

according to Regulation (EC) No 1907/2006, Article 31

Printing date 21.01.2025 Version number 1.0 Revision: 21.01.2025

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

1.1 Product identifier

Trade name: Magenta, UV-LED IR2 Ink

Article number: I-7115

1.2 Relevant identified uses of the substance or mixture and uses advised against

Product category PC18 Ink and toners

Application of the substance / the mixture Printing inks

Details of the supplier of the safety data sheet

Direct Color Systems 99 Hammer Mill Rd. Rocky Hill, CT 06067-USA **Manufacturer/Supplier:**

Direct Color Systems 99 Hammer Mill Rd. Rocky Hill, CT 06067-USA

Emergency telephone number US: 24/7 CHEMTREC 1-800-424-9300

Emergency telephone number International: 24/7 CHEMTREC +1 703-527-3887

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Acute Tox. 4 H302 Harmful if swallowed.

Skin Sens. 1 H317 May cause an allergic skin reaction.

Repr. 1B H360FD May damage fertility. May damage the unborn child. Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

Hazard pictograms





GHS07

GHS08

Signal word Danger

Hazard-determining components of labelling:

2-Propenoic acid, 2-[2-(ethenyloxy)ethoxy]ethyl ester 2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one Neopentylglycol(PO)2 Diacrylate propylidynetrimethanol, ethoxylated, esters with acrylic acid phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide

(Contd. on page 2)

according to Regulation (EC) No 1907/2006, Article 31

Printing date 21.01.2025 Version number 1.0 Revision: 21.01.2025

Trade name: Magenta, UV-LED IR2 Ink

(Contd. of page 1)

4,4'-isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, esters with acrylic acid

Hazard statements

H302 Harmful if swallowed.

H317 May cause an allergic skin reaction.

H360FD May damage fertility. May damage the unborn child.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P103 Read carefully and follow all instructions.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P264 Wash thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Additional information:

2.2 percent of the mixture consists of component(s) of unknown toxicity

2.3 Other hazards No additional information available.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Description: Mixture of substances listed below with nonhazardous additions.

Dangerous components:		
CAS: 86273-46-3	2-Propenoic acid, 2-[2-(ethenyloxy)ethoxy]ethyl ester	≥ 50 - ≤ 100%
	Acute Tox. 4, H302; Skin Sens. 1, H317; Aquatic Chronic 3, H412	
CAS: 84170-74-1	Neopentylglycol(PO)2 Diacrylate	≥ 1 - < 2.5%
	Aquatic Chronic 2, H411; Skin Sens. 1, H317	
	Ethanol, 2-amino-, polymer with α -hydro- ω -[(1-oxo-2-propen-1-yl)oxy] poly(oxy-1,2-ethanediyl) ether with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol (3:1)	
	Skin Irrit. 2, H315; Eye Irrit. 2, H319	
CAS: 28961-43-5	propylidynetrimethanol, ethoxylated, esters with acrylic acid Eye Irrit. 2, H319; Skin Sens. 1, H317	≥ 1 - ≤ 2.5%
CAS: 162881-26-7	phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide	≥ 1 - ≤ 2.5%
ELINCS: 423-340-5 Index number: 015-189-00-5	Skin Sens. 1A, H317; Aquatic Chronic 4, H413	
CAS: 71868-10-5	2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	≥ 0.3 - < 2.5%
ELINCS: 400-600-6 Index number: 606-041-00-6	Repr. 1B, H360FD; Aquatic Chronic 2, H411; Acute Tox. 4, H302	
CAS: 119313-12-1	2-benzyl-2-dimethylamino-4-morpholinobutyrophenone	≥ 0.25 - < 0.3%
ELINCS: 404-360-3 Index number: 606-047-00-9	Repr. 1B, H360D; Aquatic Acute 1, H400; Aquatic Chronic 1, H410	
CAS: 75980-60-8	diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	≥ 0.1 - < 0.3%
EINECS: 278-355-8 Index number: 015-203-00-X	Repr. 1B, H360Fd; Skin Sens. 1B, H317	
CAS: 55818-57-0	4,4'-isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, esters with acrylic acid Skin Sens. 1, H317	≥ 0.1 - < 1%
	DKIII DCIII. 1, 11317	(Contd. on page 3)

U

according to Regulation (EC) No 1907/2006, Article 31

Printing date 21.01.2025 Version number 1.0 Revision: 21.01.2025

Trade name: Magenta, UV-LED IR2 Ink

(Contd. of page 2)

SVHC

71868-10-5 2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one

119313-12-1 2-benzyl-2-dimethylamino-4-morpholinobutyrophenone

75980-60-8 diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide

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

SECTION 4: First aid measures

4.1 Description of first aid measures

After inhalation:

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

After skin contact: Immediately wash with water and soap and rinse thoroughly.

