

# CONDUCTIVE NICKEL COATING 3800N

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

Product Detail : 3805-3820 Conductive Nickel Coating paint  
 Application of the substance / the preparation: Surface Coating. For industrial and professional use only.  
 Manufacturer / supplier: Holland Shielding Systems B.V.  
 Jacobus Lipsweg 124  
 3316 BP Dordrecht  
 the Netherlands  
 Ph: +31(0)78- 204 90 00  
 Fax: +31(0)78- 204 90 08  
 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		
Flam. Liq. 2	H225	Highly flammable liquid and vapour
Skin Irrit. 2	H315	Causes skin irritation.
Eye Dam. 1	H318	Causes serious eye damage.
Skin Sens. 1	H317	May cause an allergic skin reaction
Carc. 2	H351	Suspected of causing cancer. Route of exposure: Inhalation.
STOT RE 1	H372-H373	Causes damage to the respiratory system through prolonged or repeated exposure. Route of exposure: Inhalation. May cause damage to the hearing organs through prolonged or repeated exposure. Route of exposure: Inhalation.
Aquatic Chronic 3	H412	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	   
Signal Word:	GHS02 GHS05 GHS07 GHS08 Danger

**Hazard-determining components of labelling:**  
 Nickel powder (particle diameter < 1 mm)  
 Isobutanol  
 Octadecanoic acid, 12-hydroxy-, reaction products with hexamethylenediamine

Hazard Statements	
H225	Highly flammable liquid and vapour.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H317	May cause an allergic skin reaction.
H351	Suspected of causing cancer. Route of exposure: Inhalation.
H372-H373	Causes damage to the respiratory system through prolonged or repeated exposure. Route of exposure: Inhalation. May cause damage to the hearing organs through prolonged or repeated exposure. Route of exposure: Inhalation.
H412	Harmful to aquatic life with long lasting effects. Precautionary Statements

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	Precautionary Statements
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER/doctor.
P321	Specific treatment (see on this label).
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:			
Nickel powder (particle diameter < 1 mm)			
CAS: 7440-02-0 EINECS: 231-111-4 Reg.nr.: 01-2119438727-29		Carc. 2, H351 STOT RE 1, H372	>25- ≤50%
		Skin Sens. 1, H317 Aquatic Chronic 3, H412	
Ethyl Acetate			
CAS: 141-78-6 EINECS: 205-500-4 Reg.nr.: 01-2119475103-46-XXXX		Flam. Liq. 2, H225	10- ≤25%
		Eye Irrit. 2, H319 STOT SE 3, H336	
Xylene (mix)			
CAS No: 1330-20-7 EINECS: 215-535-7 Reg.nr.: 01-2119488216-32-xxxx		Flam. Liq. 3, H226	>10- ≤25%
		Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315	
Butyl ethanoate			
CAS No: 123-86-4 EINECS: 204-658-1 Reg.nr.: 01-2119485493-29-XXXX		Flam. Liq. 3, H226	>2.5- ≤10%
		STOT SE 3, H336	
isobutanol			
CAS No: 78-83-1 EINECS: 201-148-0 Reg.nr.: 01-2119484609-23-XXXX		Flam. Liq. 3, H226	>2.5- ≤10%
		Eye Dam. 1, H318	
		Skin Irrit. 2, H315; STOT SE 3, H335-H336	

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CAS No: 100-41-4 EINECS: 202-849-4 Reg.nr.: 01-2119489370-35	ethylbenzene	
	 Flam. Liq. 2, H225	
	 STOT RE 2, H373 Asp. Tox. 1, H304	>1- ≤2.5%
	 Acute Tox. 4, H332	
	Octadecanoic acid, 12-hydroxy-, reaction products with hexamethylenediamine	
 STOT RE 2, H373	≤ 1%	
 Skin Sens. 1B, H317 Aquatic Chronic 4, H413		

## 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	Immediately remove any clothing soiled by the product.
After inhalation	Supply fresh air and call for a doctor. 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. Then consult a doctor.
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 <sub>2</sub> , powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
For safety reasons unsuitable extinguishing agents	Water with full jet

### 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.
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## 6. ACCIDENTAL RELEASE MEASURES

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

Mount respiratory protective device.

