







# CONDUCTIVE NICKEL COATING PAINT 3805N-3820N

## 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product Detail : Conductive nickel coating paint 3805N-3820N  
 Application of the substance / the preparation: For use as a conductive coating. For professional use only.  
 Manufacturer / supplier: Holland Shielding Systems B.V.  
 Jacobus Lipsweg 124  
 3316 BP Dordrecht  
 the Netherlands  
 phone +31(0)78-2049000  
 fax +31(0)78-2049008  
 www.hollandshielding.com  
 info@hollandshielding.com

## 2. HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture









| Classification According to directive 67/548/EEC or Directive 1999/45/EC<br>Main Hazards |  |
|--|--|
|         | GHS02 flame<br>Flam. Liq. 2 H225 Highly flammable liquid and vapour  |
|        | GHS08 Health hazard<br>Carc. 2 H351 Suspected of causing cancer<br>STOT RE 1 H372 Causes damage to organs through prolonged or repeated exposure |
|       | GHS05 corrosion<br>Eye Dam. 1 H318 Causes serious eye damage   |
|       | GHS07<br>Skin Irrit. 2 H315 Causes skin irritation<br>Skin Irrit. 1 H317 May cause an allergic skin reaction<br>F; Highly flammable              |
|  | Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects   |

|   |  |
|---|--|
| Label Elements<br>Labelling according to Regulation<br>(EC) No. 1272/2008 | The product is classified and labelled according to the CLP<br>regulation  |
| Hazard pictograms   | GHS02, GHS05, GHS07, GHS08   |
| Single Word   | Danger   |
| Hazard-determining components<br>of labelling                             | Nickel, isobutanol   |
| Hazard Statement  | Highly flammable liquid and vapour<br>Causes skin irritation<br>Causes serious eye damage<br>May cause an allergic skin reaction<br>Suspected of causing cancer<br>Causes damage to organs through prolonged or repeated exposure<br>Harmful to aquatic life with long lasting effects   |
| Precautionary statements  | Keep away from heat/sparks/open flames/hot surfaces - No smoking<br>Use explosion-proof electrical/ventilating/lighting/equipment<br>IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing.<br>Rinse skin with water/shower.<br>IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses,<br>if present and easy to do. Continue rinsing<br>Store locked up<br>Dispose of contents/container in accordance with local/regional/national/international regulations. |
| Other hazards   | Results of PBT and vPvB assessment<br>PBT: Not applicable<br>vPvB: Not applicable  |

# CONDUCTIVE NICKEL COATING PAINT 3805N-3820N

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Chemical characterisation: Mixtures

| Description: Mixture of substances listed below with non-hazardous additions  |  |         |
|---|--|---------|
| CAS: 141-78-6<br>EINECS: 205-500-4  | Ethyl Acetate  |         |
|   |  Flam. Liq. 2, H225           | 10-25%  |
|  Eye Irrit 2, H319; STOT SE 3, H336                        |  |         |
| CAS: 7440-02-0<br>EINECS: 231-111-4   | Nickel   |         |
|   |  Carc 2 H351; STOT RE 1 H372; | 25-50%  |
|  Skin Sens. 1 H317; Aquatic Chronic 3, H412                |  |         |
| CAS: 1330-20-7<br>EINECS: 215-535-7   | Xylene (mix)   |         |
|   |  Flam. Liq. 3, H226           | 10-25%  |
|  Acute Tox. 4 H312; Acute Tox. 4, H332; Skin Irrit 2, H315 |  |         |
| CAS: 123-86-4<br>EINECS: 204-658-1  | Butyl ethanoate  |         |
|   |  Flam. Liq. 3, H226;         | 2.5-10% |
|  STOT SE, H336   |  |         |
| CAS: 78-83-1<br>EINECS 201-148-0  | Iso-butanol  |         |
|   |  Flam. Liq. 3 H226          | 2.5-10% |
|   |  Eye Dam. 1, H318           |         |
|  Skin Irrit. 2, H315; STOT SE 3, H335-H336               |  |         |

## 4. FIRST AID MEASURES

### 4.1 Description of first aid measures

|              |   |
|--------------|---|
| Inhalation   | Supply fresh air and call for a doctor. In case of unconsciousness place patient stably in side position for transportation |
| Skin Contact | Immediately wash with water and soap and rinse thoroughly   |
| Eye Contact  | Rinse opened eye for several minutes under running water  |
| Ingestion    | 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

Seek medical attention if any symptoms persist

## 5. FIRE-FIGHTING 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

No further relevant information available

### 5.3 Advice for Fire Fighters

Do not use water with full jet. Wear full protective clothing and self contained breathing apparatus operating in the positive pressure mode.



