

**according to Regulation (EC) No 1907/2006, Article 31**

Printing date 27.03.2024

Version number 2 (replaces version 1)

Revision: 27.03.2024

**1 Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier****Trade name:** 841WBU**Other Means of Identification:** Super Shield Water Based Nickel Conductive Paint - Liquid**Related Part Number:**

841WBU-Liquid, 841WBU-55ML, 841WBU-850ML, 841WBU-3.78L, 841WBU-18.9L

**UFI:** EJK0-60QW-D00Y-9VAC**1.2 Relevant identified uses of the substance or mixture and uses advised against**  
No further relevant information available.**Application of the substance / the mixture** Nickel filled, electrically conductive coating**1.3 Details of the supplier of the safety data sheet** M.G. Chemicals Ltd.**Manufacturer/Supplier:**

MG Chemicals Ltd. (Head Office)  
1210 Corporate Drive  
Burlington, Ontario L7L 5R6  
CANADA  
+(1) 800-340-0772

MG Chemicals  
Heame House, 23 Bliston Street  
Sedgely Dudley DY3 1JA.  
UNITED KINGDOM  
+(44) 1663 362888 sales@mgchemicals.com

MG Chemicalst Ltd.  
Level 2, Vision Exchange, Building Territorials Street,  
Zone 1, Central Business, District,  
Birkirkara CBD 1070,  
MALTA

**Further information obtainable from:** sds@mgchemicals.com**1.4 Emergency telephone number:**

Verisk 3E (Access code: 335388), +(44) 20 3514787

Other emergency telephone numbers: +(0) 800 680 0425

Members of the public seeking specific information on poisons should contact:

In England and Wales: NHS 111 - dial 111

In Scotland: NHS 24 - dial 111

For hazardous material incidents ONLY (leaks, spills, fires, exposures or accidents)

USA or CANADA-Call Verisk 3E at +1-866-519-4752 or +1-760-476-3962 (Service access code: 335388)

For emergencies involving the transport of dangerous goods; 24/7 service

CANADA-Call CANUTEC collect at +1-613-996-6666 or \*666 on cellular phones

GB

(Contd. on page 2)



**according to Regulation (EC) No 1907/2006, Article 31**

Printing date 27.03.2024

Version number 2 (replaces version 1)

Revision: 27.03.2024

**Trade name: 841WBU**

(Contd. of page 1)

**2 Hazards identification****· 2.1 Classification of the substance or mixture****· Classification according to Regulation (EC) No 1272/2008**

GHS08 health hazard

Carc. 2

H351 Suspected of causing cancer. Route of exposure: Inhalation.

STOT RE 1

H372 Causes damage to the respiratory system through prolonged or repeated exposure. Route of exposure: Inhalation.



GHS07

Skin Sens. 1

H317 May cause an allergic skin reaction.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

**· 2.2 Label elements****· Labelling according to Regulation (EC) No 1272/2008**

The product is classified and labelled according to the GB CLP regulation.

**· Hazard pictograms**

GHS07 GHS08

**· Signal word Danger****· Hazard-determining components of labelling:**

nickel

Talc (Mg<sub>3</sub>H<sub>2</sub>(SiO<sub>3</sub>)<sub>4</sub>)**· Hazard statements**

H317 May cause an allergic skin reaction.

H351 Suspected of causing cancer. Route of exposure: Inhalation.

H372 Causes damage to the respiratory system through prolonged or repeated exposure.  
Route of exposure: Inhalation.

H412 Harmful to aquatic life with long lasting effects.

**· Precautionary statements**

P102 Keep out of reach of children.

P201 Obtain special instructions before use.

P260 Do not breathe mist/vapors/spray.

P280 Wear protective gloves / protective clothing.

P308+P313 IF exposed or concerned: Get medical advice/attention.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

**· 2.3 Other hazards****· Results of PBT and vPvB assessment****· PBT:** Not applicable.**· vPvB:** Not applicable.

(Contd. on page 3)

GB



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Revision: 27.03.2024

**Trade name: 841WBU**

(Contd. of page 2)

- **Determination of endocrine-disrupting properties**  
Endocrine Disruptor substance  $\geq 0.1\%$  = none

### 3 Composition/information on ingredients

#### · 3.2 Mixtures

- **Description:** Mixture of substances listed below with nonhazardous additions.

