

# Wolf Chemical Ltd Hungary



## ***SAFETY INFORMATION SHEET***

compiled in accordance to the COMMISSION REGULATION (EU) 2015/830 of 28 May 2015 and the compliant Hungarian regulations

Reviewed on 29.07.2019

The nonpolarizing electrodes identified in section 1. are articles containing mixtures classified by the Directive 1999/45/ as not dangerous. It is not obligatory to issue MSDS. We intend the following description to present a safety information to the users.

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

#### **1.1. Product identifier**

Trade name: **WM or WL or WS or WLC nonpolarizing electrode**

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

##### **Relevant identified uses:**

The WM or WL or WS or WLC nonpolarizing electrodes are sensors for geoelectric geoelectromagnetic measurements.

##### **Uses advised against:**

Do not use as current supply electrodes.

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

Manufacturer:

WOLF Chemical Ltd.  
1195 Budapest, Hofherr u. 3-15.  
Phone/fax: +36 1 282-8881  
Email: wolf@wolf.hu

#### **Emergency telephone number**

WOLF Chemical Ltd., Farkas István, Phone/fax: 36. 1 282-8881  
National Institute of Chemical Safety Health Toxicological Information Service,  
Hungary Budapest, Phone: +36 80 20 11 99 (0-24 h, HU-EN)

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

#### **2.1. Classification of the substance or mixture**

The nonpolarizing electrodes identified Section 1. are articles that contain mixtures classified as not dangerous by the Directive 1999/45/EC

**2.2. Label elements** Not applicable.

#### **2.3. Other hazards**

The product contains lead plate embedded inside the non dangerous mixture. In this situation the lead is not exposed.

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### SECTION 3: Composition/information on ingredients

**3.1. Substances** Not applicable.

#### 3.2. Mixtures

The cylindrical body is made of PVC. The body is filled up with lead chloride (Pb-PbCl<sub>2</sub>) and salt saturated hard gel (henceforth matrix), and a lead plate spiral is cemented in it. The matrix does not contain dangerous substances over the tolerated maximum concentration.

% w/w	Ingredient	Identification	Classification
< 0,1	Lead(II)Chloride (The threshold limit of concentration for this substance is 0,1 % w/w)	CAS No: 7758-95-4 EU No: 231-845-5 Index No: 082-001-00-6	CLP: Acute Tox. oral 4 H302, Acute Tox. inhalative 4 H332, Repr. H360Df, STOT RE 2 H373, Aquatic Chronic 1 H410

The full text of H and R phrases see in the section 16.

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

*Inhalation:* is not probable exposure; first aid provision usually is not necessary.

*Skin contact:* is not probable exposure; first aid provision usually is not necessary.

*Eye contact:* is not probable exposure; first aid provision usually is not necessary.

*Ingestion:* is not probable exposure; first aid provision usually is not necessary.

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

*Inhalation:* is not probable exposure.

*Skin contact:* is not probable exposure.

*Eye contact:* is not probable exposure.

*Ingestion:* is not probable exposure.

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

There is no available information

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

#### **5.1. Extinguishing media**

Suitable extinguishing media: water spray, foam, extinguisher powder, carbon-dioxid.

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

In case of fire toxic gases may arise from the substance or mixture.

#### **5.3. Advice for firefighters:**

Usage of self-contained breathing apparatus, complete protecting clothes.

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

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

Keep away from the direct contact with the matrix of the product. Wear gloves for setting, removing and maintaining (see the Section 7.) of the electrodes, also for removing the contaminated part of the ground

#### **6.2. Environmental precautions:**

Keep away from drains, surface and ground water.

Remove and dispose the part of the ground if it came contaminated due to contact with the electrode matrix.

#### **6.3. Reference to other sections**

See the sections 7., 8.

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

#### **7.1. Precautions for safe handling**

No special measures of precaution are needed. Protect from physical damages.

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

Being out of usage keep the electrodes in their container (plastic box) according to „direction for use” of the electrodes.

Store in indoor storage and protect from sunshine.

