Pgqp'Qtlgpv'*Uj cpi j ck+'Eq0'Nvf 0 Safety Data Sheet (SDS)

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According	g to Commission Regulation (EU) N	No 453/2010
Printing date 01.15.2018	Version number 1	Revision date 01.15.2018
1 SECTION 1: Identification of	the substance/mixture and of the	e company/undertaking
· 1.1 Product identifier		
· Product name: Daylight Fluores	cent ink Lemon yellow	
· Product type/code: FD-607		
· Registration number: No registr	ation number is given yet for this pr	roduct.
· 1.2 Relevant identified uses of	of the substance or mixture and	uses advised
against Identified uses: Used tow	vriting mark inks.	
Use advised against: No informa	ation available.	
1.2 Details of the supplier of the	safatu data abaat	
• 1.3 Details of the supplier of the	safety data sheet	
· Manufacturer/Supplier:		
P gqp'Qtkgpv'*Uj cpi j ck+'Eq0'Nv		
	7:5. "Napi napi "Tqcf 0" Qhhuj qtg" Qkn" () cpukqp+"Uj cpi j ck "R0[0'Ej kpc"
Postcode:"422252		
Tel:"- *: 8+"43/86862: 9:		

2 SECTION 2: Hazards identification

- · 2.1 Classification of the substance or mixture
- · Classification according to Regulation (EC) No 1272/2008 [CLP] The product is not classified according to the CLP regulation.
- · Classification according to Directive 67/548/EEC [DSD] or Directive 1999/45/EC [DPD]
- The product is not classified as dangerous.

· Classification system: The classification is according to the latest editions of the EU-lists, and extended by company and literature

- · 2.2 Label elements
- · Labelling according to Regulation (EC) No 1272/2008 [CLP] Void
- · Hazard pictogram(s): Void
- · Signal word: Void
- · Hazard statement(s): Void
- · Precautionary statements: Void
- · 2.3 Other hazards No information available.
- · Results of PBT and vPvB assessment: Not applicable.

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· PBT: Not applicable.

· vPvB: Not applicable.

3 SECTION 3: Composition/information on ingredients

- · 3.1 Chemical characterization: Mixtures
- · Description:

Product: consisting of the following components.

Ingredient	CAS No.	EC No.	Concentration
water	7732-18-5	231-791-2	70.0-90.0%
propane-1,2-dio	57-55-6	200-338-0	10.0-25.0%
glycerol	56-81-5	200-289-5	10.0-20.0%
Solvent Green 7	6358-69-6		1.0-4.0%
2,2',2"-nitrilotriethanol	102-71-6	203-049-8	< 1.0%
Surfactant	39464-66-9		0.1-0.5%

· Dangerous components: Void

4 SECTION 4: First aid measures

· 4.1 Description of first aid measures

· General information: In all cases of doubt, or when symptoms persist, seek medical attention. · Following inhalation:

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if breathing difficulties continue.

· Following skin contact: Immediately wash with water and soap and rinse thoroughly. · Following eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor. · Following ingestion:

Never give anything through mouth to an unconscious person. Get medical attention immediately. · Information for doctor: Symptomatic treatment is advised.

· 4.2 Most important symptoms and effects, both acute and delayed No information available.

· 4.3 Indication of any immediate medical attention and special treatment needed No information available.

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According to Commission Regulation (EU) No 453/2010

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5 SECTION 5: Firefighting measures

• 5.1 Extinguishing media

· Suitable extinguishing agents: CO2, dry chemical powder, water spray.

 \cdot 5.2 Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in case of fire.

In case of fire, the following can be released:

Carbon monoxide (CO), Carbon

dioxide Other irritating and toxic gases.

· 5.3 Advice for firefighters

Fire-fighters should wear appropriate breathing apparatus and protective equipment. Prevent fire-fighting w from entering surface water or groundwater.

6 SECTION 6: Accidental release measures

 \cdot 6.1 Personal precautions, protective equipment and emergency procedures Refer to Section 8 for personal protective equipment. Ensure adequate ventilation. Remove all sources of ig Evacuate personnel to safe areas.

· 6.2 Environmental precautions

Do not allow material to be released into the soil, sewerage systems and surface water. Inform respective authorities in case of seepage into water course or sewage system.

- · 6.3 Methods and material for containment and cleaning up Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose of the material collected according to regulations.
- · 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 SECTION 7: Handling and storage

· 7.1 Handling

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Handle in accordance with good industrial hygiene and safety practice. Use personal protective equipment as required.

Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. Use this material with adequate ventilation.

· Precautions for safe handling: No special precautions are necessary if used correctly.

· Information about fire - and explosion protection: Keep ignition sources away - Do not smoke.

· 7.2 Conditions for safe storage, including any incompatibilities

Store in cool, dry and well-ventilated place. Keep away from heat and ignition sources. Store away from incompatible materials.

· 7.3 Specific end use(s) Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

8 SECTION 8: Exposure controls/personal protection

· Information about design of technical facilities:

Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

· 8.1 Control parameters

• Ingredients with limit values that require monitoring at the workplace:

 5 mg/m^3

8		
57-55-6 propane-1,2-die	bl	
WEEL (USA)	10 mg/m ³	
56-81-5 glycerol		
PEL (USA)	15* 5** mg/m ³	
	*total dust **respirable fraction	
TLV (USA)	10* ppm	
	*Mist	
102-71-6 2,2',2"-nitrilot	riethanol	

TLV (USA)

· DNELs No information available

· PNECs No information available.

· 8.2 Exposure controls

· Appropriate engineering controls:

Technical measures and appropriate working operations should be given priority over the use of personal protective equipment. Provide local exhaust or process enclosure ventilation system.

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The work area set safety shower and eyewash equipment.

· Respiratory protection: Use suitable respiratory protective device in case of insufficient ventilation.

· Skin protection:



Protective gloves

· Material of gloves:

The selection of the suitable gloves does not only depend on the material, but also on further marks of quali and varies from manufacturer to manufacturer.

· Penetration time of glove material:

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye and face protection:



Tightly sealed goggles

· Body protection: Protective work clothing

9 SECTION 9: Physical and ch	emical properties		
9.1 Information on basic physical and chemical properties			
· Appearance:			
Form:	Liquid		
Colour:	Lemon yellow		
· Odour:	Not determined.		
· pH-value:	Not determined.		
· Melting point/Melting range:	Not determined.		
· Boiling point/Boiling range:	Not determined.		
· Flash point:	Not determined.		
· Flammability (solid, gaseous):	Not applicable.		
· Auto-Ignition temperature:	Not determined.		
· Decomposition temperature:	Not determined.		
· Self-igniting:	Product is not selfigniting.		
· Danger of explosion:	Product does not present an explosion hazard.		
· Vapour pressure:	Not determined.		
· Density:	Not determined.		

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Solubility in/Miscibility with:

Water: The product is aqueous solution.

· Partition coefficient (n-octanol/water): Not determined.

• 9.2 Additional information No further relevant information available.

10 SECTION 10: Stability and reactivity

- 10.1 Reactivity Stable under recommended storage and handling conditions (see section 7, handling and storage).
- · 10.2 Chemical stability Stable under normal conditions of use, storage and transport.

 \cdot 10.3 Possibility of hazardous reactions No dangerous reactions known.

- \cdot 10.4 Conditions to avoid Strong heating, fire. Incompatible materials.
- \cdot 10.5 Incompatible materials Strong acids, strong bases or strong oxidizing agents.
- 10.6 Hazardous decomposition products Carbon monoxide and carbon dioxide Other irritating and toxic gases.

11 SECTION 11: Toxicological information

· Acute toxicity: No data available.

 \cdot LD/LC50 values relevant for classification:

57-55-6 propane-1,2-diol Oral LD50 20000 mg/kg (rat) LD50 Dermal 20800 mg/kg (rabbit) 102-71-6 2,2',2"-nitrilotriethanol Oral LD50 4920 mg/kg (rat) Dermal LD50 > 2000 mg/kg (rabbit)56-81-5 glycerol LD50 Oral 12600 mg/kg (rat)

 \cdot Skin corrosion/irritation: No irritant effect.

· Serious eye damage/irritation: No irritating effect.

· Respiratory or skin sensitization: No sensitizing effects known.

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· Specific target organ system toxicity: No information available.

· CMR effects (carcinogenity, mutagenicity and toxicity for reproduction): No information available.

12 SECTION 12: Ecological information

· 12.1 Toxicity

· Acquatic toxicity:

57-55-6 propane-1,2-diol

EC50 - Crustacea 19000 mg/L/96 h mg/L/48h (Pseudokirchneriella Subcatitata) 34400 mg/L/48 h mg/L/48h (Daphnia magna) 51600 mg/L/96 h mg/L/48h (Onchorhynchus mykiss)

· 12.2 Persistence and degradability No further relevant information available.

· 12.3 Bioaccumulative potential No further relevant information available.

· 12.4 Mobility in soil No further relevant information available.

· 12.5 Results of PBT and vPvB assessment.

· PBT: Not applicable.

· vPvB: Not applicable.

· 12.6 Other adverse effects No information available.

13 SECTION 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 SECTION 14: Transport information

· 14.1 Land transport

· ADR/RID class: Not regulated.

· UN-Number:

14.2 Maritime transport

IMDG Class:

Not regulated.