Wear protective equipment. Keep unprotected persons away.



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## 6.2 Environmental precautions:

Do not allow product to reach sewage system or any water course.  
Prevent seepage into sewage system, workpits and cellars.  
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).  
Use neutralising agent.  
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.  
Open and handle receptacle with care.  
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	Store in a cool location.
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. Store in cool, dry conditions in well sealed receptacles

### 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. 7440-02-0	nickel powder (particle diameter < 1 mm)			
WEL	Long-term value:	Long-term value: 0.5 mg/m <sup>3</sup> as Ni		Sk; Carc
CAS No. 141-78-6	Ethyl Acetate			
WEL	Short-term value:	1468 mg/m <sup>3</sup> , 400 ppm		
	Long-term value:	734 mg/m <sup>3</sup> , 200 ppm		
CAS No. 1330-20-7	Xylene (mix)			
WEL	Short-term value:	441 mg/m <sup>3</sup> , 100 ppm		Sk; BMGV
	Long-term value:	220 mg/m <sup>3</sup> , 50 ppm		
CAS No. 123-86-4	Butyl ethanoate			
WEL	Short-term value:	966 mg/m <sup>3</sup> , 200 ppm		
	Long-term value:	724 mg/m <sup>3</sup> , 150 ppm		
CAS No. 78-83-1	isobutanol			
WEL	Short-term value:	231 mg/m <sup>3</sup> , 75 ppm		
	Long-term value:	154 mg/m <sup>3</sup> , 50 ppm		
CAS No. 100-41-4	ethylbenzene			
WEL	Short-term value:	552 mg/m <sup>3</sup> , 125 ppm		Sk
	Long-term value:	441 mg/m <sup>3</sup> , 100 ppm		

## DNELs

CAS No. 7440-02-0	nickel powder (particle diameter < 1 mm)		
Dermal	DNEL	0.035 mg/day (Human)	
Inhalative	DNEL	0.05 mg/m <sup>3</sup> (Human)	
CAS No. 141-78-6	Ethyl Acetate		
Dermal	DNEL	37 mg/day (Con)	
		63 mg/day (Ind)	
Inhalative	DNEL	367 mg/m <sup>3</sup> (Con)	
		734 mg/m <sup>3</sup> (Ind)	
CAS No. 1330-20-7	Xylene (mix)		
Dermal	DNEL	108 mg/day (Con)	
		180 mg/day (Ind)	
Inhalative	DNEL	14.8 mg/m <sup>3</sup> (Con)	
		77 mg/m <sup>3</sup> (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/m <sup>3</sup> (Con)	
		300 mg/m <sup>3</sup> (Ind)	
CAS No. 78-83-1	isobutanol		
Oral	DNEL	25 mg/day (Con)	
Inhalative	DNEL	55 mg/m <sup>3</sup> (Con)	
		310 mg/m <sup>3</sup> (Ind)	



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

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

#### General Information

Appearance	
Form:	Liquid
Colour:	Grey
Odour:	Characteristic
Odour threshold:	Not determined.
pH-value:	Not determined.
Change in condition	
Melting point/freezing point:	Undetermined.
Initial boiling point and boiling range:	76 °C
Flash point:	-4 °C
Flammability (solid, gas):	Highly flammable
Auto-ignition temperature:	400 °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)	1.1 Vol %
Explosion limit (Upper)	11.5 Vol %
Vapour pressure at 20 °C:	98.3 hPa
Vapour pressure at 50 °C:	360 hPa
Density at 20 °C:	1.472 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 at 20°C)	350 mPas.
Viscosity (Kinematic)	Not determined.
Solvent content:	
Organic solvents:	40.0 %
Solids content:	60.0 %

#### 9.2 Other information

No further relevant information available.