Keep away from flammable media or acids.

#### **7.3. Specific end use(s)**

See the Section 1.2.

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### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

Occupational exposure limit values (OEL) for the substances in the mixture: LEAD and its inorganic compounds (calculated as Pb equivalent): STEL (EU/Hungary, 15 min): 0,15 mg/m<sup>3</sup>

#### 8.2. Exposure controls

*General protective and hygienic measures:* one has to keep the usual measures of manipulation with chemicals. It is prohibited the eating, drinking, and smoking while working. Need to wash hands at the pauses and at the end of works.

*Individual protection measures, such as personal protective equipment:*

*Breathing protection:* for proper use is not necessary; in case of exposure due to accident one has to use close system breathing apparatus.

*Eye protection (EN 166):* for proper use is not necessary.

*Hand protection:(EN 374):* it is advised the wearing of protective gloves.

*Skin and body protection(EN 465):* wearing of working suit.

*Environmental exposure controls:* Keep away from drains, live surface and ground water.

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

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

*Appearance:* physical state: solid (gypsum saturated with PbCl)

*Color:* pale blue (see the bottom of the electrode)

*Odor:* not applicable

*PH:* 5-6

*Melting point/freezing point:* not applicable

*Initial boiling point and boiling range:* not applicable

*Flash point:* not applicable

*Evaporation rate:* not applicable

*Flammability (solid, gas):* not applicable

*Upper/lower flammability:* not applicable

*Explosive limits:* not explosive

*Vapour pressure:* not applicable

*Vapour density:* not applicable

*Density:* 1125 kg/m<sup>3</sup>

*Solubility in water:* not soluble

*Degradation in water:* 530 mg/l/10h (laboratory data).

*Degradation into the ground and/or interface material:* orders of magnitude smaller than in water.

*Partition coefficient: n-octanol/water:* not available data

*Auto-ignition temperature:* not applicable

*Decomposition temperature:* not available data

*Viscosity:* not viscous

#### **9.2. Other information:** not available data

### **SECTION 10: Stability and reactivity**

**10.1. Reactivity:** not available data.

**10.2. Chemical stability:** stable (under normal ambient and anticipated storage handling and usage conditions).

**10.3. Possibility of hazardous reactions:** does not occur (under normal ambient and anticipated storage, handling and usage conditions).

**10.4. Conditions to avoid:** physical damage, contact of the surface of electrode with strong acids.

**10.5. Incompatible materials:** strong acids.

**10.6. Hazardous decomposition products:** does not arise under normal ambient and anticipated storage and handling, usage conditions; in case of fire see the section 5.

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

No toxicological study had been performed related to the article. In accordance with relevant EU regulations the article has been classified as non dangerous article. The lead and the lead compounds are harmful for the cells and the nervs (might cause injury of the brain), but in case of proper handling and usage of the product (article) the lead content is not exposed, and thus no danger occurs.

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

**12.1. Toxicity:** In accordance with relevant EU regulations the article has been classified as non dangerous article. In case of proper handling and usage of the product (article) the lead content is not exposed, and thus no danger occurs.

**12.2. Persistence and degradability:** The lead does not decay biologically. In case of proper handling and usage of the product (article) the lead content is not exposed, and thus no danger occurs.

**12.3. Bioaccumulative potential:** The lead accumulates in the organism.  
Nevertheless in case of proper handling and usage of the product (article) the lead content is not exposed, and thus no danger occurs

**12.4. Mobility in soil:** there is no information.

**12.5. Results of PBT and vPvB assessment:** The product (article) is not regarded as of PBT and vPvB substances but the lead and the lead compound, that it contains are toxic and bioaccumulative (see 12.1., 12.3.).

**12.6. Other adverse effects:** there are not such effects.

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

#### **13.1. Waste treatment methods:**

All local and national regulations should be followed.

Residue: collect the material separately, and send to special waste disposal company. Must not be disposed together with household garbage.

EWC (recommandation): 20 01 36

Waste: the waste code must be allocated in compliance with the 2008/98/EC Directive, 91/689/EEC Directive referring to the specific process and the sector.