# CONDUCTIVE NICKEL COATING PAINT 3805N-3820N

## 6. ACCIDENTAL RELEASE MEASURES

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

Wear protective equipment. Keep unprotected persons away

### 6.2 Environmental precautions

Do not allow product to enter drains, soil, waterways and sewers. Prevent further spillage if safe.

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

Dispose contaminated material as waste according to item 13. Ensure adequate ventilation.

### 6.4 Reference to other sections

See section 7, 8, 13 for further information

## 7. HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Ensure good ventilation/extraction at the workplace. Open and handle receptacle with care.

Further information about fire and explosion protection: Do not spray onto a naked flame or any incandescent material. Keep ignition sources away. Do not smoke. Protect against electrostatic charges.

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

Keep receptacle tightly sealed and do not seal receptacle gas tight. Store in cool dry conditions and in well sealed receptacles. Protect from heat and direct sunlight

### 7.3 Specific end use(s)

For professional use only, surface coating

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control Parameters

#### 8.1.1 Ingredients with limit Values that require monitoring at the workplace



|                                 |  |
|---------------------------------|--|
| 141-78-6 Ethyl Acetate<br>WEL   | Short term value: 400 ppm<br>Long term value: 200 ppm  |
| 1330-20-7 Xylene (mix)<br>WEL   | Short term value: 441 mg/m <sup>3</sup> , 100ppm<br>Long term value: 220 mg/m <sup>3</sup> , 50ppm<br>Sk; BMGV |
| 78-83-1 iso-butanol<br>WEL      | Short term value: 231 mg/m <sup>3</sup> , 75ppm<br>Long term value: 154 mg/m <sup>3</sup> , 50ppm<br>Sk        |
| 123-86-4 Butyl ethanoate<br>WEL | Short term value: 966 mg/m <sup>3</sup> , 200ppm<br>Long term value: 724 mg/m <sup>3</sup> , 150ppm            |

#### 8.1.2 Ingredients with biological limit values

|                                |   |
|--------------------------------|---|
| 1130-20-7 Xylene (mix)<br>BMGV | 650 mmol/mol creatinine<br>Medium Urine<br>Sampling time: post Shift<br>Parameter: methyl hippuric acid |
|--------------------------------|---|

# CONDUCTIVE NICKEL COATING PAINT 3805N-3820N

## 8.2 Exposure Controls

|  |   |
|--|---|
| 8.2.1 Appropriate engineering controls                         | To achieve adequate control, as required by the COSHH Regulations, extraction should be used to reduce exposure. Extraction should be properly maintained and in good working order. Please use health and safety guidelines to choose suitable extraction.   |
| 8.2.2 Individual Protection Measures<br>Respiratory Protection | When spraying the product, use a respiratory protection device.<br>When skin exposure may occur, advice should be sought from the glove supplier on appropriate types and usage times for this product  |
| Protection of hands  |  <b>Protective Gloves</b><br>The glove material has to be impermeable and resistant to the product/substance the preparation.  |
| 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 |
| Eye Protection   |  <b>Tightly sealed goggles</b>   |

## 9. PHYSICAL AND CHEMICAL PROPERTIES

|   |  |
|---|--|
| Form                                    | Liquid   |
| Colour                                  | Grey   |
| Odour                                   | Characteristic   |
| Odour Threshold                         | Not determined   |
| pH Value                                | Not determined   |
| Melting point/Melting range             | Undetermined   |
| Boiling point/Boiling point range       | 77 °C  |
| Flash point                             | -4 °C  |
| Flammability (solid gaseous)            | Not applicable   |
| Ignition temperature                    | 370 °C   |
| Decomposition temperature               | Not determined   |
| Self-igniting                           | Product is not self igniting   |
| Danger of Explosion                     | Product is not explosive. However, formation of explosive air/vapour mixtures are possible |
| Explosion limits lower                  | 1.1 Vol%   |
| Explosion limits Higher                 | 11.5 Vol%  |
| Vapour Pressure at 20 °C                | 100 hPa  |
| Density at 20 °C                        | 1.35 g/cm <sup>3</sup>   |
| Relative density                        | Not determined   |
| Vapour density                          | Not determined   |
| Evaporation rate                        | Not determined   |
| Solubility in/Miscibility with water    | NOT MISCIBLE   |
| Partition coefficient (n-octanol/water) | Not determined   |
| Viscosity: Dynamic                      | 350 mPas   |
| Kinematic                               | Not determined   |
| Organic solvents                        | 38.5%  |
| Water                                   | 0.3%   |
| Solids content                          | 61.2%  |