## 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.



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## 10.6 Hazardous decomposition product

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. 7440-02-0	Nickel Powder (particle diameter <1mm)		
Oral	LD50	>9,000 mg/kg (Rat)	
CAS No. 141-78-6	Ethyl Acetate		
Oral	LD50	4,934 mg/kg (Rab)	
Dermal	LD50	20,000 mg/kg (Rab)	
Inhalative	LC50/4 h	1,600 mg/l (Rat)	
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. 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)	
CAS No. 78-83-1	isobutanol		
Oral	LD50	>2,000 mg/kg (Rat)	
Dermal	LD50	>2,000 mg/kg (Rab)	
CAS No. 100-41-4	Ethylbenzene		
Oral	LD50	3,500 mg/kg (rat)	
Dermal	LD50	17,800 mg/kg (rbt)	
Octadecanoic acid, 12 hydroxy-, reaction products with hexamethylene diamine			
Oral	LD50	2,000 mg/kg (Rat)	
Dermal	LD50	2,000 mg/kg (Rat)	
Inhalative	LC50/4 h	4.1 mg/l (Rat)	

Primary irritant effect	
Skin corrosion/irritation	Causes skin irritation.
Serious eye damage/irritation	Causes serious eye damage.
Respiratory or skin sensitisation	May cause an allergic skin reaction

Additional toxicological information CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)	
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.
	May cause damage to the hearing organs through prolonged or repeated exposure. Route of exposure: Inhalation.
Aspiration hazard	Based on available data, the classification criteria are not met.



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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 to daphnia	
n-Butyl acetate	NOEC 23 mg/l
Species	Daphnia magna (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.

### Ecotoxicological effects

Remark: Harmful to Fish

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. Harmful to aquatic organisms

### 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 (vapour pressure at 50°C not more than 110 kPa)
IMDG	Paint
IATA	Paint

### 14.3 Transport hazard class(es)

ADR, IMDG, IATA	
Class	3
Label	3

### 14.4 Packing group

ADR, IMDG, IATA II

### 14.5 Environmental hazards:

Marine pollutant: No

### 14.6 Special precautions for user

Warning:	Flammable liquids.
Hazard identification number (Kemler code):	33
EMS Number:	F-E, S-E
Stowage Code	B

### 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: E2
		Maximum net quantity per inner packaging:30ml
		Maximum net quantity per outer packaging:500ml
	Transport category	2
	Tunnel restriction code	D/E
IMDG	Limited quantities (LQ)	5L
	Excepted quantities (EQ)	Code: E2

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UN "Model Regulation":	Maximum net quantity per inner packaging:30ml
	Maximum net quantity per outer packaging:500ml
UN 1263 PAINT (vapour pressure at 50°C not more than 110 kPa), 3, II	

## 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 40.0
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.
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 prolonged or repeated exposure.
H373	May cause damage to organs through prolonged or repeated exposure.
H412	Harmful to aquatic life with long lasting effects.
H413	May cause long lasting harmful effects to aquatic life.

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## 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
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
Eye Dam. 1:	Serious eye damage/eye irritation – Category 1
Eye Irrit. 2:	Serious eye damage/eye irritation – Category 2
Skin Sens. 1:	Skin sensitisation – Category 1
Skin Sens. 1B:	Skin sensitisation – Category 1B
Carc. 2:	Carcinogenicity – Category 2
STOT SE 3:	Specific target organ toxicity (single exposure) – Category 3
STOT RE 1:	Specific target organ toxicity (repeated exposure) – Category 1
STOT RE 2:	Specific target organ toxicity (repeated exposure) – Category 2
Asp. Tox. 1:	Aspiration hazard – Category 1
Aquatic Chronic 3:	Hazardous to the aquatic environment - long-term aquatic hazard – Category 3
Aquatic Chronic 4:	Hazardous to the aquatic environment - long-term aquatic hazard – Category 4