CONDUCTIVE TRANSLUCENT AEROSOL PAINT 3821

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

Product Detail : 3821- Conductive translucent aerosol 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

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		
Aerosol 1	H222-H229	Extremely flammable aerosol. Pressurised container: May burst if heated.
Skin Irrit. 2	H315	Causes skin irritation.
Eye Irrit. 2	H319	Causes serious eye irritation.
STOT SE 3	H335	May cause respiratory 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 GB CLP regulation.	
Hazard pictograms	 GHS02 GHS07 GHS08
Signal Word:	Danger

Hazard Statements	
H222-H229	Extremely flammable aerosol. Pressurised container: May burst if heated.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory 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.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P362+P364	Take off contaminated clothing and wash it before reuse.
P405	Store locked up.
P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

Additional Information

Product contains: Buildup of explosive mixtures possible without sufficient ventilation.

Revision date: 16-01-2024

CONDUCTIVE TRANSLUCENT AEROSOL PAINT 3821

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:

CAS No: 115-10-6 EINECS: 204-065-8 Reg.nr.: 01-2119472128-37		Dimethyl ether Flam. Gas 1A, H220 Press. Gas (Comp.), H280	>50- ≤100%
CAS No: 1330-20-7 EINECS: 215-535-7 Reg.nr.: 01-2119488216-32-xxxx		Xylene (mix) Flam. Liq. 3, H226 STOT RE 2, H373 Asp. Tox. 1, H304 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 Aquatic Chronic 3, H412	>10- ≤25%
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 Acute Tox. 4, H332	>2.5- ≤10%

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.

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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 to enter sewers/ surface or ground water.

6.3 Methods and material for containment and cleaning up:

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

Ensure good ventilation/extraction at the workplace.

Hygiene measures	Wash hands before breaks and at the end of workday.
Information about fire- and explosion protection	Do not spray onto a naked flame or any incandescent material. Keep ignition sources away - Do not smoke. Keep respiratory protective device available.
Pressurised container	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

Storage:	
Requirements to be met by storerooms and receptacles	Observe official regulations on storing packagings with pressurised containers.
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.

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

CAS No. 115-10-6	dimethyl ether		
WEL	Short-term value:	958 mg/m³, 500 ppm	
	Long-term value:	766 mg/m³, 400 ppm	
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	

DNELs

CAS No. 115-10-6	dimethyl ether	
Inhalative	DNEL	471 mg/m³ (Con)
		1,894 mg/m³ (Ind)
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)

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.

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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.	
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	Clear
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	-42 °C
Flammability (solid, gas)	Not applicable.
Auto-ignition temperature	235 °C
Decomposition temperature	Not determined.
Ignition temperature	Product is not selfigniting.
Explosive properties	Heating may cause an explosion.
Explosion limit (Lower)	1.1 Vol %
Explosion limit (Upper)	18.6 Vol %
Vapour pressure at 20 °C	5,200 hPa
Density at 20 °C	0.753 g/cm³
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.
Viscosity (Kinematic)	Not determined.

Solvent content	
Organic solvents	91.2 %
Solids content	8.8 %

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

CAS No. 115-10-6	dimethyl ether		
Inhalative		LC50/4 h	248.49 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. 100-41-4	ethylbenzene		
Oral		LD50	3,500 mg/kg (rat)
Dermal		LD50	17,800 mg/kg (rbt)

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	Based on available data, the classification criteria are not met.
STOT-single exposure	May cause respiratory irritation.
STOT-repeated exposure	May cause damage to the hearing organs through prolonged or repeated exposure.
Aspiration hazard	May be fatal if swallowed and enters airways.

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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.

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.

12.5 Results of PBT and vPvB assessment
PBT: Not applicable
vPvB: Not applicable

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	UN1950

14.3 Transport hazard class(es)

ADR	1950 Aerosols
IMDG	Aerosols
IATA	Aerosols, flammable

14.2 UN proper shipping name

ADR	
Class	2 5F Gases
Label	2.1
IMDG, IATA	
Class	2.1 Gases
Label	2.1

14.4 Packing group

ADR, IMDG, IATA	Void

14.5 Environmental hazards:

Marine pollutant	No

14.6 Special precautions for user

Warning	Gases.	
Hazard identification number (Kemler code):		
EMS Number:	F-D, S-U	
Stowage Code	SW1 Protected from sources of heat.	
Segregation Code	SW22 For AEROSOLS with a maximum capacity of 1 litre	
	Category A. For AEROSOLS with a capacity above 1 litre	
	Category B. For WASTE AEROSOLS	
	Category C, Clear of living quarters.	
	SG69 For AEROSOLS with maximum capacity of 1 litre	Segregation as for class 9
		Stow "separated from" class 1 except for division 1.4.
	For AEROSOLS with a capacity above 1 litre	Segregation as for the appropriate subdivision of class 2
	For WASTE AEROSOLS:	Segregation as for the appropriate subdivision of class 2

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

Not applicable.

ADR	
Limited quantities (LQ)	1L
Excepted quantities (EQ)	Code: E0 Not permitted as Excepted Quantity
Transport category	2
Tunnel restriction code	D
IMDG	
Limited quantities (LQ)	1L
Excepted quantities (EQ)	Code: E0 Not permitted as Excepted Quantity
UN "Model Regulation"	UN 1950 AEROSOLS, 2.1

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	P3a FLAMMABLE AEROSOLS
	Qualifying quantity (tonnes) for the application of lower-tier requirements 150 t
	Qualifying quantity (tonnes) for the application of upper-tier requirements 500 t
National regulations:	Technical instructions (air): CLASS Share in % NK 91.2
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.

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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:

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.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H373	May cause damage to organs through prolonged or repeated exposure.
H412	Harmful to aquatic life with long lasting effects.

	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. Gas 1A:	Flammable gases – Category 1A
Aerosol 1:	Aerosols – Category 1
Press. Gas (Comp.):	Gases under pressure – Compressed gas
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 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