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· UN Number:		Not applic	able.				
• Marine pollutant:		No					
· 14.3 Air transport							
· ICAO/IATA Class:		Not regula	ted.				
· UN/ID Number:		Not applic	able.				
· 14.4 Environmental	l hazards: No	t applicable	.				
· 14.5 Special precau	tions for user	Not applic	cable.				
· 14.6 Transport/Add	litional inform	nation: Not	dangerous	according to	o the above	specifications	
• 14.7 Transport in b			II of MAR	POL73/78 ar	nd the IBC	Code Not appl	icable.
15 SECTION 15: R							
· 15.1 Safety, health		nental regul	lations/legi	slation speci	fic for the s	ubstance or	
mixture EU Regular							
Authorisations: No							
Restrictions on use:		tion availat	ole.				
Regulatory informa	tion:						
CAS No.	7732-18-5			6358-69-6 3			
US-TSCA	Listed	Listed	Listed	Listed	Listed	Listed	
Canada-DSL	Listed	Listed	Listed	Listed	Listed	Listed	
Austrlia-AICS	Listed	Listed	Listed	Listed	Listed	Listed	
Korea-ECL	Listed	Listed	Listed	Listed	Listed	Listed	
China-IECSC	Listed	Listed	Listed	Listed	Listed	Listed	

· 15.2 Chemical safety assessment A Chemical Safety Assessment has not been carried out.

16 SECTION 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.

 \cdot Relevant phrases: Not applicable.

Neon Orient (Shanghai) Co., Ltd. Page 9/9 Safety Data Sheet (SDS) According to Commission Regulation (EU) No 453/2010 Printing date01.15.2018 Version number 1 Revision date 01.15.2018 • Training hints: Provide adequate information, instruction and training for operators. · Abbreviations and acronyms: AICS: Australian Inventory of Chemical Substances DSL/NDSL: Canadian Domestic Substances List/Non-Domestic Substances List ENCS: Japanese Existing and New Chemical Substances List ECL: Korean Existing Chemicals List **IECSC:** Chinese Inventory of Existing Chemical Substances TSCA: American Toxic Substances Control Act EINECS: European Inventory of Existing Commercial Chemical Substances ADR: Accord européen sur le transport des marchandises dangereuses par Route(European Agreement concerning the International Carriage of Dangerous Goods by Road) RID: Règlement international concernant le transport des marchandises dangereuses par chemin defer (Regulations Concerning the International Transport of Dangerous Goods by Rail) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association ICAO: International Civil Aviation Organization · Sources. GESTIS-database: Information system on hazardous substances of the German Social Accident Insurance. HSDB: Hazardous Substances Data Bank. ESIS: European chemical Substances Information System.

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Version number 1

Revision date 01.15.2018

1 SECTION 1: Identification of the substance/mixture and of the company/undertaking

· 1.1 Product identifier

· Product name: Daylight Fluorescent ink Green

- · Product type/code: FD-607
- · Registration number: No registration number is given yet for this product.
- 1.2 Relevant identified uses of the substance or mixture and uses advised against Identified uses: Used towriting mark inks.

Use advised against: No information available.

- \cdot 1.3 Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

P gqp'Qtkgpv'*Uj cpi j ck+'Eq0'Nvf0

Address: 'Tqqo '738'6'73: .'P q07: 5.'Nkpi nkpi 'Tqcf 0*Qhhuj qtg'Qkn'O cpukqp+'Uj cpi j ck 'R0T0Ej kpc'' Postcode: '422252

Tel:"- *: 8+43/86862: 9:

2 SECTION 2: Hazards identification

- \cdot 2.1 Classification of the substance or mixture
- Classification according to Regulation (EC) No 1272/2008 [CLP] The product is not classified according to the CLP regulation.
- · Classification according to Directive 67/548/EEC [DSD] or Directive 1999/45/EC [DPD]
- The product is not classified as dangerous.
- · Classification system:

The classification is according to the latest editions of the EU-lists, and extended by company and literature

- · 2.2 Label elements
- · Labelling according to Regulation (EC) No 1272/2008 [CLP] Void
- · Hazard pictogram(s): Void
- · Signal word: Void
- · Hazard statement(s): Void
- · Precautionary statements: Void
- · 2.3 Other hazards No information available.
- · Results of PBT and vPvB assessment: Not applicable.

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· PBT: Not applicable.

· vPvB: Not applicable.

3 SECTION 3: Composition/information on ingredients

· 3.1 Chemical characterization: Mixtures

· Description:

Product: consisting of the following components.

Ingredient	CAS No.	EC No.	Concentration
water	7732-18-5	231-791-2	70.0-90.0%
propane-1,2-dio	57-55-6	200-338-0	10.0-25.0%
glycerol	56-81-5	200-289-5	10.0-20.0%
Solvent Green 7	6358-69-6		1.0-4.0%
Direct Blue 86	1330-38-7		1.0-4.0%
2,2',2"-nitrilotriethanol	102-71-6	203-049-8	< 1.0%
Surfactant	39464-66-9		0.1-0.5%

· Dangerous components: Void

4 SECTION 4: First aid measures

· 4.1 Description of first aid measures

 \cdot General information: In all cases of doubt, or when symptoms persist, seek medical attention. \cdot Following inhalation:

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if breathing difficulties continue.

• Following skin contact: Immediately wash with water and soap and rinse thoroughly. • Following eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor. · Following ingestion:

Never give anything through mouth to an unconscious person. Get medical attention immediately. · Information for doctor: Symptomatic treatment is advised.

· 4.2 Most important symptoms and effects, both acute and delayed No information available.

· 4.3 Indication of any immediate medical attention and special treatment needed No information available.

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According to Commission Regulation (EU) No 453/2010

Printing date 01.15.2018 Version number 1 Revision date01.15.2018 **5 SECTION 5: Firefighting measures** • 5.1 Extinguishing media · Suitable extinguishing agents: CO2, dry chemical powder, water spray. \cdot 5.2 Special hazards arising from the substance or mixture Formation of toxic gases is possible during heating or in case of fire. In case of fire, the following can be released: Carbon monoxide (CO), Carbon dioxide Other irritating and toxic gases. · 5.3 Advice for firefighters Fire-fighters should wear appropriate breathing apparatus and protective equipment. Prevent fire-fighting'w from entering surface water or groundwater.

6 SECTION 6: Accidental release measures

· 6.1 Personal precautions, protective equipment and emergency procedures Refer to Section 8 for personal protective equipment. Ensure adequate ventilation. Remove all sources of ig Evacuate personnel to safe areas.

· 6.2 Environmental precautions

Do not allow material to be released into the soil, sewerage systems and surface water. Inform respective authorities in case of seepage into water course or sewage system.

· 6.3 Methods and material for containment and cleaning up Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose of the material collected according to regulations.

· 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 SECTION 7: Handling and storage

· 7.1 Handling

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Handle in accordance with good industrial hygiene and safety practice. Use personal protective equipment as required.

Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. Use this material with adequate ventilation.

· Precautions for safe handling: No special precautions are necessary if used correctly.

· Information about fire - and explosion protection: Keep ignition sources away - Do not smoke.

· 7.2 Conditions for safe storage, including any incompatibilities

Store in cool, dry and well-ventilated place. Keep away from heat and ignition sources. Store away from incompatible materials.

 \cdot 7.3 Specific end use(s) Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

8 SECTION 8: Exposure controls/personal protection

· Information about design of technical facilities:

Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

· 8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:
 57-55-6 propane-1,2-diol
 WEEL (USA)
 10 mg/m³
 56-81-5 glycerol
 PEL (USA)
 15* 5** mg/m³
 *total dust **respirable fraction
 10* ppm
 *Mist
 102-71-6 2,2',2"-nitrilotriethanol
 TLV (USA)
 5 mg/m³

· DNELs No information available.

· PNECs No information available.

- \cdot 8.2 Exposure controls
- · Appropriate engineering controls:

Technical measures and appropriate working operations should be given priority over the use of personal protective equipment. Provide local exhaust or process enclosure ventilation system.

The work area set safety shower and eyewash equipment.

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 \cdot Respiratory protection: Use suitable respiratory protective device in case of insufficient ventilation.

· Skin protection:



Protective gloves

· Material of gloves:

The selection of the suitable gloves does not only depend on the material, but also on further marks of quali and varies from manufacturer to manufacturer.

· Penetration time of glove material:

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

• Eye and face protection:



Tightly sealed goggles

· Body protection: Protective work clothing

9 SECTION 9: Physical and ch	emical properties	
· 9.1 Information on basic physical and chemical properties		
· Appearance:		
Form:	Liquid	
Colour:	Green	
· Odour:	Not determined.	
· pH-value:	Not determined.	
· Melting point/Melting range:	Not determined.	
· Boiling point/Boiling range:	Not determined.	
· Flash point:	Not determined.	
· Flammability (solid, gaseous):	Not applicable.	
· Auto-Ignition temperature:	Not determined.	
· Decomposition temperature:	Not determined.	
· Self-igniting:	Product is not selfigniting.	
· Danger of explosion:	Product does not present an explosion hazard.	
· Vapour pressure:	Not determined.	
· Density:	Not determined.	

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Water:

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• Solubility in/Miscibility with:

The product is aqueous solution.

· Partition coefficient (n-octanol/water): Not determined.

9.2 Additional information No further relevant information available.

10 SECTION 10: Stability and reactivity

- 10.1 Reactivity Stable under recommended storage and handling conditions (see section 7, handling and storage).
- \cdot 10.2 Chemical stability Stable under normal conditions of use, storage and transport.

 \cdot 10.3 Possibility of hazardous reactions No dangerous reactions known.

- \cdot 10.4 Conditions to avoid Strong heating, fire. Incompatible materials.
- \cdot 10.5 Incompatible materials Strong acids, strong bases or strong oxidizing agents.
- 10.6 Hazardous decomposition products
 Carbon monoxide and carbon dioxide
 Other irritating and toxic gases.

11 SECTION 11: Toxicological information

· Acute toxicity: No data available.

· LD/LC50 values relevant for classification:

57-55-6 propane-1,2-diol						
Oral	LD50	20000 mg/kg (rat)				
Dermal	LD50	20800 mg/kg (rabbit)				
102-71-6 2,2',2"-nitrilotriethanol						
Oral	LD50	4920 mg/kg (rat)				
Dermal	LD50	> 2000 mg/kg (rabbit)				
56-81-5 glycerol						
Oral	LD50	12600 mg/kg (rat)				

· Skin corrosion/irritation: No irritant effect.

· Serious eye damage/irritation: No irritating effect.

· Respiratory or skin sensitization: No sensitizing effects known.

