


CONDUCTIVE TRANSPARENT AEROSOL PAINT 3821

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

Product Detail : 3821- Conductive transparent aerosol paint
 Application of the substance / the preparation: Surface Coating
 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
 Emergency telephone number: Ph: +31(0)78- 204 90 00 (8:30AM- 5PM Monday- Friday)

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification According to directive 67/548/EEC or Directive 1999/45/EC Main hazards		
	Xn; Harmful R20/21: Harmful by inhalation or contact with skin	
		
	Xi; Irritant R38 Irritating to skin	F+; Extremely flammable R12 Extremely flammable

Information concerning particular hazards for human and environment

The product has to be labeled due to the calculation of the “General Classification Guideline for the preparations of the EU” in there latest valid version

Classification system

The classification is according to the latest editions of EU-list, and extended by company and literature data.
 1330-20-7 Xylene (mix)

2.2 Label elements

Labeling according to the EU guidelines


The product has to been classified and marked in accordance with EU Directives/Ordinance on Hazardous Materials

Code letter and hazard designation of the product

Xn Harmful
 F+ Extremely flammable

Hazard-determining components of labeling

Xylene (mix)

Risk Phrases	
12	Extremely Flammable
20/21	Harmful by inhalation and in contact with skin
38	Irritating to skin
GHS Symbols	 GHS02: Flammable
Safety Phrases	
7/9	Keep container tightly closed and in a well ventilated place
16	Keep away from sources of ignition – no smoking
23	Do not breath fumes/vapour/spray
25	Avoid contact with eyes
36/37	Wear suitable protective clothing and gloves
60	This material and its container must be disposed of as hazardous waste

CONDUCTIVE TRANSPARENT AEROSOL PAINT 3821

Special labelling of certain preparations

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50C.

Do not pierce or burn even after use.


Do not spray on a naked flame or any incandescent material

Build up of explosive mixtures possible without sufficient ventilation

3 COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Chemical characterisation: Mixtures

Description: Mixture of substances listed below with non-hazardous additions.

CAS: 115-10-6 EINECS: 204-065-8		Dimethyl ether F + R12	50-100%
CAS: 1330-20-7 EINECS: 215-535-7		Xylene (mix) Xi R38	25-50%
		Xn; R20/21 R10	
CAS 936-414-1		R20/21	>1%

Additional information: For wording of the listed risk phrases refer to section 16

4 FIRST AID MEASURES

4.1 Description of first aid measures

General information:	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
Skin Contact	Immediately wash with water and soap and rinse thoroughly
Eye Contact	Rinse open eye for several minutes under running water
After swallowing	If symptoms persist consult a 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

No further relevant information available

5 FIRE FIGHTING MEASURES

5.1 Extinguishing Media

Suitable extinguishable agents

CO₂, powder or water spray. Fight larger fires with water Spray or alcohol resistant foam.

For safety reasons unsuitable extinguishing agents: water with jet

5.2 Special hazards arising from the substance or mixture

No further relevant information available

5.3 Advice for Fire Fighters

Protective equipment: Mount respirator protective device



CONDUCTIVE TRANSPARENT AEROSOL PAINT 3821

6 ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions, protective equipment and emergency procedures

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 Item 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

Open and handle receptacle with care

Information about fire – and explosion protection

Keep ignition sources away – do not smoke

Protect against electrostatic charges

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50C i.e. electric lights

Do not spray onto naked flame or any incandescent material

7.2 Conditions for safe storage, including and incompatibilities

Storage

Requirements to be met by storerooms and receptacles

Store in a cool location

Observe official regulations on storing packages with pressurized containers

Information about storage in common storage facility

Further information about storage conditions:

Keep receptacle tightly sealed store in cool, dry conditions 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

Additional information about design of technical facilities no further data; see item 7



Ingredients with limit values that require monitoring at the workplace:	
	115-10-6 dimethyl ether
WEL	Short-term value : 958mg/m ³ , 500PPM
	Long-term value : 766mg/m ³ ,400PPM
	1330-20-7 Xylene (mix)
WEL	Short-term value : 441mg/m ³ , 100PPM
	Long-term value : 220mg//m ³ ,50PPM
Ingredients with biological limit values:	
	1330-20-7 Xylene (mix)
BMGV	650 mmol/mol creatinine
	Medium : urine
	Sampling time : post shift
	Parameter :methyl hippic acid

Additional information : the list valid during the making were used as basis

CONDUCTIVE TRANSPARENT AEROSOL PAINT 3821

8.2 Exposure Controls

Keep away from food stuffs, beverages and feed.
 Immediately remove all soiled and contaminated clothing
 Wash hands before breaks and at the end of work
 Avoid contact with skin
 Avoid contact with eyes

Individual Protection Measures	
Respiratory Protection	When spraying the product, use a respiratory protection device. When skin exposure may occur, advice should be sought from the glove supplier on appropriate types and usage times for this product
Protection of hands	 The glove material has to be impermeable and resistant to the product/substance the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.
Material of Gloves	The selection of suitable gloves does not only depend on the material but also on the further marks of quality and varies from manufacturer. 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
PENETRATION TIME OF GLOVE MATERIAL	The exact break through time has to be found out by the manufacturer of the protective glove and has to be observed
Eye Protection	 Tightly sealed goggles