#### · **Dangerous components:**

|                   |  |        |
|-------------------|--|--------|
| CAS: 7440-02-0    | nickel   | 47.73% |
| EINECS: 231-111-4 | ☠ Carc. 2, H351; STOT RE 1, H372; ⚠ Skin Sens. 1, H317                           |        |
| CAS: 1569-01-3    | 1-propoxypropan-2-ol   | 1.74%  |
| EINECS: 216-372-4 | ☠ Flam. Liq. 3, H226; ⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H336 |        |
| CAS: 14807-96-6   | Talc ( $Mg_3H_2(SiO_3)_4$ )  | 1.34%  |
| EINECS: 238-877-9 | ☠ STOT SE 1, H370; STOT RE 1, H372   |        |

#### · **Non-hazardous components and components below classification threshold**

|   |   |       |
|---|---|-------|
| CAS: 121-44-8   | triethylamine   | 0.07% |
| EINECS: 204-469-4   | ☠ Flam. Liq. 2, H225; ☠ Skin Corr. 1A, H314; ⚠ Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332 |       |
| Specific concentration limit: STOT SE 3; H335: C $\geq 1\%$ |   |       |

- **Additional information:** For the wording of the listed hazard phrases refer to section 16.

### 4 First aid measures

#### · 4.1 Description of first aid measures

##### · **General information:**

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

##### · **After inhalation:**

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

##### · **After skin contact:** Immediately wash with water and soap and rinse thoroughly.

##### · **After eye contact:** Rinse opened eye for several minutes under running water.

##### · **After swallowing:** If symptoms persist consult doctor.

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

No further relevant information available.

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

No further relevant information available.

### 5 Firefighting measures

#### · 5.1 Extinguishing media

##### · **Suitable extinguishing agents:**

CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

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

During heating or in case of fire poisonous gases are produced.

#### · **5.3 Advice for firefighters**

- **Protective equipment:** Mouth respiratory protective device.

GB

(Contd. on page 4)



**according to Regulation (EC) No 1907/2006, Article 31**

Printing date 27.03.2024

Version number 2 (replaces version 1)

Revision: 27.03.2024

**Trade name: 841WBU**

(Contd. of page 3)

**6 Accidental release measures****· 6.1 Personal precautions, protective equipment and emergency procedures***Mount respiratory protective device.***· 6.2 Environmental precautions:***Inform respective authorities in case of seepage into water course or sewage system.**Do not allow to enter sewers/ surface or ground water.***· 6.3 Methods and material for containment and cleaning up:***Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).**Dispose contaminated material as waste according to section 13.**Ensure adequate ventilation.***· 6.4 Reference to other sections***See Section 7 for information on safe handling.**See Section 8 for information on personal protection equipment.**See Section 13 for disposal information.***7 Handling and storage****· 7.1 Precautions for safe handling***Ensure good ventilation/exhaustion at the workplace.**Open and handle receptacle with care.**Prevent formation of aerosols.***· Information about fire - and explosion protection:***Keep respiratory protective device available.***· 7.2 Conditions for safe storage, including any incompatibilities****· Storage:****· Requirements to be met by storerooms and receptacles:** *No special requirements.***· Information about storage in one common storage facility:** *Not required.***· Further information about storage conditions:** *Keep container tightly sealed.***· 7.3 Specific end use(s)** *No further relevant information available.***8 Exposure controls/personal protection****· 8.1 Control parameters****· Ingredients with limit values that require monitoring at the workplace:****7440-02-0 nickel***WEL Long-term value: 0.5 mg/m<sup>3</sup>**as Ni; Sk; Carc***· Additional information:** *The lists valid during the making were used as basis.***· 8.2 Exposure controls****· Appropriate engineering controls** *No further data; see section 7.***· Individual protection measures, such as personal protective equipment****· General protective and hygienic measures:***Keep away from foodstuffs, beverages and feed.**Immediately remove all soiled and contaminated clothing**Wash hands before breaks and at the end of work.**Store protective clothing separately.***· Respiratory protection:***In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.*

(Contd. on page 5)



**according to Regulation (EC) No 1907/2006, Article 31**

Printing date 27.03.2024

Version number 2 (replaces version 1)

Revision: 27.03.2024

**Trade name: 841WBU**

(Contd. of page 4)

**· Hand protection**

Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

**· 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.

**· Eye/face protection**

Tightly sealed goggles

**9 Physical and chemical properties****· 9.1 Information on basic physical and chemical properties****· General Information****· Physical state**

Fluid

**· Colour:**

According to product specification

**· Odour:**

Characteristic

**· Odour threshold:**

Not determined.