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 \cdot Specific target organ system toxicity: No information available.

 \cdot CMR effects (carcinogenity, mutagenicity and toxicity for reproduction): No information available.

12 SECTION 12: Ecological information

· 12.1 Toxicity

· Acquatic toxicity:

57-55-6 propane-1,2-diol

EC50 - Crustacea 19000 mg/L/96 h mg/L/48h (Pseudokirchneriella Subcatitata) 34400 mg/L/48 h mg/L/48h (Daphnia magna) 51600 mg/L/96 h mg/L/48h (Onchorhynchus mykiss)

· 12.2 Persistence and degradability No further relevant information available.

· 12.3 Bioaccumulative potential No further relevant information available.

· 12.4 Mobility in soil No further relevant information available.

- \cdot 12.5 Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.

· 12.6 Other adverse effects No information available.

13 SECTION 13: Disposal considerations

- · 13.1 Waste treatment methods
- \cdot 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 SECTION 14: Transport information

· 14.1 Land transport

ADR/RID class: Not regulated.

· UN-Number:

· 14.2 Maritime transport

IMDG Class:

Not regulated.

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UN Number:		Not applica	ahle				
• Marine pollutant:		No No	aoi c .				
· 14.3 Air transport		110					
· ICAO/IATA Class	· ·	Not regula	ted				
· UN/ID Number:		Not applica					
14.4 Environmenta	al hazards [.] No						
		• appneaen					
14.5 Special preca	utions for use	r Not applic	cable.				
1 1							
14.6 Transport/Ad	ditional inform	nation: Not	t dangerous	s according	to the above	e specification	s.
14.7 Transport in b	oulk according	g to Annex	II of MAR	POL73/78 a	and the IBC	Code Not app	olicable.
15 SECTION 15: F	Regulatory in	formation					
15 SECTION 15: F 15.1 Safety, health			lations/legi	slation spec	ific for the	substance or	
	and environm		lations/legi	slation spec	ific for the	substance or	
15.1 Safety, health	and environmation:	nental regul	lations/legi	slation spec	ific for the	substance or	
15.1 Safety, health mixture EU Regula	and environr ation: information	nental regul available.	-	slation spec	ific for the	substance or	
15.1 Safety, health mixture EU Regula Authorisations: No	and environr ation: information e: No informa	nental regul available.	-	slation spec	ific for the	substance or	
15.1 Safety, health mixture EU Regula Authorisations: No Restrictions on use Regulatory informa	and environr ation: information e: No informa	nental regul available. tion availab	ble.	-			
15.1 Safety, health mixture EU Regula Authorisations: No Restrictions on use Regulatory informa CAS No.	and environmation: o information a e: No informa ation: 7732-18-5	nental regul available. tion availab	56-81-5	6358-69-6	1330-38-7	39464-66-9	
15.1 Safety, health mixture EU Regula Authorisations: No Restrictions on use Regulatory informa CAS No.	and environmation: o information a e: No informa ation: 7732-18-5	nental regul available. tion availab	56-81-5	6358-69-6	1330-38-7		
15.1 Safety, health mixture EU Regula Authorisations: No Restrictions on use Regulatory inform CAS No.	and environmation: ation: information a e: No informa ation: 7732-18-5	nental regul available. tion availab 	ble. 56-81-5	6358-69-6	1330-38-7	39464-66-9	
15.1 Safety, health mixture EU Regula Authorisations: No Restrictions on use Regulatory inform CAS No. US-TSCA	and environmation ation: information e: No informa ation: 7732-18-5 Listed	nental regul available. tion availab 57-55-6 Listed	ble. 56-81-5 Listed	6358-69-6 Listed	1330-38-7 Listed	39464-66-9 Listed	Listed
15.1 Safety, health mixture EU Regula Authorisations: No Restrictions on use Regulatory informa CAS No. US-TSCA Canada-DSL	and environmation ation: information e: No informa ation: 7732-18-5 Listed Listed	nental regul available. tion availab 	ble. 56-81-5 Listed Listed	6358-69-6 Listed Listed	1330-38-7 Listed Listed	39464-66-9 Listed Listed	Listed Listed

16 SECTION 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.

· Relevant phrases: Not applicable.

· Training hints: Provide adequate information, instruction and training for operators.

Pgqp'Qtkgpv'[#]Uj cpi j ck+'Eq0'Nvf 0 Safety Data Sheet (SDS)

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 \cdot Abbreviations and acronyms:

AICS: Australian Inventory of Chemical Substances

DSL/NDSL: Canadian Domestic Substances List/Non-Domestic Substances List

ENCS: Japanese Existing and New Chemical Substances List

ECL: Korean Existing Chemicals List

IECSC: Chinese Inventory of Existing Chemical Substances

TSCA: American Toxic Substances Control Act

EINECS: European Inventory of Existing Commercial Chemical Substances

ADR: Accord européen sur le transport des marchandises dangereuses par Route(European

Agreement concerning the International Carriage of Dangerous Goods by Road)

RID: Règlement international concernant le transport des marchandises dangereuses par chemin

defer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

ICAO: International Civil Aviation Organization

· Sources:

GESTIS-database: Information system on hazardous substances of the German Social Accident Insurance.

HSDB: Hazardous Substances Data Bank.

ESIS: European chemical Substances Information System.

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According to Commission Regulation (EU) No 453/2010

Printing date 01.15.2018 Version number 1 Revision date 01.15.2018 1 SECTION 1: Identification of the substance/mixture and of the company/undertaking · 1.1 Product identifier · Product name: Daylight Fluorescent ink Pink · Product type/code: FP · Registration number: No registration number is given yet for this product. · 1.2 Relevant identified uses of the substance or mixture and uses advised against Identified uses: Used towriting mark inks. Use advised against: No information available. · 1.3 Details of the supplier of the safety data sheet · Manufacturer/Supplier: Neon Orient (Shanghai) Co., Ltd. Address: Room 516 - 518, No. 583, Lingling Road. (Offshore Oil Mansion) Shanghai, P.R. China Postcode: 200030 Tel: +(86) 21-64640878

2 SECTION 2: Hazards identification

- \cdot 2.1 Classification of the substance or mixture
- Classification according to Regulation (EC) No 1272/2008 [CLP] The product is not classified according to the CLP regulation.
- · Classification according to Directive 67/548/EEC [DSD] or Directive 1999/45/EC [DPD]

The product is not classified as dangerous.

• Classification system: The classification is according to the latest editions of the EU-lists, and extended by company and literature

- · 2.2 Label elements
- · Labelling according to Regulation (EC) No 1272/2008 [CLP] Void
- · Hazard pictogram(s): Void
- · Signal word: Void
- · Hazard statement(s): Void
- · Precautionary statements: Void
- \cdot 2.3 Other hazards No information available.
- · Results of PBT and vPvB assessment: Not applicable.

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· PBT: Not applicable.

· vPvB: Not applicable.

3 SECTION 3: Composition/information on ingredients

· 3.1 Chemical characterization: Mixtures

· Description:

Product: consisting of the following components.

Ingredient	CAS No.	EC No.	Concentration
water	7732-18-5	231-791-2	40.0-60.0%
propane-1,2-dio	57-55-6	200-338-0	10.0-25.0%
glycerol	56-81-5	200-289-5	10.0-20.0%
Fluorescent Pigment-pink	58969-01-0		0.05-2.0%
Thermoplastic acrylic resin	25767-39-9		20.0-30.0%
2,2',2"-nitrilotriethanol	102-71-6	203-049-8	< 1.0%
Surfactant	39464-66-9		0.1-0.5%

· Dangerous components: Void

4 SECTION 4: First aid measures

· 4.1 Description of first aid measures

• General information: In all cases of doubt, or when symptoms persist, seek medical

attention. · Following inhalation:

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if breathing difficulties continue.

· Following skin contact: Immediately wash with water and soap and rinse

thoroughly. · Following eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor. · Following ingestion:

Never give anything through mouth to an unconscious person. Get medical attention immediately. · Information for doctor: Symptomatic treatment is advised.

 \cdot 4.2 Most important symptoms and effects, both acute and delayed No information available.

· 4.3 Indication of any immediate medical attention and special treatment needed No information available.

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· · · · · · · · · · · · · · · · · · ·	5 6 ()	
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5 SECTION 5: Firefighting me	asures	
• 5.1 Extinguishing media		
· Suitable extinguishing agents: C	CO2, dry chemical powder, water spi	ray.
• 5.2 Special hazards arising from	the substance or mixture	
Formation of toxic gases is poss	sible during heating or in case of fire	е.
In case of fire, the following car	i be released:	
Carbon monoxide (CO),	Carbon	
dioxide Other irritating and toxid	c gases.	
• 5.3 Advice for firefighters		
Fire-fighters should wear appro	priate breathing apparatus and prot	tective equipment. Prevent fire-fighting
w from entering surface water of	r groundwater.	
6 SECTION 6: Accidental relea	ise measures	
· 6.1 Personal precautions, protec	etive equipment and emergency proc	redures
Pafer to Section & for personal	protective equipment Ensure adea	uste ventilation Remove all sources of

- Refer to Section 8 for personal protective equipment. Ensure adequate ventilation. Remove all sources of ig Evacuate personnel to safe areas.
- · 6.2 Environmental precautions

Do not allow material to be released into the soil, sewerage systems and surface water. Inform respective authorities in case of seepage into water course or sewage system.