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

According to classification systems of related regulations ((ADR, RID, ADN, IMDG, ICAO-TI, IATA-DGR) this product (article) is not referred as dangerous.

**14.1. UN number:** not applicable.

**14.2. UN proper shipping name:** not applicable.

**14.3. Transport hazard class(es):** not applicable.

**14.4. Packing group:** not applicable.

**14.5. Environmental hazards:** not applicable.

**14.6. Special precautions for user:** for the transport the electrodes should be kept always in their individual plastic container.

**14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:** not applicable.

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

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

One shall apply the decisions and regulations together with actual amendments.

##### **International regulations**

COMMISSION REGULATION (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006

COMMISSION DECISION of 12 July 1995 setting up a Scientific *Committee* for Occupational Exposure Limits to Chemical Agents (95/320/EC).

MARPOL 73/78 Consolidated Edition 2006 London. International Convention for the Prevention of Pollution from ships, 1973.

IBC regulation, IMO 2007, London, ISBN 978-92-801-4226-6.

IMO MEPC.2/Circ.14 17 December 2008 Provisional categorization of liquid substances.

##### **Hungarian regulations:**

2000. évi XXV. Tv. law on the chemical safety.

44/2000. (XII.20.) EüM rend., regulation on detailed rules of handling and manipulations of dangerous substances and articles.

25/2000. (IX.30.) EüM-SzCsM együttes Rend., common regulation on chemical safety of workplaces.

1993. évi XCIII. Tv., law on the labour safety and relevant regulations.

3/2002. (II. 8.) SzCsM-EüM együttes Rend., common regulation on minimum labour safety requirements of workplaces.

28/2011. (IX. 6.) BM Rend., regulation; National Fire Safety Regulations.

1995. évi LIII. Tv., law on general rules of environment protection.

1995. évi LVII. Tv., law on water management.

220/2004. (VII. 21.) Korm. Rend., govern. regulation on rules of the protection of quality of surface waters.

2012. évi CLXXXV. Tv., law on the waste.

98/2001. (VI.15.) Korm. Rend., govern regulation on conditions of manipulations related dangerous waste.

442/2012. (XII. 29.) Korm. rendelet govern. Regulation on the packing and the tretmant of the packint waste.

16/2001. (VII.18.) KöM Rend., regulation, List of waste.

**15.2. Chemical safety assessment:** was not done.

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### SECTION 16: Other information

H and R phrases in Section 2. and 3.

H302 Harmful if swallowed.

H360Df May damage the unborn child. Suspected of damaging the fertility.

H373 May cause damage to organs through prolonged or repeated exposure.

H410 Very toxic to aquatic life with long lasting effects.

R20/22 Harmful by inhalation and if swallowed.

R33 Danger of cumulative effects.

R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R61 May cause harm to the unborn child.

R62 Possible risk of impaired fertility.

#### Abbreviations:

EU European Union

ADR European Agreement concerning the International Carriage of Dangerous Goods by Road

RID Regulations concerning the International Carriage of Dangerous Goods by Rail, Annex B/1.

ADN European Agreement concerning the International Carriage of Dangerous Goods by Inland Navigation goods) (revised on 2010. 01. 01)

IMDG International Maritime Code for Dangerous Goods Amdt. 36-12 (2014.01.01)

ICAO International Civil Aviation Organization

IATA International Air Transport

CAS Chemical Abstracts Service

PBT Persistent, Bioaccumulate, Toxic

vPvB very Persistent, very Bioaccumulate

Acute Tox. Acute Toxicity

EüM Ministry of Health

SzCsM Ministry of Social and Family Affairs.

Korm. Government

BM Ministry for home affairs

KöM Ministry for Protection of Environment.

#### Users are reminded of the following:

- the information data were given in good faith to help to user for safety handling, storage and work with the electrodes,
- not proper use may result in dangers,
- the user is exclusively responsible for the application of other (without the mentioned in this information) necessary safety regulations according to handling, storage and use of the electrodes.