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

Product Detail:

3821- Conductive translucent paint

Application of the substance / the preparation:

Manufacturer / supplier:

Surface Coating. For industrial and professional use only.

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

In an emergency, please contact your local/national poison control center (accessible only to medical personnel).

#### 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 Irrit. 2	Н319	Causes serious eye irritation.
Repr. 2	H361d	Suspected of damaging the unborn child.
STOT SE 3	Н335	May cause respiratory irritation.
STOT RE 2	Н373	May cause damage to the hearing organs through prolonged or repeated exposure.
Aquatic Chronic 3	H412	Harmful to aquatic life with long lasting effects.

#### 2.2 **Label Elements**



Hazard-determining components of labelling

Toluene

Xylene (mix)

4-hydroxy-4-methylpentan-2-one

Hazard Statements		
H225	Highly flammable liquid and vapour.	
H315	Causes skin irritation.	
H319	Causes serious eye irritation.	
H361d	Suspected of damaging the unborn child.	
H335	May cause respiratory irritation.	
H373	May cause damage to the hearing organs through prolonged or repeated exposure.	
H412	Harmful to aquatic life with long lasting effects.	

Revision date: 16-01-2024

Precautionary Statements		
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.	
P241	Use explosion-proof [electrical/ventilating/lighting] equipment.	
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water Take off contaminated clothing and wash it before reuse. (or shower).	
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Contunue rinsing.	
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:	CAS No. 108-88-3 Toluene	
vPvB:	CAS No. 108-88-3 Toluene	

### 3 COMPOSITION/INFORMATION ON INGREDIENTS

## 3.2 **Chemical characterisation:** Mixtures Flam. Liq. 3, H226; STOT RE 2, H373 Asp. Tox. 1, H304 CAS No: 1330-20-7 EINECS: 215-535-7 Reg.nr.: 01-2119488216->25-≤50% 32-xxxx Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 Aquatic Chronic 3, H412 CAS No: 123-42-2 EINECS: 204-626-7 Repr. 2, H361d >10-≤25% Reg.nr.: 01-2119473975-21 Eye Irrit. 2, H319 STOT SE 3, H335 Flam. Liq. 2, H225



Ethylbenzene

CAS No: 100-41-4
EINECS: 202-849-4
Reg.nr.: 01-2119489370-35

↑ Acute Tox. 4, H332

**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	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. If symptoms persist, 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

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 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:

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). 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.	

#### 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.

### 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. 123-42-2	4-hydroxy-4-methylpentan-2-one		
WEL	Short-term value:	362 mg/m³, 75 ppm	
	Long-term value:	241 mg/m³, 50 ppm	
CAS No. 108-88-3	Toluene		
WEL	Short-term value:	384 mg/m³, 100 ppm	Sk
	Long-term value:	191 mg/m³, 50 ppm	
CAS No. 67-63-0	Propan-2-ol		
WEL	Short-term value:	1250 mg/m³, 500 ppm	
	Long-term value:	999 mg/m³, 400 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	

#### **DNELs**

DIVLES		
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. 123-42-2	4-hydroxy-4-methylpentan-2-one	
Oral	DNEL	3 mg/day (Con)
Dermal	DNEL	9.4 mg/day (Ind)
Inhalative	DNEL	10.4 mg/m³ (Con)
		66.4 mg/m³ (Ind)
CAS No. 108-88-3		
Oral	DNEL	8.13 mg/day (Con)
Dermal	DNEL	226 mg/day (Con)
		384 mg/day (Ind)
Inhalative	DNEL	56.5 mg/m³ (Con)
		192 mg/m³ (Ind)
CAS No. 67-63-0	Propan-2-ol	
Oral	DNEL	26 mg/day (Con)
Dermal	DNEL	319 mg/day (Con)
		888 mg/day (Ind)
Inhalative	DNEL	89 mg/m³ (Con)

### **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

### **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 eyes and skin.	
Respiratory protection	When spraying the product, use a respiratory protective device.	(SO)
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
Colour	According to product specification
Odour	Characteristic
Odour threshold	Not determined.
pH-value	Not determined.
Change in condition	
Melting point/freezing point:	Undetermined.
Initial boiling point and boiling range:	82 °C
Flash point:	4 °C
Flammability (solid, gas):	Highly flammable.
Auto-ignition temperature:	425 ℃
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)	1.1Vol %
Explosion limit (Upper)	12 Vol %
Vapour pressure at 20 °C:	60.2 hPa
Density at 20 °C:	0.93 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 at 20°C)	200 mPas
Viscosity (Kinematic)	Not determined.
	Solvent content:
Organic solvents:	68.0 %
Solids content:	32.0 %