- 6.3 Methods and material for containment and cleaning up Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
 Dispose of the material collected according to regulations.
- 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 SECTION 7: Handling and storage

· 7.1 Handling

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According to Commission Regulation (EU) No 453/2010 Printing date 01.15.2018 Version number 1 Revision date 01.15.2018 Handle in accordance with good industrial hygiene and safety practice. Use personal protective equipment as required. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. Use this material with adequate ventilation. · Precautions for safe handling: No special precautions are necessary if used correctly. · Information about fire - and explosion protection: Keep ignition sources away - Do not smoke. · 7.2 Conditions for safe storage, including any incompatibilities Store in cool, dry and well-ventilated place. Keep away from heat and ignition sources. Store away from incompatible materials. · 7.3 Specific end use(s) Apart from the uses mentioned in section 1.2 no other specific uses are stipulated. **8 SECTION 8: Exposure controls/personal protection** · Information about design of technical facilities: Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits. · 8.1 Control parameters · Ingredients with limit values that require monitoring at the workplace: 57-55-6 propane-1,2-diol WEEL (USA) 10 mg/m^3

56-81-5 glycerol	
PEL (USA)	15* 5** mg/m ³
	*total dust **respirable fraction
TLV (USA)	10* ppm
	*Mist
102-71-6 2,2',2"-nitrilo	riethanol

 5 mg/m^3

· DNELs No information available.

· PNECs No information available.

 \cdot 8.2 Exposure controls

TLV (USA)

· Appropriate engineering controls:

Technical measures and appropriate working operations should be given priority over the use of personal protective equipment. Provide local exhaust or process enclosure ventilation system.

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The work area set safety shower and eyewash equipment.

· Respiratory protection: Use suitable respiratory protective device in case of insufficient ventilation.

· Skin protection:



Protective gloves

· Material of gloves:

The selection of the suitable gloves does not only depend on the material, but also on further marks of quali and varies from manufacturer to manufacturer.

· Penetration time of glove material:

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye and face protection:



Tightly sealed goggles

· Body protection: Protective work clothing

9 SECTION 9: Physical and ch	iemical properties
• 9.1 Information on basic physic	cal and chemical properties
· Appearance:	
Form:	Liquid
Colour:	Pink
· Odour:	Not determined.
· pH-value:	Not determined.
· Melting point/Melting range:	Not determined.
· Boiling point/Boiling range:	Not determined.
· Flash point:	Not determined.
· Flammability (solid, gaseous):	Not applicable.
· Auto-Ignition temperature:	Not determined.
· Decomposition temperature:	Not determined.
· Self-igniting:	Product is not selfigniting.
· Danger of explosion:	Product does not present an explosion hazard.
· Vapour pressure:	Not determined.
· Density:	Not determined.

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Solubility in/Miscibility with:

Water: The product is aqueous solution.

· Partition coefficient (n-octanol/water): Not determined.

9.2 Additional information No further relevant information available.

10 SECTION 10: Stability and reactivity

• 10.1 Reactivity Stable under recommended storage and handling conditions (see section 7, handling and storage).

· 10.2 Chemical stability Stable under normal conditions of use, storage and transport.

 \cdot 10.3 Possibility of hazardous reactions No dangerous reactions known.

 \cdot 10.4 Conditions to avoid Strong heating, fire. Incompatible materials.

 \cdot 10.5 Incompatible materials Strong acids, strong bases or strong oxidizing agents.

10.6 Hazardous decomposition products
 Carbon monoxide and carbon dioxide
 Other irritating and toxic gases.

11 SECTION 11: Toxicological information

· Acute toxicity: No data available.

· LD/LC50 values relevant for classification:

57-55-6 propane-1,2-c	diol		
Oral	LD50	20000 mg/kg (rat)	
Dermal	LD50	20800 mg/kg (rabbit)	
102-71-6 2,2',2"-nitril	otriethanol		
Oral	LD50	4920 mg/kg (rat)	
Dermal	LD50	> 2000 mg/kg (rabbit)	
56-81-5 glycerol			
Oral	LD50	12600 mg/kg (rat)	
G1 · · · · · ·			

· Skin corrosion/irritation: No irritant effect.

· Serious eye damage/irritation: No irritating effect.

· Respiratory or skin sensitization: No sensitizing effects known.

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 \cdot Specific target organ system toxicity: No information available.

· CMR effects (carcinogenity, mutagenicity and toxicity for reproduction): No information available.

12 SECTION 12: Ecological information

· 12.1 Toxicity

· Acquatic toxicity:

57-55-6 propane-1,2-diol

EC50 - Crustacea 19000 mg/L/96 h mg/L/48h (Pseudokirchneriella Subcatitata) 34400 mg/L/48 h mg/L/48h (Daphnia magna) 51600 mg/L/96 h mg/L/48h (Onchorhynchus mykiss)

· 12.2 Persistence and degradability No further relevant information available.

· 12.3 Bioaccumulative potential No further relevant information available.

· 12.4 Mobility in soil No further relevant information available.

· 12.5 Results of PBT and vPvB assessment

· PBT: Not applicable.

· vPvB: Not applicable.

· 12.6 Other adverse effects No information available.

13 SECTION 13: Disposal considerations

· 13.1 Waste treatment methods

 \cdot 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 SECTION 14: Transport information

· 14.1 Land transport

· ADR/RID class: Not regulated.

· UN-Number:

· 14.2 Maritime transport

IMDG Class: Not regulated.

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<u> </u>							
· UN Number:		Not applic	able.				
· Marine pollutant:		No					
· 14.3 Air transport							
· ICAO/IATA Class	5:	Not regula	ted.				
· UN/ID Number:		Not applic	able.				
· 14.4 Environmenta	al hazards: No	t applicable	e.				
 14.5 Special precative 14.6 Transport/Additional 				s according t	o the above	specification	15
14.0 Hansport/Au		nation. Not	i ualigetou:	s according t		specification	15.
			ПЕМАД	POI 73/78 at	nd the IBC	Code Not an	olicable
14.7 Transport in b			II OI MAK	1 OL / 5/ / 6 d			
15 SECTION 15: F	Regulatory in	formation					
15 SECTION 15: F · 15.1 Safety, health	Regulatory in and environn	formation					
15 SECTION 15: F • 15.1 Safety, health mixture EU Regula	Regulatory in and environn ation:	formation nental regu					
15 SECTION 15: F • 15.1 Safety, health mixture EU Regula Authorisations: No	Regulatory in and environn ation: information a	formation nental regu available.	lations/legi				
15 SECTION 15: F 15.1 Safety, health mixture EU Regula Authorisations: No Restrictions on use	Regulatory in and environn ation: information a e: No informa	formation nental regu available.	lations/legi				
15 SECTION 15: F 15.1 Safety, health mixture EU Regula Authorisations: No Restrictions on use Regulatory informa	Regulatory in and environmation: information a e: No information a ation:	formation nental regu available. tion availal	lations/legi ble.	islation speci	fic for the s	substance or	
15 SECTION 15: F 15.1 Safety, health mixture EU Regula Authorisations: No Restrictions on use	Regulatory in and environn ation: information a e: No informa ation:	formation nental regu available. tion availal	lations/legi ble.	islation speci	fic for the s	substance or	- 102-71-6
15 SECTION 15: F 15.1 Safety, health mixture EU Regula Authorisations: No Restrictions on use Regulatory informa	Regulatory in and environn ation: information a e: No informa ation:	formation nental regu available. tion availal	lations/legi ble.	islation speci	fic for the s	substance or	-
15 SECTION 15: F 15.1 Safety, health mixture EU Regula Authorisations: No Restrictions on use Regulatory informa CAS No.	Regulatory in and environm ation: o information a e: No informa ation: 7732-18-5	formation nental regu available. tion availal 57-55-6	lations/legi ble. 56-81-5	islation speci 58969-01-0	fic for the s 25767-39-9	substance or 39464-66-9	- 102-71-6
15 SECTION 15: F • 15.1 Safety, health mixture EU Regula Authorisations: No Restrictions on use Regulatory informa CAS No. US-TSCA	Regulatory in and environm ation: o information a e: No informa ation: 7732-18-5 Listed	formation nental regu available. tion availal 57-55-6 Listed	lations/legi ble. 56-81-5 Listed	islation speci 58969-01-0 Listed	fic for the s 25767-39-9 Listed	substance or 39464-66-9 Listed	- 102-71-6 - Listed
15 SECTION 15: F 15.1 Safety, health mixture EU Regula Authorisations: No Restrictions on use Regulatory informa CAS No. US-TSCA Canada-DSL	Regulatory in and environm ation: o information a e: No informa ation: 7732-18-5 Listed Listed	formation nental regu available. tion availal 57-55-6 Listed Listed	lations/legi ble. 56-81-5 Listed Listed	islation speci 58969-01-0 Listed Listed Listed	fic for the s 25767-39-9 Listed Listed	substance or 39464-66-9 Listed Listed	- 102-71-6 - Listed Listed

16 SECTION 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.

 \cdot Relevant phrases: Not applicable.

Safety Data Sheet (SDS) According to Commission Regulation (EU) No 453/2010 Printing date 01.15.2018 Version number 1 Revision date 01.15.2018 • Training hints: Provide adequate information, instruction and training for operators. · Abbreviations and acronyms: AICS: Australian Inventory of Chemical Substances DSL/NDSL: Canadian Domestic Substances List/Non-Domestic Substances List ENCS: Japanese Existing and New Chemical Substances List ECL: Korean Existing Chemicals List **IECSC:** Chinese Inventory of Existing Chemical Substances TSCA: American Toxic Substances Control Act EINECS: European Inventory of Existing Commercial Chemical Substances ADR: Accord européen sur le transport des marchandises dangereuses par Route(European Agreement concerning the International Carriage of Dangerous Goods by Road) RID: Règlement international concernant le transport des marchandises dangereuses par chemin defer (Regulations Concerning the International Transport of Dangerous Goods by Rail) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association ICAO: International Civil Aviation Organization · Sources. GESTIS-database: Information system on hazardous substances of the German Social Accident Insurance. HSDB: Hazardous Substances Data Bank.

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ESIS: European chemical Substances Information System.