After eve contact: Rinse opened eve for several minutes under running water.

After swallowing: If symptoms persist consult 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.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.

- **5.2 Special hazards arising from the substance or mixture** No further relevant information available.
- 5.3 Advice for firefighters

Protective equipment: No special measures required.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures Not required.

6.2 Environmental precautions:

Do not allow product to reach sewage system or any water course.

Inform respective authorities in case of seepage into water course or sewage system.

Dilute with plenty of water.

Do not allow to enter sewers/ surface or ground water.

6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

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.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

Information about fire - and explosion protection: No special measures required.

(Contd. on page 4)

according to Regulation (EC) No 1907/2006, Article 31

Printing date 21.01.2025 Version number 1.0 Revision: 21.01.2025

Trade name: Magenta, UV-LED IR2 Ink

(Contd. of page 3)

7.2 Conditions for safe storage, including any incompatibilities

Storage:

Requirements to be met by storerooms and receptacles: No special requirements.

Information about storage in one common storage facility: Not required.

Further information about storage conditions: None.

7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

Additional information: The lists valid during the making were used as basis.

8.2 Exposure controls

Appropriate engineering controls No further data; see section 7.

Individual protection measures, such as personal protective equipment

General protective and hygienic measures:

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Respiratory protection:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use selfcontained respiratory protective device.

Hand protection



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to 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 gloves and has to be observed. **Eye/face protection** Goggles recommended during refilling

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information

Physical state Liquid
Colour: Magenta
Odour: Characteristic
Odour threshold: Not determined.
Melting point/freezing point: Undetermined.
Boiling point or initial boiling point and boiling range Undetermined.

(Contd. on page 5)

according to Regulation (EC) No 1907/2006, Article 31

Printing date 21.01.2025 Version number 1.0 Revision: 21.01.2025

Trade name: Magenta, UV-LED IR2 Ink

(Contd. of page 4)

Flammability Not applicable.

Lower and upper explosion limit

Lower: Not determined.
Upper: Not determined.
Flash point: Not applicable.
Decomposition temperature: Not determined.
pH Not determined.

Viscosity:

Kinematic viscosity Dynamic:Not determined.
Not determined.

Solubility

water: Fully miscible.

Partition coefficient n-octanol/water (log value) Not determined.

Vapour pressure: Not determined.

Density and/or relative density

Density:Not determined.Relative densityNot determined.Vapour densityNot determined.

9.2 Other information

Appearance:

Form: Liquid

Important information on protection of health and

environment, and on safety.

Ignition temperature: Product is not selfigniting.

Explosive properties: Product does not present an explosion hazard.

Change in condition

Evaporation rate Not determined.

Information with regard to physical hazard classes

Explosives Void Flammable gases Void Aerosols Void Oxidising gases Void Gases under pressure Void Flammable liquids Void Flammable solids Void Self-reactive substances and mixtures Void **Pyrophoric liquids** Void Pyrophoric solids Void Self-heating substances and mixtures Void Substances and mixtures, which emit flammable gases in contact with water Void **Oxidising liquids** Void **Oxidising solids** Void Organic peroxides Void Corrosive to metals Void

SECTION 10: Stability and reactivity

10.1 Reactivity No further relevant information available.

10.2 Chemical stability

Desensitised explosives

Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

Void

10.3 Possibility of hazardous reactions No dangerous reactions known.

(Contd. on page 6)

according to Regulation (EC) No 1907/2006, Article 31

Printing date 21.01.2025 Version number 1.0 Revision: 21.01.2025

Trade name: Magenta, UV-LED IR2 Ink

(Contd. of page 5)

- 10.4 Conditions to avoid No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity Harmful if swallowed.

LD/LC50 values relevant for classification:

ATE (Acute Toxicity Estimates)

Oral LD50 579 - 587 mg/kg

86273-46-3 2-Propenoic acid, 2-[2-(ethenyloxy)ethoxy]ethyl ester

Oral LD50 500 mg/kg (ATE)

71868-10-5 2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one

Oral LD50 500 mg/kg (ATE)

Primary irritant effect:

Skin corrosion/irritation Based on available data, the classification criteria are not met.