9. PHYSICAL AND CHEMICAL PROPERTIES

Form	Liquid
Colour	Clear
Odour	Characteristic
Odour Threshold	Not determined
pH Value	Not determined
Melting point/Melting range	Undetermined
Boiling point/Boiling point range	-24 °C
Flash point	-42 °C
Flammability (solid gaseous)	applicable
Ignition temperature	-
Decomposition temperature	Not determined
Self-igniting	Product is not self igniting
Danger of Explosion	Not determined
Explosion limits lower	Not determined
Explosion limits Higher	Not determined
Vapour Pressure at 20 °C	Not determined
Density at 20 °C	0.735 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	92.2%
Water	-
Solids content	8.8%

9.2 Other Information

No further information available



CONDUCTIVE TRANSPARENT AEROSOL PAINT 3821

10 STABILITY AND REACTIVITY

10.1 Reactivity

No data available on this product

10.2 Chemical Stability

No data available on this product

Thermal decomposition

No decomposition if used according to the specifications

10.3 Possibility of Hazardous reactions

No dangerous reactions know

10.4 Conditions to be avoided

No further information available 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			
1330-20-7 Xylene (mix)	Oral	LD50	8700 mg/kg (rat)
	Dermal	LD50	2000 mg/kg (rabbit)
	Inhalative	LC50/4 h	6350 mg/l (rat)
Primary irritant effect:			
Skin Contact	Irritant to skin and mucous membranes		
Eye Contact	No irritating effect		
Sensitization	No sensitization effects known		
Additional toxicological information :			
The product shows the following dangers according to the calculation method of the general EU classification guidelines for preparations as issued in the latest version. Harmful Irritant			

12 ECOLOGICAL INFORMATION

12.1 Toxicity

Aquatic toxicity: no further information available

12.2 Persistence and degradability

No further relevant information is available

12.3 Bioaccumulative potential

No further relevant information is available

12.4 Mobility in soil

No further 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 in to the ground

12.5 Results of PBT and vPvB

PBT: not applicable

vPvB: not applicable

CONDUCTIVE TRANSPARENT AEROSOL PAINT 3821

12.6 Other adverse effects

No further relevant information available

13 DISPOSAL CONSIDERATIONS

13.1 waste treatment methods

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

ADR, IMDG, IATA



14.1 UN-Number

ADR, IMDG, IATA UN1950

14.2 UN Proper Shipping Name

ADR	1950 Aerosols
IMDG	Aerosols
IATA	

14.3 Transport Hazard Class

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

14.4 Packing Group

ADR, IMDG, IATA Void
Marine pollutant No

14.5 Environmental hazard

Special precautions for user Warning: Gases
Danger code (Kemler) -
EMS Number F-D, S-U

14.6 special precautions for user Warning Gases

Danger code (kemler): -
EMS number F-D-S-U

14.7 Transport Information

Transport in bulk according to Annex II Of MARPOL73/78 and the IBC Code	Not applicable
ADR	
Limited Quantities (LQ)	1L
Excepted quantities	code: E0
Transport category	2
Tunnel restriction code	D

CONDUCTIVE TRANSPARENT AEROSOL PAINT 3821

IMDG	
Limited quantities(LQ)	1L
Excepted (EQ)	Code: E0 Not permitted as a excepted quantity

15 REGULATORY INFORMATION

15.1 Safety, health and environment regulations/legislation specific for the substance or mixture

National regulations:

Technical instructions

Technical Instructions (air)

Class Share in %

NK 91.2

Water hazard class: water hazard class 2 self assessment :hazardous for water.

15.2 chemical safety assessment: a chemical safety assessment has not been carried out

Regulations

Commission regulation (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Regulation, Evaluation, Authorisation and Restriction of Chemicals (REACH) establishing a European Chemicals Agency amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 Council Directive 76/769/EEC and Commission Directive 91/155/EEC, 93/105/EC and 2000/21/EC.

Regulation (EC) No. 1907/2006 of the European Parliament and of the council of 18 December 2006 concerning the Regulation, Evaluation, Authorisation and Restriction of Chemicals (REACH) establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Directive (EEC) No 793/93 and Commission Regulation (EC) No 1488/94. Council Directive 76/769 Section 15: Regulatory Information /EEC and Commission Directives 91/155/EEC. (93/105/EC) and 2000/21/EC. EEC Regulation Reach 1907/2006 art.31 and EEC Regulation 1272/2008 (CLP/GHS)

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	
R10	Flammable
R12	Extremely flammable
R20/21	Harmful By inhalation and in contact with skin
R38	Irritation to skin

Departments issuing MSDS: product safety department: laboratory

Further Information

The information supplied in this Safety Data Sheet is designed only as guidance for the safe use, storage and handling of the product. This information is correct to the best of our knowledge and belief at the date of publication however no guarantee is made to its accuracy. This information related only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process.