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Accordin	g to Commission Regulation (EU) No	453/2010
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1 SECTION 1: Identification of	f the substance/mixture and of the co	ompany/undertaking
· 1.1 Product identifier		
· Product name: Daylight Fluores	scent ink Orange	
· Product type/code: FP		
· Registration number: No registr	ration number is given yet for this proc	luct.
• 1.2 Relevant identified uses of against Identified uses: Used too Use advised against: No informa	0	es advised
• 1.3 Details of the supplier of the	e safety data sheet	
· Manufacturer/Supplier:		
Neon Orient (Shanghai) Co., Ltd	d.	
Address: Room 516 – 518, No.	583, Lingling Road. (Offshore Oil Ma	nsion) Shanghai, P.R. China
Postcode: 200030		
Tel: +(86) 21-64640878		

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2 SECTION 2: Hazards identification

- · 2.1 Classification of the substance or mixture
- · Classification according to Regulation (EC) No 1272/2008 [CLP] The product is not classified according to the CLP regulation.
- · Classification according to Directive 67/548/EEC [DSD] or Directive 1999/45/EC [DPD]
- The product is not classified as dangerous.

· Classification system: The classification is according to the latest editions of the EU-lists, and extended by company and literature

- · 2.2 Label elements
- · Labelling according to Regulation (EC) No 1272/2008 [CLP] Void
- · Hazard pictogram(s): Void
- · Signal word: Void
- · Hazard statement(s): Void
- · Precautionary statements: Void
- · 2.3 Other hazards No information available.
- · Results of PBT and vPvB assessment: Not applicable.

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· PBT: Not applicable.

· vPvB: Not applicable.

3 SECTION 3: Composition/information on ingredients

· 3.1 Chemical characterization: Mixtures

· Description:

Product: consisting of the following components.

Ingredient	CAS No.	EC No.	Concentration
water	7732-18-5	231-791-2	40.0-60.0%
propane-1,2-dio	57-55-6	200-338-0	10.0-25.0%
glycerol	56-81-5	200-289-5	10.0-20.0%
Fluorescent Pigment-Orange	3520-72-7		1.0-4.0%
Thermoplastic acrylic resin	25767-39-9		20.0-30.0%
2,2',2"-nitrilotriethanol	102-71-6	203-049-8	< 1.0%
Surfactant	39464-66-9		0.1-0.5%

· Dangerous components: Void

4 SECTION 4: First aid measures

· 4.1 Description of first aid measures

• General information: In all cases of doubt, or when symptoms persist, seek medical

attention. · Following inhalation:

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if breathing difficulties continue.

· Following skin contact: Immediately wash with water and soap and rinse

thoroughly. · Following eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor. · Following ingestion:

Never give anything through mouth to an unconscious person. Get medical attention immediately. · Information for doctor: Symptomatic treatment is advised.

 \cdot 4.2 Most important symptoms and effects, both acute and delayed No information available.

· 4.3 Indication of any immediate medical attention and special treatment needed No information available.

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1 ...

According	to Commission Regulation (EU) N	10 453/2010
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5 SECTION 5: Firefighting meas	ures	
• 5.1 Extinguishing media		
• Suitable extinguishing agents: CC)? dry chamical navydar, watar sn	r01/
		lay.
• 5.2 Special hazards arising from t	he substance or mixture	
Formation of toxic gases is possib	ble during heating or in case of fire	е.
In case of fire, the following can b	be released:	
Carbon monoxide (CO), C	Carbon	
dioxide Other irritating and toxic	gases.	
• 5.3 Advice for firefighters		
Fire-fighters should wear appropriate	riate breathing apparatus and prot	ective equipment. Prevent
fire-fighting w from entering surfa	ace water or groundwater.	
6 SECTION 6: Accidental release	e measures	
· 6.1 Personal precautions, protectiv	ve equipment and emergency proc	edures
Refer to Section 8 for personal p	rotective equipment. Ensure adeq	uate ventilation. Remove all sources

of ig Evacuate personnel to safe areas.

· 6.2 Environmental precautions

Do not allow material to be released into the soil, sewerage systems and surface water. Inform respective authorities in case of seepage into water course or sewage system.

· 6.3 Methods and material for containment and cleaning up Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose of the material collected according to regulations.

· 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 SECTION 7: Handling and storage

· 7.1 Handling

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Handle in accordance with good industrial hygiene and safety practice. Use personal protective equipment as required.

Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. Use this material with adequate ventilation.

· Precautions for safe handling: No special precautions are necessary if used correctly.

· Information about fire - and explosion protection: Keep ignition sources away - Do not smoke.

· 7.2 Conditions for safe storage, including any incompatibilities

Store in cool, dry and well-ventilated place. Keep away from heat and ignition sources. Store away from incompatible materials.

 \cdot 7.3 Specific end use(s) Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

8 SECTION 8: Exposure controls/personal protection

· Information about design of technical facilities:

Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

· 8.1 Control parameters

 \cdot Ingredients with limit values that require monitoring at the workplace:

57-55-6 propane-1,2-di	1
WEEL (USA)	10 mg/m ³
56-81-5 glycerol	
PEL (USA)	15* 5** mg/m ³
	*total dust **respirable fraction
TLV (USA)	10* ppm
	*Mist
102-71-6 2,2',2"-nitrilo	iethanol
TLV (USA)	5 mg/m^3

• DNELs No information available.

· PNECs No information available.

- \cdot 8.2 Exposure controls
- · Appropriate engineering controls:

Technical measures and appropriate working operations should be given priority over the use of personal protective equipment. Provide local exhaust or process enclosure ventilation system.

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Printing date01.15.2018

Version number 1

Revision date 01.15.2018

The work area set safety shower and eyewash equipment.

· Respiratory protection: Use suitable respiratory protective device in case of insufficient ventilation.

· Skin protection:



Protective gloves

· Material of gloves:

The selection of the suitable gloves does not only depend on the material, but also on further marks of quali and varies from manufacturer to manufacturer.

· Penetration time of glove material:

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye and face protection:



Tightly sealed goggles

· Body protection: Protective work clothing

9 SECTION 9: Physical and ch	emical properties
• 9.1 Information on basic physic	al and chemical properties
· Appearance:	
Form:	Liquid
Colour:	Orange
· Odour:	Not determined.
· pH-value:	Not determined.
· Melting point/Melting range:	Not determined.
· Boiling point/Boiling range:	Not determined.
· Flash point:	Not determined.
· Flammability (solid, gaseous):	Not applicable.
· Auto-Ignition temperature:	Not determined.
· Decomposition temperature:	Not determined.
· Self-igniting:	Product is not selfigniting.
· Danger of explosion:	Product does not present an explosion hazard.
· Vapour pressure:	Not determined.
· Density:	Not determined.

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Solubility in/Miscibility with:

Water: The product is aqueous solution.

· Partition coefficient (n-octanol/water): Not determined.

9.2 Additional information No further relevant information available.

10 SECTION 10: Stability and reactivity

• 10.1 Reactivity Stable under recommended storage and handling conditions (see section 7, handling and storage).

 \cdot 10.2 Chemical stability Stable under normal conditions of use, storage and transport.

 \cdot 10.3 Possibility of hazardous reactions No dangerous reactions known.

 \cdot 10.4 Conditions to avoid Strong heating, fire. Incompatible materials.

 \cdot 10.5 Incompatible materials Strong acids, strong bases or strong oxidizing agents.

10.6 Hazardous decomposition products
 Carbon monoxide and carbon dioxide
 Other irritating and toxic gases.

11 SECTION 11: Toxicological information

· Acute toxicity: No data available.

· LD/LC50 values relevant for classification:

57-55-6 propane-1,2-c	diol		
Oral	LD50	20000 mg/kg (rat)	
Dermal	LD50	20800 mg/kg (rabbit)	
102-71-6 2,2',2"-nitril	otriethanol		
Oral	LD50	4920 mg/kg (rat)	
Dermal	LD50	> 2000 mg/kg (rabbit)	
56-81-5 glycerol			
Oral	LD50	12600 mg/kg (rat)	
G1 · · · · · ·			

· Skin corrosion/irritation: No irritant effect.

· Serious eye damage/irritation: No irritating effect.

· Respiratory or skin sensitization: No sensitizing effects known.

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 \cdot Specific target organ system toxicity: No information available.

· CMR effects (carcinogenity, mutagenicity and toxicity for reproduction): No information available.

12 SECTION 12: Ecological information

· 12.1 Toxicity

· Acquatic toxicity:

57-55-6 propane-1,2-diol

EC50 - Crustacea 19000 mg/L/96 h mg/L/48h (Pseudokirchneriella Subcatitata) 34400 mg/L/48 h mg/L/48h (Daphnia magna) 51600 mg/L/96 h mg/L/48h (Onchorhynchus mykiss)

· 12.2 Persistence and degradability No further relevant information available.

· 12.3 Bioaccumulative potential No further relevant information available.

· 12.4 Mobility in soil No further relevant information available.

· 12.5 Results of PBT and vPvB assessment

· PBT: Not applicable.

· vPvB: Not applicable.

· 12.6 Other adverse effects No information available.

13 SECTION 13: Disposal considerations

· 13.1 Waste treatment methods

 \cdot 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 SECTION 14: Transport information

· 14.1 Land transport

· ADR/RID class: Not regulated.

· UN-Number:

· 14.2 Maritime transport

IMDG Class: Not regulated.

