC) No 1907/2006 (REACH) Annex XIV (List of substances subject to authorisation)**

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substances considered as substances requiring authorisation as listed on Annex XIV of the REACH regulation (EC) 1907/2006.

##### **REACH candidate list of substances of very high concern (SVHC) for authorisation**

According to available data and the information provided by preliminary suppliers, the article does not contain substances that are considered substances meeting the criteria for inclusion in annex XIV (List of Substances Subject to Authorisation) as laid down in Article 57 and article 59 of REACH (EC) 1907/2006.

##### **Regulation (EC) No 1907/2006 (REACH) Annex XVII: RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, MIXTURES AND ARTICLES**

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substances subject to restriction as listed in Annex XVII of the REACH regulation (EC) 1907/2006.

##### **Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances**

This product is not subject to Part 1 or 2 of Annex I.

##### **Other regulations**

Adhere to the national sanitary and occupational safety regulations when using this product.

### 15.2 Chemical safety assessment

Not required.

## SECTION 16: Other information

#### **Sources of key data used to compile the data sheet:**

Regulation (EC) No 1907/2006 (REACH), 1272/2008 (CLP) as amended in each case.  
Directives 2000/39/EC, 2006/15/EC, 2009/161/EU, (EU) 2017/164.



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National Threshold Limit Values of the corresponding countries as amended in each case.  
Transport regulations according to ADR, RID, IMDG, IATA as amended in each case.  
The data sources used to determine physical, toxic and ecotoxic data, are indicated directly in the corresponding section.

**Full text of the H- and EUH- phrases drawn up in sections 2 and 3 (provided not already drawn up in these sections)**

H250	Catches fire spontaneously if exposed to air.
H261	In contact with water releases flammable gases.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H335	May cause respiratory irritation.
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.

**Notes relating to the identification, classification and labelling of substances and mixtures ((EC) No 1272/2008, Annex VI)**

T	This substance may be marketed in a form which does not have the physical hazards as indicated by the classification in the entry in Part 3. If the results of the relevant method or methods in accordance with Part 2 of Annex I of this Regulation show that the specific form of substance marketed does not exhibit this physical property or these physical hazards, the substance shall be classified in accordance with the result or results of this test or these tests. Relevant information, including reference to the relevant test method(s) shall be included in the safety data sheet.
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**Creation of the safety data sheet**

UMCO GmbH

Georg-Wilhelm-Str. 187, D-21107 Hamburg

Tel.: +49 40 / 555 546 300 Fax: +49 40 / 555 546 357 e-mail: [umco@umco.de](mailto:umco@umco.de)

This information is based on our present knowledge and experience.

The safety data sheet describes products with a view to safety requirements.

It does not however, constitute a guarantee for any specific product properties and shall not establish a legally valid contractual relationship.

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