Serious eve damage/irritation Based on available data, the classification criteria are not met.

Respiratory or skin sensitisation May cause an allergic skin reaction.

Germ cell mutagenicity Based on available data, the classification criteria are not met.

Carcinogenicity Based on available data, the classification criteria are not met.

Reproductive toxicity May damage fertility. May damage the unborn child.

STOT-single exposure Based on available data, the classification criteria are not met.

STOT-repeated exposure Based on available data, the classification criteria are not met.

Aspiration hazard Based on available data, the classification criteria are not met.

11.2 Information on other hazards

Endocrine disrupting properties

26523-78-4 tris(nonylphenyl) phosphite: List I

541-02-6 Decamethylcyclopentasiloxane: List II

556-67-2 octamethylcyclotetrasiloxane: List II; III

540-97-6 dodecamethylcyclohexasiloxane: List II

80-05-7 bisphenol A: List I

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity: No further relevant information available.

- 12.2 Persistence and degradability No further relevant information available.
- 12.3 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 Endocrine disrupting properties For information on endocrine disrupting properties see section 11.

12.7 Other adverse effects

Remark: Harmful to fish

Additional ecological information:

General notes:

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

(Contd. on page 7)

according to Regulation (EC) No 1907/2006, Article 31

Printing date 21.01.2025 Version number 1.0 Revision: 21.01.2025

Trade name: Magenta, UV-LED IR2 Ink

(Contd. of page 6)

Danger to drinking water if even small quantities leak into the ground.

Harmful to aquatic organisms

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.

Recommended cleansing agents: Water, if necessary together with cleansing agents.

SECTION 14: Transport information

14.1 UN number or ID number

ADR, IMDG, IATA not regulated

14.2 UN proper shipping name

ADR, IMDG, IATA not regulated

14.3 Transport hazard class(es)

ADR, ADN, IMDG, IATA

Class not regulated

14.4 Packing group

ADR, IMDG, IATA not regulated 14.5 Environmental hazards: Not applicable. 14.6 Special precautions for user Not applicable.

14.7 Maritime transport in bulk according to IMO

instruments Not applicable. UN "Model Regulation": not regulated

SECTION 15: Regulatory information

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

Directive 2012/18/EU

Named dangerous substances - ANNEX I None of the ingredients is listed.

REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3, 30

DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II

None of the ingredients is listed.

REGULATION (EU) 2019/1148

Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

Regulation (EC) No 273/2004 on drug precursors

108-88-3 Toluene: 3

Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

108-88-3 Toluene: 3

(Contd. on page 8)

according to Regulation (EC) No 1907/2006, Article 31

Printing date 21.01.2025 Version number 1.0 Revision: 21.01.2025

Trade name: Magenta, UV-LED IR2 Ink

(Contd. of page 7)

National regulations:

Other regulations, limitations and prohibitive regulations Substances of very high concern (SVHC) according to REACH, Article 57

71868-10-5 2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one

119313-12-1 2-benzyl-2-dimethylamino-4-morpholinobutyrophenone

75980-60-8 diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide

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

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.

This Safety Data Sheet is in compliance with Regulation (EC) No 1907/2006, Article 31 as amended by Regulation (EU) 2020/878.

Relevant phrases

- H302 Harmful if swallowed.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H360D May damage the unborn child.
- H360FD May damage fertility. May damage the unborn child.
- H360Fd May damage fertility. Suspected of damaging the unborn child.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.
- H411 Toxic to aquatic life with long lasting effects.
- H412 Harmful to aquatic life with long lasting effects.
- H413 May cause long lasting harmful effects to aquatic life.

Date of previous version: 08.03.2024

Abbreviations and acronyms:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative

ATE: Acute toxicity estimate values

Acute Tox. 4: Acute toxicity – Category 4

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

Skin Sens. 1: Skin sensitisation – Category 1

Skin Sens. 1A: Skin sensitisation – Category 1A

Skin Sens. 1B: Skin sensitisation - Category 1B

Repr. 1B: Reproductive toxicity - Category 1B

Repr. 1B: Reproductive toxicity - Category 1B

Repr. 1B: Reproductive toxicity – Category 1B
Repr. 1B: Reproductive toxicity – Category 1B

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard - Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard - Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard - Category 2

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard - Category 3

Aquatic Chronic 4: Hazardous to the aquatic environment - long-term aquatic hazard - Category 4

* Data compared to the previous version altered.