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· UN Number:		Not applic	able.				
· Marine pollutant:		No					
· 14.3 Air transport							
· ICAO/IATA Class	5:	Not regula	ted.				
· UN/ID Number:		Not applic	able.				
14.4 Environmenta	al hazards: No	ot applicable	e.				
14.5 Special preca					1 1	· ~ ,·	
· 14.6 Transport/Ad	ditional inform	nation: Not	t dangerous	s according	to the above	e specification	IS.
					ad the IDC	Cada Natan	alianhla
• 14.7 Transport in b			II of MAR	POL73/78 a			
15 SECTION 15: H	Regulatory in	formation					
15 SECTION 15: F 15.1 Safety, health	Regulatory in and environm	formation					
15 SECTION 15: F 15.1 Safety, health mixture EU Regula	Regulatory in and environn ation:	formation nental regu					
15 SECTION 15: F 15.1 Safety, health mixture EU Regula Authorisations: No	Regulatory in and environn ation: o information a	formation nental reguination	lations/legi				
15 SECTION 15: F 15.1 Safety, health mixture EU Regula Authorisations: No Restrictions on use	Regulatory in and environn ation: information a e: No informa	formation nental reguination	lations/legi				
15 SECTION 15: F 15.1 Safety, health mixture EU Regula Authorisations: No	Regulatory in and environm ation: information a e: No informa ation:	formation nental reguination available. tion availab	lations/legi ble.	slation spec	ific for the	substance or	<u>-</u>
15 SECTION 15: F 15.1 Safety, health mixture EU Regula Authorisations: No Restrictions on use Regulatory inform CAS No.	Regulatory in and environm ation: o information a e: No informa ation: 7732-18-5	formation nental reguinavailable. tion available	lations/legi ble. 56-81-5	slation spec 3520-72-7	ific for the s 25767-39-9	substance or 39464-66-9	- 102-71-6
15 SECTION 15: F 15.1 Safety, health mixture EU Regula Authorisations: No Restrictions on use Regulatory inform CAS No.	Regulatory in and environm ation: o information a e: No informa ation:	formation nental reguinavailable. tion available	lations/legi ble. 56-81-5	slation spec 3520-72-7	ific for the s 25767-39-9	substance or 39464-66-9	- 102-71-6
15 SECTION 15: F 15.1 Safety, health mixture EU Regula Authorisations: No Restrictions on use Regulatory inform CAS No.	Regulatory in and environm ation: o information a e: No informa ation: 7732-18-5	formation nental regularized available. tion available 57-55-6	lations/legi ble. 56-81-5	slation spec 3520-72-7	ific for the s	substance or 39464-66-9	- 102-71-6
15 SECTION 15: F 15.1 Safety, health mixture EU Regula Authorisations: No Restrictions on use Regulatory inform CAS No. US-TSCA	Regulatory in and environm ation: o information a e: No informa ation: 7732-18-5 Listed	formation nental regu available. tion availab 57-55-6 Listed	lations/legi ble. 56-81-5 Listed	slation spec 3520-72-7 Listed	ific for the s 25767-39-9 Listed	substance or 39464-66-9 Listed	- 102-71-6 - Listed
15 SECTION 15: F 15.1 Safety, health mixture EU Regula Authorisations: No Restrictions on use Regulatory inform CAS No. US-TSCA Canada-DSL	Regulatory in and environmation: o information a e: No informa ation: 7732-18-5 Listed Listed	formation nental reguinavailable. tion available 57-55-6 Listed Listed	lations/legi ble. 56-81-5 Listed Listed	slation spec 3520-72-7 Listed Listed	ific for the s 25767-39-9 Listed Listed	substance or 39464-66-9 Listed Listed	- 102-71-6 - Listed Listed

16 SECTION 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.

 \cdot Relevant phrases: Not applicable.

Safety Data Sheet (SDS) According to Commission Regulation (EU) No 453/2010 Printing date 01.15.2018 Version number 1 Revision date 09 25 2015 • Training hints: Provide adequate information, instruction and training for operators. · Abbreviations and acronyms: AICS: Australian Inventory of Chemical Substances DSL/NDSL: Canadian Domestic Substances List/Non-Domestic Substances List ENCS: Japanese Existing and New Chemical Substances List ECL: Korean Existing Chemicals List **IECSC:** Chinese Inventory of Existing Chemical Substances TSCA: American Toxic Substances Control Act EINECS: European Inventory of Existing Commercial Chemical Substances ADR: Accord européen sur le transport des marchandises dangereuses par Route(European Agreement concerning the International Carriage of Dangerous Goods by Road) RID: Règlement international concernant le transport des marchandises dangereuses par chemin defer (Regulations Concerning the International Transport of Dangerous Goods by Rail) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association ICAO: International Civil Aviation Organization · Sources: GESTIS-database: Information system on hazardous substances of the German Social Accident Insurance. HSDB: Hazardous Substances Data Bank.

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ESIS: European chemical Substances Information System.

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1 SECTION 1: Identification of the substance/mixture and of the company/undertaking

· 1.1 Product identifier

· Product name: Daylight Fluorescent ink Blue

· Product type/code: FD-607

· Registration number: No registration number is given yet for this product.

• 1.2 Relevant identified uses of the substance or mixture and uses advised against Identified uses: Used towriting mark inks.

Use advised against: No information available.

- \cdot 1.3 Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

P gqp''Qtkgpv'*Uj cpi j ck+'Eq0''Nvf0

Address: 'Tqqo '738'6'73: .'Pq07: 5.'Nkpi nkpi 'Tqcf 0*Qhhuj qtg'Qkn'O cpukqp+'Uj cpi j ck 'R0F0'Ej kpc'' Postcode: ''422252

Tel:"- *: 8+43/86862: 9:

2 SECTION 2: Hazards identification

- \cdot 2.1 Classification of the substance or mixture
- Classification according to Regulation (EC) No 1272/2008 [CLP] The product is not classified according to the CLP regulation.
- · Classification according to Directive 67/548/EEC [DSD] or Directive 1999/45/EC [DPD]

The product is not classified as dangerous.

• Classification system: The classification is according to the latest editions of the EU-lists, and extended by company and literature

- · 2.2 Label elements
- · Labelling according to Regulation (EC) No 1272/2008 [CLP] Void
- · Hazard pictogram(s): Void
- · Signal word: Void
- · Hazard statement(s): Void
- \cdot Precautionary statements: Void
- \cdot 2.3 Other hazards No information available.
- · Results of PBT and vPvB assessment: Not applicable.

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· PBT: Not applicable.

· vPvB: Not applicable.

3 SECTION 3: Composition/information on ingredients

· 3.1 Chemical characterization: Mixtures

· Description:

Product: consisting of the following components.

Ingredient	CAS No.	EC No.	Concentration
water propane-1,2-dio	7732-18-5 57-55-6	231-791-2 200-338-0	70.0-90.0% 10.0-25.0%
glycerol	56-81-5	200-289-5	10.0-20.0%
C.I. Acid Blue 9 2,2',2"-nitrilotriethanol	2650-18-2 102-71-6	220-168-0 203-049-8	1.0-4.0% < 1.0%
Surfactant	39464-66-9		0.1-0.5%

· Dangerous components: Void

4 SECTION 4: First aid measures

· 4.1 Description of first aid measures

 \cdot General information: In all cases of doubt, or when symptoms persist, seek medical

attention. \cdot Following inhalation:

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if breathing difficulties continue.

· Following skin contact: Immediately wash with water and soap and rinse

thoroughly. · Following eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor. · Following ingestion:

Never give anything through mouth to an unconscious person. Get medical attention immediately. · Information for doctor: Symptomatic treatment is advised.

 \cdot 4.2 Most important symptoms and effects, both acute and delayed No information available.

· 4.3 Indication of any immediate medical attention and special treatment needed No information available.

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5 SECTION 5: Firefighting meas	sures	
· 5.1 Extinguishing media		
· Suitable extinguishing agents: CO	D2, dry chemical powder, water spi	ray.
\cdot 5.2 Special hazards arising from	the substance or mixture	
Formation of toxic gases is possi	ble during heating or in case of fire	2.
In case of fire, the following can	be released:	
Carbon monoxide (CO),	Carbon	
dioxide Other irritating and toxic	gases.	
• 5.3 Advice for firefighters		
Fire-fighters should wear approp	priate breathing apparatus and prot	ective equipment. Prevent
fire-fighting'w from entering surf	ace water or groundwater.	
6 SECTION 6: Accidental releas	e measures	
· 6.1 Personal precautions, protection	ive equipment and emergency proce	edures

Refer to Section 8 for personal protective equipment. Ensure adequate ventilation. Remove all sources of ig Evacuate personnel to safe areas.

· 6.2 Environmental precautions

Do not allow material to be released into the soil, sewerage systems and surface water. Inform respective authorities in case of seepage into water course or sewage system.

6.3 Methods and material for containment and cleaning up Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose of the material collected according to regulations.

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 SECTION 7: Handling and storage

· 7.1 Handling

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Handle in accordance with good industrial hygiene and safety practice. Use personal protective equipment as required.

Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. Use this material with adequate ventilation.

· Precautions for safe handling: No special precautions are necessary if used correctly.

· Information about fire - and explosion protection: Keep ignition sources away - Do not smoke.

· 7.2 Conditions for safe storage, including any incompatibilities

Store in cool, dry and well-ventilated place. Keep away from heat and ignition sources. Store away from incompatible materials.

 \cdot 7.3 Specific end use(s) Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

8 SECTION 8: Exposure controls/personal protection

· Information about design of technical facilities:

Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

· 8.1 Control parameters

 \cdot Ingredients with limit values that require monitoring at the workplace:

57-55-6 propane-1,2-di	1
WEEL (USA)	10 mg/m ³
56-81-5 glycerol	
PEL (USA)	15* 5** mg/m ³
	*total dust **respirable fraction
TLV (USA)	10* ppm
	*Mist
102-71-6 2,2',2"-nitrilo	iethanol
TLV (USA)	5 mg/m^3

· DNELs No information available.

· PNECs No information available.

- \cdot 8.2 Exposure controls
- · Appropriate engineering controls:

Technical measures and appropriate working operations should be given priority over the use of personal protective equipment. Provide local exhaust or process enclosure ventilation system.

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The work area set safety shower and eyewash equipment.

· Respiratory protection: Use suitable respiratory protective device in case of insufficient ventilation.

· Skin protection:



Protective gloves

· Material of gloves:

The selection of the suitable gloves does not only depend on the material, but also on further marks of quali and varies from manufacturer to manufacturer.

