CONDUCTIVE NICKEL COATING 3805N & 3820N THINNER

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

Product Detail : 3805-3820N Thinner

Application of the substance / the preparation: Surface Coating. For industrial and professional use only.

Manufacturer / supplier:

Holland Shielding Systems B.V.
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2 HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008		
Flam. Liq. 3	H226	Flammable liquid and vapour.
Acute Tox. 4	H332	Harmful if inhaled.
Skin Irrit. 2	H315	Causes skin irritation.
STOT RE 2	H373	May cause damage to the hearing organs through prolonged or repeated exposure.
Asp. Tox. 1	H304	May be fatal if swallowed and enters airways.

2.2 Label Elements

Labelling according to Regulation (EC) No 1272/2008 The product is classified and labelled according to the CLP regulation.	
Hazard pictograms	 GHS02 GHS07 GHS08
Signal Word:	Danger

Hazard-determining components of labelling:
Xylene (mix)
ethylbenzene

Hazard Statements	
H226	Flammable liquid and vapour.
H332	Harmful if inhaled.
H315	Causes skin irritation.
H373	May cause damage to the hearing organs through prolonged or repeated exposure.
H304	May be fatal if swallowed and enters airways.

Precautionary Statements	
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
P321	Specific treatment (see on this label).
P331	Do NOT induce vomiting.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P362+P364	Take off contaminated clothing and wash it before reuse.
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.

3 COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Chemical characterisation: Mixtures

Description: Mixture of substances listed below with nonhazardous additions.		
Dangerous Components:		
	Xylene (mix)	
CAS No: 1330-20-7 EINECS: 215-535-7 Reg.nr.: 01-2119488216-32-xxxx	 Flam. Liq. 3, H226;  Acute Tox. 4, H312 Acute Tox. 4,H332 Skin Irrit. 2, H315	>50-≤100%
	ethylbenzene	
CAS No: 100-41-4 EINECS: 202-849-4 Reg.nr.: 01-2119489370-35	 Flam. Liq. 2, H225  STOT RE 2, H373; Asp. Tox. 1, H304  Acute Tox. 4, H332	>10-≤25%
	Butyl ethanoate	
CAS No: 123-86-4 EINECS: 204-658-1 Reg.nr.: 01-2119485493-29-XXXX	 Flam. Liq. 3, H226  STOT SE 3, H336	>2.5-≤10%

Additional Information

For the wording of the listed hazard phrases refer to section 16.

4 FIRST AID MEASURES

General information	Immediately remove any clothing soiled by the product. 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. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist. In case of unconsciousness place patient stably in side position for transportation. Supply fresh air; consult doctor in case of complaints.
After skin contact	Immediately wash with water and soap and rinse thoroughly. Remove contaminated clothing. Immediately rinse with water.
After eye contact	Rinse opened eye for several minutes under running water.
After swallowing	Do not induce vomiting; call for medical help immediately and show safety datasheet or label.

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

Treat Symptomatically

5 FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing agents: CO_2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Unsuitable Extinguishing agents: For safety reasons unsuitable extinguishing agents: Water with full jet

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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: Mount respiratory protective device.

6 ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Mount respiratory protective device.
Wear protective equipment. Keep unprotected persons away.

6.2 Environmental precautions:
Prevent seepage into sewage system, workpits and cellars.
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
Keep receptacles tightly sealed.
Ensure good ventilation/extraction at the workplace.
Prevent formation of aerosols.

Hygiene measures:	Wash hands before breaks and at the end of workday.
Information about fire- and explosion protection:	Keep ignition sources away- Do not smoke. Protect against electrostatic charges. 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 receptacle tightly sealed and in a well-ventilated place. Keep away from heat.

7.3 Specific end use(s)
No further relevant information available.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Additional information about design of technical facilities:	No further data; see section 7.

