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

Product Detail :

Application of the substance / the preparation: Manufacturer / supplier: Conductive nickel coating aerosol 3801N For use as a conductive coating. For professional use only. 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

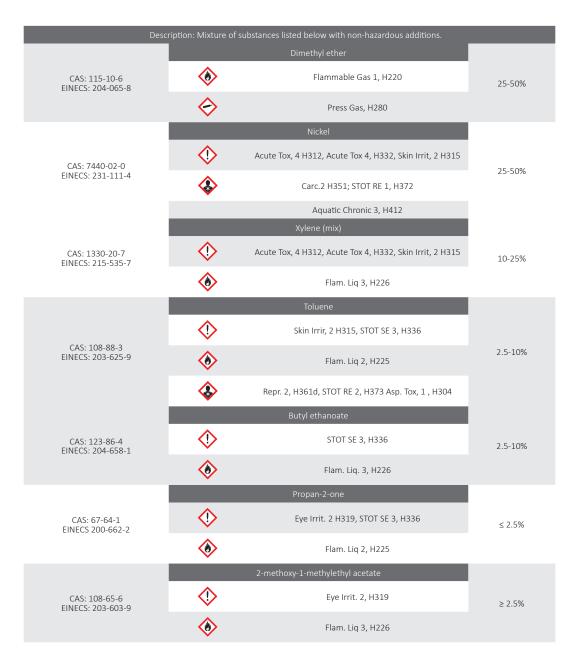
		Classification According to Regulation (EC) No.1272/2008 Main Hazards
	GHS02 Flame Flam. Aerosol 1 H222-H229: Extremely	flammable aerosol. Pressurized container: May burst if heated
	GHS08 Health hazard Carc. 2 Repr.2 STOT RE 1	H351 Suspected of causing cancer H361d Suspected of damaging the unborn child H372 Causes damage to organs through prolong or repeated exposure
	GHS07 Skin Irrit .2 Skin Sens. 1 Aquatic Chronic 3	H315 Causes skin irritation H317 May cause an allergic skin reaction H412 Harmful to aquatic life with long lasting effects
Label Eler	ments	
	ccording to Regulation No. 1272/2008	The product is classified and labeled according to the CLP regulation.
	ard pictograms	GHS02, GHS07, GHS08
	Single Word	Danger
	ermining components of labelling	Nickel Toluene
Haz	zard Statement	Extremely flammable aerosol, Pressurised container: May burst if heated Causes skin irritation May cause an allergic skin reaction Suspected of causing skin cancer Suspected of damaging an unborn child Causes damage to organs through prolong or repeated exposure Harmful to aquatic life with long lasting effects
Precaut	tionary statements	Keep away from heat/sparks/ open flames/hot surfaces No Smoking Pressurized container: Do not pierce or burn, even after use Do not breath dust/fume/gas/mist/vapours/spray Store locked up Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122°F. Dispose of contents/container in accordance with local/regional/national/international regulations.
Additi	ional information	Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. 61.5% by mass of the contents are flammable
0	ther Hazards	Results of PBT and vPvB assessment PBT: Not applicable vPvB: Not applicable

Revision date: 02-06-2018 www.hollandshielding.com

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3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Chemical characterisation: Mixtures



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 CO2, 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.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away

6.2 Environmental precautions

Inform respective authorities in case of seepage into water course or sewage system .Do not allow to enter sewers or ground water.

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. Pressurized containers protect from sunlight and do not expose to temperatures exceeding 50° C, i.e. electric lights. Do not pierce or burn, even after use.

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)

No further relevant information available

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control Parameters

8.1.1 Ingredients with limit Values that require monitoring at the workplace

115-10-6 dimethyl ether	Short term value: 958mg/m³, 500ppm
WEL	Long term value: 766mg/m³, 400ppm
1330-20-7 Xylene (mix) WEL	Short term value: 441 mg/m³, 100ppm Long term value: 220 mg/m³, 50ppm Sk; BMGV
108-88-3 Toluene WEL	Short term value: 384 mg/m³, 100ppm Long term value: 191 mg/m³, 50ppm Sk
123-86-4 Butyl ethanoate	Short term value: 966 mg/m³, 200ppm
WEL	Long term value: 724 mg/m³, 150ppm
67-64-1 Propan-2-one	Short term value: 3620 mg/m³, 1500ppm
WEL	Long term value: 1210 mg/m³, 500ppm
108-65-6 2-Methoxy-1-Methyethyl	Short term value: 548 mg/m³, 100ppm
Acetate	Long term value: 274 mg/m³, 50ppm
WEL	Sk