· Penetration time of glove material:

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye and face protection:



Tightly sealed goggles

· Body protection: Protective work clothing

9 SECTION 9: Physical and ch	iemical properties			
· 9.1 Information on basic physical and chemical properties				
· Appearance:				
Form:	Liquid			
Colour:	Blue			
· Odour:	Not determined.			
· pH-value:	Not determined.			
· Melting point/Melting range:	Not determined.			
· Boiling point/Boiling range:	Not determined.			
· Flash point:	Not determined.			
· Flammability (solid, gaseous):	Not applicable.			
· Auto-Ignition temperature:	Not determined.			
· Decomposition temperature:	Not determined.			
· Self-igniting:	Product is not selfigniting.			
· Danger of explosion:	Product does not present an explosion hazard.			
· Vapour pressure:	Not determined.			
· Density:	Not determined.			

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Solubility in/Miscibility with:

Water: The product is aqueous solution.

· Partition coefficient (n-octanol/water): Not determined.

9.2 Additional information No further relevant information available.

10 SECTION 10: Stability and reactivity

• 10.1 Reactivity Stable under recommended storage and handling conditions (see section 7, handling and storage).

 \cdot 10.2 Chemical stability Stable under normal conditions of use, storage and transport.

 \cdot 10.3 Possibility of hazardous reactions No dangerous reactions known.

 \cdot 10.4 Conditions to avoid Strong heating, fire. Incompatible materials.

 \cdot 10.5 Incompatible materials Strong acids, strong bases or strong oxidizing agents.

10.6 Hazardous decomposition products
 Carbon monoxide and carbon dioxide
 Other irritating and toxic gases.

11 SECTION 11: Toxicological information

· Acute toxicity: No data available.

· LD/LC50 values relevant for classification:

57-55-6 propane-1,2-c	liol		
Oral	LD50	20000 mg/kg (rat)	
Dermal	LD50	20800 mg/kg (rabbit)	
102-71-6 2,2',2"-nitril	otriethanol		
Oral	LD50	4920 mg/kg (rat)	
Dermal	LD50	> 2000 mg/kg (rabbit)	
56-81-5 glycerol			
Oral	LD50	12600 mg/kg (rat)	
<u> </u>			

· Skin corrosion/irritation: No irritant effect.

· Serious eye damage/irritation: No irritating effect.

· Respiratory or skin sensitization: No sensitizing effects known.

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 \cdot Specific target organ system toxicity: No information available.

· CMR effects (carcinogenity, mutagenicity and toxicity for reproduction): No information available.

12 SECTION 12: Ecological information

· 12.1 Toxicity

· Acquatic toxicity:

57-55-6 propane-1,2-diol

EC50 - Crustacea 19000 mg/L/96 h mg/L/48h (Pseudokirchneriella Subcatitata) 34400 mg/L/48 h mg/L/48h (Daphnia magna) 51600 mg/L/96 h mg/L/48h (Onchorhynchus mykiss)

· 12.2 Persistence and degradability No further relevant information available.

· 12.3 Bioaccumulative potential No further relevant information available.

· 12.4 Mobility in soil No further relevant information available.

- · 12.5 Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.

· 12.6 Other adverse effects No information available.

13 SECTION 13: Disposal considerations

- · 13.1 Waste treatment methods
- \cdot 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 SECTION 14: Transport information

· 14.1 Land transport

· ADR/RID class: Not regulated.

· UN-Number:

· 14.2 Maritime transport

IMDG Class: Not regulated.

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· UN Number:		Not applica	able.				
· Marine pollutant:		No					
· 14.3 Air transport							
· ICAO/IATA Class	3:	Not regula	ted.				
· UN/ID Number:		Not applica	able.				
· 14.4 Environmenta	al hazards: No	t applicable	e.				
· 14.5 Special preca							
· 14.6 Transport/Ad	ditional inform	nation: Not	angerous	s according to	o the above	specification	S.
				POI 73/78 at	nd the IBC	Code Not apr	olicable.
• 14.7 Transport in b 15 SECTION 15: F							
	Regulatory in	formation					
15 SECTION 15: F	Regulatory in and environm	formation					
15 SECTION 15: F · 15.1 Safety, health	Regulatory in and environn ation:	formation nental regul					
15 SECTION 15: F • 15.1 Safety, health mixture EU Regula	Regulatory in and environm ation: information a	formation nental regul available.	lations/legi				
15 SECTION 15: F · 15.1 Safety, health mixture EU Regula Authorisations: No	Regulatory in and environn ation: information a e: No information	formation nental regul available.	lations/legi				
15 SECTION 15: F • 15.1 Safety, health mixture EU Regula Authorisations: No Restrictions on use Regulatory informa CAS No.	Regulatory in and environn ation: o information a e: No informat ation: 7732-18-5	formation nental regul available. tion availab	lations/legi ble. 56-81-5	slation speci 2650-18-2 3	fic for the s 9464-66-9	Substance or 102-71-6	
15 SECTION 15: F • 15.1 Safety, health mixture EU Regula Authorisations: No Restrictions on use Regulatory informa CAS No.	Regulatory int and environn ation: information a e: No informa- ation:	formation nental regul available. tion availab	lations/legi ble. 56-81-5	slation speci 2650-18-2 3	fic for the s 9464-66-9	Substance or 102-71-6	
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15 SECTION 15: F • 15.1 Safety, health mixture EU Regula Authorisations: No Restrictions on use Regulatory informa CAS No. US-TSCA	Regulatory int and environn ation: o information a e: No informat ation: 7732-18-5 Listed	formation nental regul available. tion availab 57-55-6 Listed	lations/legi ole. 56-81-5 Listed	slation speci 2650-18-2 3 Listed	fic for the s 9464-66-9 Listed	Substance or 102-71-6 Listed	
15 SECTION 15: F • 15.1 Safety, health mixture EU Regula Authorisations: No Restrictions on use Regulatory informa CAS No. US-TSCA Canada-DSL	Regulatory int and environn ation: o information a e: No informat ation: 7732-18-5 Listed Listed	formation nental regul available. tion availab 57-55-6 Listed Listed	lations/legi ble. 56-81-5 Listed Listed	slation speci 2650-18-2 3 Listed Listed	fic for the s 9464-66-9 Listed Listed	Substance or 102-71-6 Listed Listed	

16 SECTION 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. • Relevant phrases: Not applicable.

Safety Data Sheet (SDS) According to Commission Regulation (EU) No 453/2010 Printing date 01.15.2018 Version number 1 Revision date 01.15.2018 • Training hints: Provide adequate information, instruction and training for operators. · Abbreviations and acronyms: AICS: Australian Inventory of Chemical Substances DSL/NDSL: Canadian Domestic Substances List/Non-Domestic Substances List ENCS: Japanese Existing and New Chemical Substances List ECL: Korean Existing Chemicals List **IECSC:** Chinese Inventory of Existing Chemical Substances TSCA: American Toxic Substances Control Act EINECS: European Inventory of Existing Commercial Chemical Substances ADR: Accord européen sur le transport des marchandises dangereuses par Route(European Agreement concerning the International Carriage of Dangerous Goods by Road) RID: Règlement international concernant le transport des marchandises dangereuses par chemin defer (Regulations Concerning the International Transport of Dangerous Goods by Rail) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association ICAO: International Civil Aviation Organization · Sources. GESTIS-database: Information system on hazardous substances of the German Social Accident Insurance. HSDB: Hazardous Substances Data Bank.

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ESIS: European chemical Substances Information System.

Neon Orient (Shanghai) Co., Ltd	۱.
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 1 SECTION 1: Identification of the substance/mixture and of the company/undertaking

 • 1.1 Product identifier

· Product name: Daylight Fluorescent ink Violet

· Product type/code: FD-607

 \cdot Registration number: No registration number is given yet for this product.

• 1.2 Relevant identified uses of the substance or mixture and uses advised against Identified uses: Used towriting mark inks.

Use advised against: No information available.

 \cdot 1.3 Details of the supplier of the safety data sheet

· Manufacturer/Supplier:

Neon Orient (Shanghai) Co., Ltd.

Address: Room 516 – 518, No. 583, Lingling Road. (Offshore Oil Mansion) Shanghai, P.R. China Postcode: 200030

Tel: +(86) 21-64640878

2 SECTION 2: Hazards identification

- \cdot 2.1 Classification of the substance or mixture
- Classification according to Regulation (EC) No 1272/2008 [CLP] The product is not classified according to the CLP regulation.
- · Classification according to Directive 67/548/EEC [DSD] or Directive 1999/45/EC [DPD]

The product is not classified as dangerous.

• Classification system: The classification is according to the latest editions of the EU-lists, and extended by company and literature

· 2.2 Label elements

- · Labelling according to Regulation (EC) No 1272/2008 [CLP] Void
- · Hazard pictogram(s): Void
- · Signal word: Void
- · Hazard statement(s): Void
- · Precautionary statements: Void
- \cdot 2.3 Other hazards No information available.
- \cdot Results of PBT and vPvB assessment: Not applicable.

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· PBT: Not applicable.

· vPvB: Not applicable.

3 SECTION 3: Composition/information on ingredients

· 3.1 Chemical characterization: Mixtures

· Description:

Product: consisting of the following components.

Ingredient	CAS No.	EC No.	Concentration
water	7732-18-5	231-791-2	70.0-90.0%
propane-1,2-dio	57-55-6	200-338-0	10.0-25.0%
glycerol	56-81-5	200-289-5	10.0-20.0%
C.I. Acid Blue 9	2650-18-2	220-168-0	1.0-4.0%
C.I. Acid Red 52	3520-42-1	222-529-8	1.0-4.0%
2,2',2"-nitrilotriethanol	102-71-6	203-049-8	< 1.0%
Surfactant	39464-66-9		0.1-0.5%

· Dangerous components: Void

4 SECTION 4: First aid measures

· 4.1 Description of first aid measures

 \cdot General information: In all cases of doubt, or when symptoms persist, seek medical

attention. \cdot Following inhalation:

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if breathing difficulties continue.

· Following skin contact: Immediately wash with water and soap and rinse

thoroughly. · Following eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor. · Following ingestion:

Never give anything through mouth to an unconscious person. Get medical attention immediately. · Information for doctor: Symptomatic treatment is advised.