#### 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.

#### 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

Xylene (mix)			
	LD50	5,000 mg/kg (Rat)	
	LD50	2,000 mg/kg (rbt)	
	LC50/4h	11 mg/l (Rat)	
4-hydroxy-4-methylpentan-2-one			
	LD50	3,002 mg/kg (rat)	
	LD50	13,750 mg/kg (Rab)	
	LC50/4 h	7.6 mg/l (Rat)	
Toluene			
	LD50	5,580 mg/kg (Rat)	
	LD50	5,000 mg/kg (Rab)	
	LC50/4 h	20 mg/l (Rat)	
Propan-2-ol			
	LD50	5,840 mg/kg (Rat)	
	LD50	13,900 mg/kg (Rab)	
	LC50/4h	>25 mg/l (Rat)	
Ethylbenzene			
	LD50	3,500 mg/kg (rat)	
	LD50	17,800 mg/kg (rbt)	
	Xylene (mix)  4-hydroxy-4-methylpentan-2-one  Toluene  Propan-2-ol	LD50 LD50 LC50/4h  4-hydroxy-4-methylpentan-2-one  LD50 LD50 LD50 LC50/4 h  Toluene  LD50 LD50 LD50 LD50 LD50 LD50 LD50 LC50/4 h  Propan-2-ol LD50 LD50 LD50 LD50 LD50 LD50 LD50 LD50	LD50   5,000 mg/kg (Rat)     LD50   2,000 mg/kg (rbt)     LC50/4h   11 mg/l (Rat)     4-hydroxy-4-methylpentan-2-one     LD50   3,002 mg/kg (rat)     LD50   13,750 mg/kg (Rab)     LC50/4 h   7.6 mg/l (Rat)     Toluene     LD50   5,580 mg/kg (Rat)     LD50   5,000 mg/kg (Rab)     LD50   5,000 mg/kg (Rab)     LC50/4 h   20 mg/l (Rat)     Propan-2-ol     LD50   5,840 mg/kg (Rat)     LD50   13,900 mg/kg (Rab)     LD50   13,900 mg/kg (Rab)     LD50   25 mg/l (Rat)     LD50   25 mg/l (Rat)     LD50   25 mg/l (Rat)     Ethylbenzene

### **Primary irritant effect**

Skin corrosion/irritation	Causes skin irritation.
Serious eye damage/irritation	Causes serious eye irritation
Respiratory or skin sensitisation	Based on available data, the classification criteria are not met.

#### 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	Suspected of damaging the unborn child.
STOT-single exposure	May cause respiratory irritation.
STOT-repeated exposure	May cause damage to the hearing organs through prolonged or repeated exposure.
Aspiration hazard	Based on available data, the classification criteria are not met.

#### 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 Bio accumulative potential

No further relevant information available.

#### 12.4 Mobility in soil

No further relevant information available.

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

12.5Results of PBT and vPvB assessmentPBT:CAS No. 108-88-3ToluenevPvB:CAS No. 108-88-3Toluene

### 12.6 Other adverse effects

No further relevant information available.

### 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 packagin

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)



П

### 14.4 Packing group

ADR, IMDG, IATA

## 14.5 Environmental hazards:

Not applicable

#### 14.6 Special precautions for user

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

# 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:	30 ml
	Maximum net quantity per outer packaging:	500 ml
	Transport category	2
	Tunnel restriction code	D/E
IMDG	Limited quantities (LQ)	1L
	Excepted quantities (EQ)	Code: E2
	Maximum net quantity per inner packaging:	30 ml
	Maximum net quantity per outer packaging:	500 ml
UN "Model Regulation":	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/legislati

on specific for the substance or mixture

Poisons Act

Regulated explosives precursors
Regulated poisons
Reportable explosives precursors
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 68.0

Waterhazard 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.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
Н335	May cause respiratory irritation.
Н336	May cause drowsiness or dizziness.
H361d	Suspected of damaging the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.
H412	Harmful to aquatic life with long lasting effects.

#### Abbreviations and acronyms

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)
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
Sk; BMGV	Biological Monitoring Guidance Value
Eye Irrit. 2:	Serious eye damage/eye irritation – Category 2
Repr. 2:	Reproductive toxicity – 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
Aquatic Chronic 3:	Hazardous to the aquatic environment - long-term aquatic hazard – Category 3