8.1.2 Ingredients with biological limit values

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

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 Mea- sures Respiratory Protection	When spraying the product, us a respiratory protection device. When skin exposure may occur, advice should be sought from the glove supplier on appropriate types an usage times for this product
Protection of hands	Protective Gloves 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 manufacture. 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	Tightly sealed goggles

9. PHYSICAL AND CHEMICAL PROPERTIES

Form	Aerosol
Colour	According to product specification
Odour	Characteristic
Odour Threshold	Not determined
pH Value	Not determined
Melting point/Melting range	Undetermined
Change in Conditions Boiling point/ Boiling point range	-24 °C
Flash point	-42 °C
Flammability (solid gaseous)	Not applicable
Ignition temperature	235 °C
Ignition temperature Decomposition temperature	235 °C Not determined
Decomposition temperature	Not determined
Decomposition temperature Self-igniting	Not determined Product is not self igniting

Vapour Pressure at 20 °C	5200 hPa
Density at 20 °C	1.028 g/cm ³
Relative density	Not determined
Vapour density	Not determined
Evaporation rate	Not applicable
Solubility in/Miscibility with water	NOT MISCIBLE
Partition coefficient (n-octanol/ water)	Not determined
Viscosity: Dynamic	Not determined
Kinematic	Not determined
Organic solvents	61.4%
Solids content	38.6%

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 LD/LC50 Values relevant for classification			
	Oral	LD50	5000 mg/kg (rat)
108-88-3 toluene	Dermal	LD50	12124 mg/kg (rab)
	Inhalative	LC50/4 h	5320 mg/l (mus)
Skin Contact	No irritant effect		
Eye Contact	No irritant effect		
Sensitization	Sensitization possible through skin o	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:

Irritant

CMR effects (carcinogenity, mutagenicity and toxicity for reproduction) Carc. 2 Repr 2.

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 Ecotoxical 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

12.8 Other adverse effects No further relevant information available

DISPOSAL CONSIDERATIONS 13.

Must not be disposed together with household garbage. Do not allow product to reach sewage system Waste Treatment methods Recom-mendation Unclean packaging Recommen-Disposal must be made according to official regulations

TRANSPORT INFORMATION 14.

14.1 UN Number

ADR, IMDG,IATA UN1950

14.2 UN Proper Shipping Name

ADR	1950 Aerosols
IMDG	Aerosols
IATA	Aerosols, flammable

14.3 Transport Hazard Class

ADR	٨	
Class	2	5F Gases
Label	2.1	

14.4 Label

IMDG, IATA	
Class	2.1
Label	2.1

Void

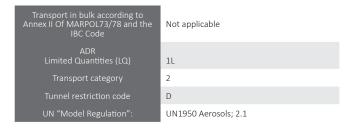
14.5 Packing Group

ADR,IMDG,IATA

14.6 Environmental hazard

Marine pollutant	No
Special precautions for user	Warning: Gases
Danger code (Kemler)	-
EMS Number	F-D, S-U

14.7 Transport Information



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 %
П	26.0
NK	61.5

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			
H220	Extremely flammable gas		
H225	Highly flammable liquid and vapour		
H226	Flammable liquid and vapour		
H280	Contains gas under pressure; may explode if heated		
H304	May be fatal if swallowed and enters airways		
H312	Harmful in contact with skin		
H315	Causes skin irritation		
H317	May cause an allergic skin reaction		
H319	Causes serious eye irritation		
H332	Harmful if inhaled		
H336	May cause drowsiness or dizziness		
H351	Suspected of causing cancer		
H316d	Suspected of damaging the unborn child		
H372	Causes damage to organs through prolong or repeated exposure		
H373	May cause damage to organs through prolonged or repeated exposure		
H412	Harmful to aquatic life with long lasting effects		

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