### 9.2 Other Information

No further information available





# CONDUCTIVE NICKEL COATING PAINT 3805N-3820N

## 10. STABILITY AND REACTIVITY

### 10.1 Reactivity

No data available on this product

### 10.2 Chemical Stability

No data available on this product

### 10.3 Possibility of Hazardous reactions

No dangerous reactions know

### 10.4 Conditions to be avoided/Thermal decomposition

No decomposition if used according to specifications

### 10.5 Incompatible materials

No further relevant information available

### 10.6 Hazardous Decomposition Products

No dangerous decomposition products know

## 11. TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

|                        |   | Acute toxicity<br>LD/LC50 Values relevant for classification |                    |
|------------------------|---|--|--------------------|
| 1330-20-7 Xylene (mix) | Oral  | LD50   | 8700 mg/kg (rat)   |
|                        | Dermal                                      | LD50   | 2000 mg/kg (rabit) |
|                        | Inhalative                                  | LC50/4 h   | 6350 mg/l (rat)    |
| Skin Contact           | No irritant effect                          |  |                    |
| Eye Contact            | No irritant effect                          |  |                    |
| Sensitization          | Sensitization possible through skin contact |  |                    |

### 11.2 Additional toxicological information

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparation as issued in the latest version: Harmful, Irritant

## 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 Ecotoxicological effect

Harmful to fish

### 12.6 Additional ecological information General Notes

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water. Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground. Harmful to aquatic organisms

### 12.7 Results of PBT and vPvB assessment

Not applicable

# CONDUCTIVE NICKEL COATING PAINT 3805N-3820N

## 12.8 Other adverse effects

No further relevant information available

## 13. DISPOSAL CONSIDERATIONS

|  |  |
|--|--|
| Waste Treatment methods Recommendation | Must not be disposed together with household garbage.<br>Do not allow product to reach sewage system |
| Unclean packaging Recommendation       | Disposal must be made according to official regulations  |

## 14. TRANSPORT INFORMATION


### 14.1 UN Number

|                 |        |
|-----------------|--------|
| ADR, IMDG, IATA | UN1263 |
|-----------------|--------|

### 14.2 UN Proper Shipping Name

|      |  |
|------|--|
| ADR  | 1263 Paint (vapour pressure at 50°C not more than 110 kPa) |
| IMDG | Paint  |
| IATA | Paint  |

### 14.3 Transport Hazard Class

|       |   |
|-------|---|
| ADR   |  |
| Class | 3 Flammable liquids   |
| Label | 3   |

### 14.4 Packing Group

|                 |    |
|-----------------|----|
| ADR, IMDG, IATA | II |
|-----------------|----|

### 14.5 Environmental hazard

|                              |                            |
|------------------------------|----------------------------|
| Marine pollutant             | No                         |
| Special precautions for user | Warning: Flammable liquids |
| Danger code (Kemler)         | -                          |
| EMS Number                   | F-E, S-E                   |

### 14.6 Transport Information

|   |   |
|---|---|
| Transport in bulk according to Annex II Of MARPOL73/78 and the IBC Code | Not applicable  |
| ADR Limited Quantities (LQ)   | 5L  |
| Transport category  | 2   |
| Tunnel restriction code   | D/E   |
| UN "Model Regulation":  | UN1263, PAINT (vapour pressure at 50°C not more than 110 kPa) 3, II |



# CONDUCTIVE NICKEL COATING PAINT 3805N-3820N

## 15. REGULATORY INFORMATION

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

15.2 Chemical Safety Assessment- A Chemical safety assessment has not been carried out

15.3 Water Hazard class: Water hazard class 2 (self –assessment): hazardous for water

15.4 Technical Instructions (air)

| Class  | Share in % |
|--------|------------|
| Wasser | 0.3        |
| II     | 39.3       |
| NK     | 38.8       |

## 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.

### Other Information

|      | Relevant phrases   |
|------|--|
| H225 | Highly flammable liquid and vapour                           |
| H226 | Flammable liquid and vapour                                  |
| H312 | Harmful in contact with skin                                 |
| H315 | Causes skin irritation                                       |
| H317 | May cause an allergic skin reaction                          |
| H318 | Causes serious eye damage                                    |
| 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                                  |
| H372 | Causes damage to organs through prolong or repeated exposure |
| H412 | Harmful to aquatic life with long lasting effects            |