**· Melting point/freezing point:**

Undetermined.

**· Boiling point or initial boiling point and boiling range**

89.3 °C

**· Flammability**

Not applicable.

**· Lower and upper explosion limit****· Lower:**

Not determined.

**· Upper:**

Not determined.

**· Flash point:**

-17 °C

**· Auto-ignition temperature:**

200 °C

**· Decomposition temperature:**

Not determined.

**· pH**

Not determined.

**· Viscosity:****· Kinematic viscosity**

Not determined.

**· Dynamic:**

Not determined.

**· Solubility****· water:**

Not miscible or difficult to mix.

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

Not determined.

**· Vapour pressure:**

Not determined.

(Contd. on page 6)

GB



## according to Regulation (EC) No 1907/2006, Article 31

Printing date 27.03.2024

Version number 2 (replaces version 1)

Revision: 27.03.2024

Trade name: 841WBU

(Contd. of page 5)

- **Density and/or relative density**
- **Density at 20 °C:** 2.91 g/cm<sup>3</sup>
- **Relative density** Not determined.
- **Vapour density** Not determined.
- **9.2 Other information**
- **Appearance:**
- **Form:** Fluid
- **Important information on protection of health and environment, and on safety.**
- **Ignition temperature:** Product is not selfigniting.
- **Explosive properties:** Product does not present an explosion hazard.
- **Solvent content:**
- **VOC (EC)** 0.07 %
- **Change in condition**
- **Evaporation rate** Not determined.
- **Information with regard to physical hazard classes**
- **Explosives** Void
- **Flammable gases** Void
- **Aerosols** Void
- **Oxidising gases** Void
- **Gases under pressure** Void
- **Flammable liquids** Void
- **Flammable solids** Void
- **Self-reactive substances and mixtures** Void
- **Pyrophoric liquids** Void
- **Pyrophoric solids** Void
- **Self-heating substances and mixtures** Void
- **Substances and mixtures, which emit flammable gases in contact with water** Void
- **Oxidising liquids** Void
- **Oxidising solids** Void
- **Organic peroxides** Void
- **Corrosive to metals** Void
- **Desensitised explosives** Void

**10 Stability and reactivity**

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

**11 Toxicological information**

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
- **Acute toxicity** Based on available data, the classification criteria are not met.
- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.

(Contd. on page 7)



**according to Regulation (EC) No 1907/2006, Article 31**

Printing date 27.03.2024

Version number 2 (replaces version 1)

Revision: 27.03.2024

**Trade name: 841WBU**

(Contd. of page 6)

**· Serious eye damage/irritation***Based on available data, the classification criteria are not met.***· Respiratory or skin sensitisation** *May cause an allergic skin reaction.***· Germ cell mutagenicity** *Based on available data, the classification criteria are not met.***· Carcinogenicity** *Suspected of causing cancer. Route of exposure: Inhalation.***· Reproductive toxicity** *Based on available data, the classification criteria are not met.***· STOT-single exposure** *Based on available data, the classification criteria are not met.***· STOT-repeated exposure***Causes damage to the respiratory system through prolonged or repeated exposure. Route of exposure: Inhalation.***· Aspiration hazard** *Based on available data, the classification criteria are not met.***· 11.2 Information on other hazards****· Endocrine disrupting properties***None of the ingredients is listed.***12 Ecological information****· 12.1 Toxicity****· Aquatic toxicity:** *No further relevant information available.***· 12.2 Persistence and degradability** *No further relevant information available.***· 12.3 Bioaccumulative potential** *No further relevant information available.***· 12.4 Mobility in soil** *No further relevant information available.***· 12.5 Results of PBT and vPvB assessment****· PBT:** *Not applicable.***· vPvB:** *Not applicable.***· 12.6 Endocrine disrupting properties***The product does not contain substances with endocrine disrupting properties.***· 12.7 Other adverse effects****· Remark:** *Harmful to fish***· Additional ecological information:****· General notes:***Water hazard class 3 (German Regulation) (Self-assessment): extremely hazardous for water  
Do not allow product to reach ground water, water course or sewage system, even in small quantities.**Danger to drinking water if even extremely small quantities leak into the ground.**Harmful to aquatic organisms***13 Disposal considerations****· 13.1 Waste treatment methods****· Recommendation***Must not be disposed together with household garbage. Do not allow product to reach sewage system.***· European waste catalogue***HP5 Specific Target Organ Toxicity (STOT)/Aspiration Toxicity**HP7 Carcinogenic**HP13 Sensitising**HP14 Ecotoxic*