 \cdot 4.2 Most important symptoms and effects, both acute and delayed No information available.

· 4.3 Indication of any immediate medical attention and special treatment needed No information available.

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according to Commission Regulation (EU) No 453/2010

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5 SECTION 5: Firefighting mea	sures	
• 5.1 Extinguishing media		
· Suitable extinguishing agents: Co	O2, dry chemical powder, water spr	ray.
\cdot 5.2 Special hazards arising from	the substance or mixture	
Formation of toxic gases is possi	ble during heating or in case of fire	2.
In case of fire, the following can	be released:	
Carbon monoxide (CO),	Carbon	
dioxide Other irritating and toxic	gases.	
• 5.3 Advice for firefighters		
Fire-fighters should wear approp	briate breathing apparatus and prote	ective equipment. Prevent fire-fighting
w from entering surface water or	groundwater.	
6 SECTION 6: Accidental releas	e measures	
· 6.1 Personal precautions, protect	ive equipment and emergency proce	edures
Refer to Section 8 for personal r	protective equipment. Ensure adequ	uate ventilation. Remove all sources of

ig Evacuate personnel to safe areas.

· 6.2 Environmental precautions

Do not allow material to be released into the soil, sewerage systems and surface water. Inform respective authorities in case of seepage into water course or sewage system.

6.3 Methods and material for containment and cleaning up Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose of the material collected according to regulations.

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 SECTION 7: Handling and storage

· 7.1 Handling

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According to Commission Regulation (EU) No 453/2010

Printing date 01.15.2018Version number 1Revision date 01.15.2018Handle in accordance with good industrial hygiene and safety practice. Use personal protective equipment
as required.Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. Use this material with
adequate ventilation.• Precautions for safe handling: No special precautions are necessary if used correctly.• Information about fire - and explosion protection: Keep ignition sources away - Do not smoke.

 \cdot 7.2 Conditions for safe storage, including any incompatibilities

Store in cool, dry and well-ventilated place. Keep away from heat and ignition sources. Store away from incompatible materials.

 \cdot 7.3 Specific end use(s) Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

8 SECTION 8: Exposure controls/personal protection

· Information about design of technical facilities:

Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

· 8.1 Control parameters

 \cdot Ingredients with limit values that require monitoring at the workplace:

57-55-6 propane-1,2-die	
WEEL (USA)	10 mg/m ³
56-81-5 glycerol	
PEL (USA)	15* 5** mg/m ³
	*total dust **respirable fraction
TLV (USA)	10* ppm
	*Mist
102-71-6 2,2',2"-nitrilot	ethanol
TLV (USA)	5 mg/m^3

· DNELs No information available.

· PNECs No information available.

- \cdot 8.2 Exposure controls
- · Appropriate engineering controls:

Technical measures and appropriate working operations should be given priority over the use of personal protective equipment. Provide local exhaust or process enclosure ventilation system.

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The work area set safety shower and eyewash equipment.

· Respiratory protection: Use suitable respiratory protective device in case of insufficient ventilation.

· Skin protection:



Protective gloves

· Material of gloves:

The selection of the suitable gloves does not only depend on the material, but also on further marks of quali and varies from manufacturer to manufacturer.

· Penetration time of glove material:

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye and face protection:



Tightly sealed goggles

· Body protection: Protective work clothing

9 SECTION 9: Physical and ch	iemical properties			
· 9.1 Information on basic physical and chemical properties				
· Appearance:				
Form:	Liquid			
Colour:	Violet			
· Odour:	Not determined.			
· pH-value:	Not determined.			
· Melting point/Melting range:	Not determined.			
· Boiling point/Boiling range:	Not determined.			
· Flash point:	Not determined.			
· Flammability (solid, gaseous):	Not applicable.			
· Auto-Ignition temperature:	Not determined.			
· Decomposition temperature:	Not determined.			
· Self-igniting:	Product is not selfigniting.			
· Danger of explosion:	Product does not present an explosion hazard.			
· Vapour pressure:	Not determined.			
· Density:	Not determined.			

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Solubility in/Miscibility with:

Water: The product is aqueous solution.

· Partition coefficient (n-octanol/water): Not determined.

9.2 Additional information No further relevant information available.

10 SECTION 10: Stability and reactivity

• 10.1 Reactivity Stable under recommended storage and handling conditions (see section 7, handling and storage).

 \cdot 10.2 Chemical stability Stable under normal conditions of use, storage and transport.

 \cdot 10.3 Possibility of hazardous reactions No dangerous reactions known.

 \cdot 10.4 Conditions to avoid Strong heating, fire. Incompatible materials.

 \cdot 10.5 Incompatible materials Strong acids, strong bases or strong oxidizing agents.

10.6 Hazardous decomposition products
 Carbon monoxide and carbon dioxide
 Other irritating and toxic gases.

11 SECTION 11: Toxicological information

· Acute toxicity: No data available.

· LD/LC50 values relevant for classification:

57-55-6 propane-1,2-c	diol		
Oral	LD50	20000 mg/kg (rat)	
Dermal	LD50	20800 mg/kg (rabbit)	
102-71-6 2,2',2"-nitril	otriethanol		
Oral	LD50	4920 mg/kg (rat)	
Dermal	LD50	> 2000 mg/kg (rabbit)	
56-81-5 glycerol			
Oral	LD50	12600 mg/kg (rat)	
G1 · · · · · ·			

· Skin corrosion/irritation: No irritant effect.

· Serious eye damage/irritation: No irritating effect.

· Respiratory or skin sensitization: No sensitizing effects known.

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 \cdot Specific target organ system toxicity: No information available.

· CMR effects (carcinogenity, mutagenicity and toxicity for reproduction): No information available.

12 SECTION 12: Ecological information

· 12.1 Toxicity

· Acquatic toxicity:

57-55-6 propane-1,2-diol

EC50 - Crustacea 19000 mg/L/96 h mg/L/48h (Pseudokirchneriella Subcatitata) 34400 mg/L/48 h mg/L/48h (Daphnia magna) 51600 mg/L/96 h mg/L/48h (Onchorhynchus mykiss)

· 12.2 Persistence and degradability No further relevant information available.

· 12.3 Bioaccumulative potential No further relevant information available.

· 12.4 Mobility in soil No further relevant information available.

- · 12.5 Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.

· 12.6 Other adverse effects No information available.

13 SECTION 13: Disposal considerations

- · 13.1 Waste treatment methods
- \cdot 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 SECTION 14: Transport information

· 14.1 Land transport

· ADR/RID class: Not regulated.

· UN-Number:

· 14.2 Maritime transport

IMDG Class: Not regulated.

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UN Number:		Not applic	able.				
• Marine pollutant:		No					
· 14.3 Air transport							
· ICAO/IATA Class	S:	Not regula	ted.				
· UN/ID Number:		Not applic	able.				
14.4 Environment	al hazards: No	t applicable	e.				
14.5 Special preca 14.6 Transport/Ad				s according	to the above	e specification	15.
					1.1 000	G 1 1 1	1. 1.1
14.7 Transport in 1			II of MAR	POL73/78 a	ind the IBC	Code Not app	plicable.
15 SECTION 15: I	Regulatory in	formation					plicable.
15 SECTION 15: I 15.1 Safety, health	Regulatory in and environn	formation					
15 SECTION 15: 1 15.1 Safety, health mixture EU Regul	Regulatory in and environn ation:	formation nental regu					
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15 SECTION 15: I 15.1 Safety, health mixture EU Regul Authorisations: No Restrictions on use Regulatory inform CAS No.	Regulatory in and environm ation: o information a e: No informa ation: 7732-18-5	formation nental regu available. tion availal	lations/legi ble. 56-81-5	slation spec 2650-18-2	ific for the 3520-42-1	substance or 39464-66-9	- 102-71-6
15 SECTION 15: I 15.1 Safety, health mixture EU Regul Authorisations: No Restrictions on use Regulatory inform CAS No.	Regulatory in and environm ation: o information a e: No informa ation:	formation nental regu available. tion availal	lations/legi ble. 56-81-5	slation spec 2650-18-2	ific for the 3520-42-1	substance or 39464-66-9	- 102-71-6
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15 SECTION 15: I 15.1 Safety, health mixture EU Regul Authorisations: No Restrictions on use Regulatory inform CAS No. US-TSCA Canada-DSL	Regulatory in and environm ation: o information a e: No informa ation: 7732-18-5 Listed Listed	formation nental regu available. tion availab 57-55-6 Listed Listed	lations/legi ble. 56-81-5 Listed Listed	islation spec 2650-18-2 Listed Listed	ific for the 3520-42-1 Listed Listed	substance or 39464-66-9 Listed Listed	- 102-71-6 - Listed Listed

16 SECTION 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.

 \cdot Relevant phrases: Not applicable.

Page 9/9 Safety Data Sheet (SDS) According to Commission Regulation (EU) No 453/2010 Printing date 01.15.2018 Version number 1 Revision date 01.15.2018 • Training hints: Provide adequate information, instruction and training for operators. · Abbreviations and acronyms: AICS: Australian Inventory of Chemical Substances DSL/NDSL: Canadian Domestic Substances List/Non-Domestic Substances List ENCS: Japanese Existing and New Chemical Substances List ECL: Korean Existing Chemicals List **IECSC:** Chinese Inventory of Existing Chemical Substances TSCA: American Toxic Substances Control Act EINECS: European Inventory of Existing Commercial Chemical Substances ADR: Accord européen sur le transport des marchandises dangereuses par Route(European Agreement concerning the International Carriage of Dangerous Goods by Road) RID: Règlement international concernant le transport des marchandises dangereuses par chemin defer (Regulations Concerning the International Transport of Dangerous Goods by Rail) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association ICAO: International Civil Aviation Organization · Sources: GESTIS-database: Information system on hazardous substances of the German Social Accident Insurance. HSDB: Hazardous Substances Data Bank.

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ESIS: European chemical Substances Information System.