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Ingredients with limit values that require monitoring at the workplace:
WELs (Workplace Exposure Limits)

CAS No. 1330-20-7	Xylene (mix)		
WEL	Short-term value:	441 mg/m³, 100 ppm	Sk; BMGV
	Long-term value:	220 mg/m³, 50 ppm	
CAS No. 100-41-4	ethylbenzene		
WEL	Short-term value:	552 mg/m³, 125 ppm	Sk
	Long-term value:	441 mg/m³, 100 ppm	
CAS No. 123-86-4	Butyl ethanoate		
WEL	Short-term value:	966 mg/m³, 200 ppm	
	Long-term value:	724 mg/m³, 150 ppm	

DNELs

CAS No. 1330-20-7	Xylene (mix)	
Dermal	DNEL	108 mg/day (Con)
		180 mg/day (Ind)
Inhalative	DNEL	14.8 mg/m³ (Con)
		77 mg/m³ (Ind)
CAS No. 123-86-4	Butyl ethanoate	
Oral	DNEL	2 mg/day (Con)
Dermal	DNEL	6 mg/day (Con)
		11 mg/day (Ind)
Inhalative	DNEL	35.7 mg/m³ (Con)
		300 mg/m³ (Ind)

PNECs

CAS No. 1330-20-7	Xylene mixed isomers	
Fresh water;	PNEC	0.327 mg/l
Marine water;		0.327 mg/l
Intermittent release;		0.327 mg/l
STP (sewage-treatment plant);		6.58 mg/l
Sediment (Freshwater);		12.46 mg/kg
Sediment (Marinewater);		12.46 mg/kg
Soil;		2.31 mg/kg
CAS No. 123-86-4	Butyl Acetate	
Fresh water;	PNEC	0.18 mg/l
Marine water;		0.018 mg/l
Intermittent use/release:		0.36 mg/l
STP (sewage-treatment plant);		35.6 mg/l
Sediment (Freshwater);		0.981 mg/kg
Sediment (Marinewater);		0.0981 mg/kg
Soil;		0.0903 mg/kg

Ingredients with Biological Limit Values:

CAS No. 1330-20-7	Xylene (mix)		
	BMGV	650 mmol/mol	creatinine
		Medium:	urine
		Sampling time:	post shift
		Parameter:	methyl hippuric acid

Additional information
The lists valid during the making were used as basis.

8.2 Exposure controls

	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. Avoid contact with the skin. Avoid contact with the eyes and skin.

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Respiratory protection	When spraying the product, use a respiratory protective device.	
Protection of hands	Protective gloves	
Eye protection	Tightly sealed goggles	

9 PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

General Information

Appearance	
Form	Liquid
Color	Colourless
Odour	Characteristic
Odour threshold	Not determined.
pH-value	Not determined.

Change in condition	
Melting point/freezing point	Undetermined.
Initial boiling point and boiling range	126 °C
Flash point	24 °C
Flammability (solid, gas)	Flammable.
Auto-ignition temperature	415 °C
Decomposition temperature	Not determined.
Ignition temperature	Product is not selfigniting.
Explosive properties	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
Explosion limit (Lower)	1 Vol %
Explosion limit (Upper)	7.8 Vol %
Vapour pressure at 20 °C	9.5 hPa
Density at 20 °C	0.871 g/cm³
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)	Not determined.
Viscosity (Kinematic)	Not determined.

Solvent content	
Organic solvents	100.0 %
Solids content	0.0 %

9.2 Other information

No further relevant information available.

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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 when stored and handled correctly

11 TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity Based on available data, the classification criteria are not met. LD/LC50 values relevant for classification:			
CAS No. 1330-20-7	Xylene (mix)		
Oral		LD50	5,000 mg/kg (Rat)
Dermal		LD50	2,000 mg/kg (rbt)
Inhalative		LC50/4 h	11 mg/l (Rat)
CAS No. 100-41-4	ethylbenzene		
Oral		LD50	3,500 mg/kg (rat)
Dermal		LD50	17,800 mg/kg (rbt)
CAS No. 123-86-4	Butyl ethanoate		
Oral		LD50	10,760 mg/kg (rat)
Dermal		LD50	14,112 mg/kg (Rab)
Inhalative		LC50/4 h	23.4 mg/l (Rat)

Primary irritant effect:	
Skin corrosion/irritation	Causes skin irritation.
Serious eye damage/irritation	Based on available data, the classification criteria are not met.
Respiratory or skin sensitisation	Based on available data, the classification criteria are not met.
Aspiration hazard	May be fatal if swallowed and enters airways.

Additional toxicological information: CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)	
Germ cell mutagenicity	Based on available data, the classification criteria are not met.
Carcinogenicity	Based on available data, the classification criteria are not met.
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	May cause damage to the hearing organs through prolonged or repeated exposure.