(Contd. on page 8)



**according to Regulation (EC) No 1907/2006, Article 31**

Printing date 27.03.2024

Version number 2 (replaces version 1)

Revision: 27.03.2024

**Trade name: 841WBU**

(Contd. of page 7)

- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

## 14 Transport information

- **14.1 UN number or ID number**
- **ADR, IMDG, IATA** not regulated
- **14.2 UN proper shipping name**
- **ADR, IMDG, IATA** not regulated
- **14.3 Transport hazard class(es)**
- **ADR, ADN, IMDG, IATA**
- **Class** not regulated
- **14.4 Packing group**
- **ADR, IMDG, IATA** not regulated
- **14.5 Environmental hazards:** Not applicable.
- **14.6 Special precautions for user** Not applicable.
- **14.7 Maritime transport in bulk according to IMO instruments** Not applicable.
- **UN "Model Regulation":** not regulated

## 15 Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Poisons Act**
- **Regulated explosives precursors**  
None of the ingredients is listed.
- **Regulated poisons**  
None of the ingredients is listed.
- **Reportable explosives precursors**  
None of the ingredients is listed.
- **Reportable poisons**  
None of the ingredients is listed.
- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** None of the ingredients is listed.
- **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3, 27
- **DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**  
None of the ingredients is listed.
- **REGULATION (EU) 2019/1148**
- **Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))**  
None of the ingredients is listed.
- **Annex II - REPORTABLE EXPLOSIVES PRECURSORS**  
None of the ingredients is listed.
- **Regulation (EC) No 273/2004 on drug precursors**  
None of the ingredients is listed.
- **Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors**  
None of the ingredients is listed.

(Contd. on page 9)

GB



**according to Regulation (EC) No 1907/2006, Article 31**

Printing date 27.03.2024

Version number 2 (replaces version 1)

Revision: 27.03.2024

**Trade name: 841WBU**

(Contd. of page 8)

**· 15.2 Chemical safety assessment:***A Chemical Safety Assessment has not been carried out.***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***H225 Highly flammable liquid and vapour.**H226 Flammable liquid and vapour.**H302 Harmful if swallowed.**H312 Harmful in contact with skin.**H314 Causes severe skin burns and eye damage.**H315 Causes skin irritation.**H317 May cause an allergic skin reaction.**H319 Causes serious eye irritation.**H332 Harmful if inhaled.**H335 May cause respiratory irritation.**H336 May cause drowsiness or dizziness.**H351 Suspected of causing cancer.**H370 Causes damage to organs.**H372 Causes damage to organs through prolonged or repeated exposure.***· Department issuing SDS:** *Product safety department.***· Contact:** *sds@mgchemicals.com***· Date of previous version:** *06.03.2024***· Version number of previous version:** *1***· Abbreviations and acronyms:***ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)**IMDG: International Maritime Code for Dangerous Goods**IATA: International Air Transport Association**GHS: Globally Harmonised System of Classification and Labelling of Chemicals**EINECS: European Inventory of Existing Commercial Chemical Substances**ELINCS: European List of Notified Chemical Substances**CAS: Chemical Abstracts Service (division of the American Chemical Society)**VOC: Volatile Organic Compounds (USA, EU)**PBT: Persistent, Bioaccumulative and Toxic**vPvB: very Persistent and very Bioaccumulative**ATE: Acute toxicity estimate values**Flam. Liq. 3: Flammable liquids – Category 3**Skin Irrit. 2: Skin corrosion/irritation – Category 2**Eye Irrit. 2: Serious eye damage/eye irritation – Category 2**Skin Sens. 1: Skin sensitisation – Category 1**Carc. 2: Carcinogenicity – Category 2**STOT SE 1: Specific target organ toxicity (single exposure) – Category 1**STOT SE 3: Specific target organ toxicity (single exposure) – Category 3**STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1**Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3***· \* Data compared to the previous version altered.**