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12 ECOLOGICAL INFORMATION

12.1 Toxicity

Aquatic toxicity

	Acute Fish toxicity
n-Butyl acetate	LC50 18 mg/l
Species:	Pimephales promelas (fathead minnow)
Exposure duration:	96 h
	Chronic Fish toxicity
n-Butyl acetate	No Data Available
	Acute toxicity for daphnia
n-Butyl acetate	EC50 44 mg/l
Species:	Daphnia (water flea)
Exposure duration:	48 h
	Chronic toxicity for daphnia
n-Butyl acetate	NOEC 23 mg/l
Species:	Daphnia (water flea)
Exposure duration:	21 d
Method:	OECD Test Guideline 211
	Acute toxicity for Algae
n-Butyl acetate	EC50 675 mg/l
Species:	Scenedesmus quadricauda (Green algae)
Exposure duration:	72 h
	Acute bacterial Toxicity
n-Butyl acetate	EC50 356 mg/l
Species:	Activated sludge
Exposure duration:	40 h

12.2 Persistence and degradability

No further relevant information available.

12.3 Bio accumulative potential

No further relevant information available.

12.4 Mobility in soil

No further relevant information available.

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. Must not reach sewage water or drainage ditch undiluted or un-neutralised. Danger to drinking water if even small quantities leak into the ground.

12.5 Results of PBT and vPvB assessment

PBT: Not applicable.
vPvB: Not applicable.

12.6 Other adverse effects

No further relevant information available.

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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.

Uncleaned 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 Related Material
IMDG	Paint Related Material
IATA	Paint Related Material

14.3 Transport hazard class(es)

ADR IMDG, IATA	
Class	3
Label	3

14.4 Packing group

ADR, IMDG, IATA	III

14.5 Environmental hazards:

Marine pollutant:	No

14.6 Special precautions for user

Warning	Flammable liquids.
Hazard identification number (Kemler code)	30
EMS Number	F-E, S-E
Stowage Category	A

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable.

	Transport/Additional information	
ADR	Limited quantities (LQ)	5L
	Excepted quantities (EQ)	Code: E1
	Maximum net quantity per inner packaging:	30 ml
	Maximum net quantity per outer packaging:	1000 ml
	Transport category	3
	Tunnel restriction code	D/E
IMDG	Limited quantities (LQ)	5L
	Excepted quantities (EQ)	Code: E1
	Maximum net quantity per inner packaging:	30 ml

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	Maximum net quantity per outer packaging:	1000 ml
UN "Model Regulation":	UN 1263 PAINT RELATED MATERIAL, 3, III	

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.

Seveso category: P5c FLAMMABLE LIQUIDS

Qualifying quantity (tonnes) for the application of lower-tier requirements 5,000 t

Qualifying quantity (tonnes) for the application of upper-tier requirements 50,000 t

National regulations: **Technical instructions (air):** **CLASS** **Share in %**

NK 100.0

Waterhazard class: Water hazard class 2 (Self-assessment): hazardous for water.

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.

Full text of H-Statements referred to under sections 2 and 3:	
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H332	Harmful if inhaled.
H336	May cause drowsiness or dizziness.
H373	May cause damage to organs through prolonged or repeated exposure.

Abbreviations and acronyms:	
RID:	Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
ICAO:	International Civil Aviation Organisation
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)
WEL:	Workplace Exposure Limit
DNEL:	Derived No-Effect Level (UK REACH)
PNEC:	Predicted No-Effect Concentration (UK REACH)
LC50:	Lethal concentration, 50 percent
LD50:	Lethal dose, 50 percent

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PBT:	Persistent, Bioaccumulative and Toxic
vPvB:	very Persistent and very Bioaccumulative
Flam. Liq. 2:	Flammable liquids – Category 2
Flam. Liq. 3:	Flammable liquids – Category 3
Acute Tox. 4:	Acute toxicity – Category 4
Skin Irrit. 2:	Skin corrosion/irritation – Category 2
STOT SE 3:	Specific target organ toxicity (single exposure) – Category 3
STOT RE 2:	Specific target organ toxicity (repeated exposure) – Category 2
Asp. Tox. 1:	Aspiration hazard – Category 1

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