

according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012

Date of issue: 08/07/2025 Version: 3.0 Reviewed on 08/07/2025

## 1 Identification

#### **Product identifier**

Product name: Magenta, UV-LED IR2 Ink

Other means of identification

**Article number:** I-7115

**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

# 2 Hazard(s) identification

#### Classification of the substance or mixture

Acute toxicity - oral 4 H302 Harmful if swallowed.

Sensitization - skin 1 H317 May cause an allergic skin reaction.

Reproductive toxicity 1B H360 May damage fertility or the unborn child.

#### Label elements

GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS). Hazard pictograms





GHS07

GHS08

#### Signal word Danger

#### Hazard-determining components of labeling:

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

2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one

Neopentylglycol(PO)2 Diacrylate

2-benzyl-2-dimethylamino-4-morpholinobutyrophenone

propylidynetrimethanol, ethoxylated, esters with acrylic acid

phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide

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

#### **Hazard statements**

Harmful if swallowed.

May cause an allergic skin reaction.

May damage fertility or the unborn child.

according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012

Date of issue: 08/07/2025 Version: 3.0 Reviewed on 08/07/2025

# Product name: Magenta, UV-LED IR2 Ink

#### **Precautionary statements**

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Avoid breathing dust/fume/gas/mist/vapors/spray

Wash thoroughly after handling.

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

Contaminated work clothing must not be allowed out of the workplace.

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

If swallowed: Call a poison center/doctor if you feel unwell.

Rinse mouth.

If on skin: Wash with plenty of water.

IF exposed or concerned: Get medical advice/attention.

Specific treatment (see on this label).

Take off contaminated clothing and wash it before reuse.

If skin irritation or rash occurs: Get medical advice/attention.

Store locked up.

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

## Additional information:

2.2 % of the mixture consists of component(s) of unknown toxicity.

#### Classification according to (d)(1)(ii) of § 1910.1200

The SDS issuer does not object to the classifications provided by importers or manufacturers of precursor products.

#### Hazards not otherwise classified

There are no adverse physical or health effects known that are not covered by the hazard classes of the Hazard Communications Standard.

# 3 Composition/information on ingredients

#### **Chemical characterization: Mixtures**

Description: Mixture of the substances listed below with nonhazardous additions.

## Dangerous components:

Dangerous components:	
86273-46-3 2-Propenoic acid, 2-[2-(ethenyloxy)ethoxy]ethyl ester	≥ 50 - ≤ 100%
Acute toxicity - oral 4, H302; Sensitization - skin 1, H317	
84170-74-1 Neopentylglycol(PO)2 Diacrylate	≥ 0 - ≤ 2.5%
Sensitization - skin 1, H317	
Ethanol, 2-amino-, polymer with $\alpha$ -hydro- $\omega$ -[(1-oxo-2-propen-1-yl)oxy]poly(oxy-1,2-ethanediyl) ether with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol (3:1)	≤ 2.5%
Skin irritation 2, H315; Eye irritation 2A, H319	
28961-43-5 propylidynetrimethanol, ethoxylated, esters with acrylic acid	≤ 2.5%
Eye irritation 2A, H319; Sensitization - skin 1, H317	
162881-26-7 phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide	≤ 2.5%
Sensitization - skin 1A, H317	
71868-10-5 2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	≥ 0 - ≤ 2.5%
Reproductive toxicity 1B, H360; Acute toxicity - oral 4, H302	
119313-12-1 2-benzyl-2-dimethylamino-4-morpholinobutyrophenone	≥ 0 - ≤ 2.5%
Reproductive toxicity 1B, H360	
75980-60-8 diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	≥ 0 - ≤ 2.5%
Reproductive toxicity 1B, H360; Sensitization - skin 1B, H317	
55818-57-0 4,4'-isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, esters with acrylic acid	≥ 0 - ≤ 2.5%
Sensitization - skin 1, H317	TIC.

according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012

Date of issue: 08/07/2025 Version: 3.0 Reviewed on 08/07/2025

Product name: Magenta, UV-LED IR2 Ink

## 4 First-aid measures

#### 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 eye contact: Rinse opened eye for several minutes under running water.

After swallowing: If symptoms persist consult doctor.

Most important symptoms and effects, both acute and delayed No further relevant information available.

Indication of any immediate medical attention and special treatment needed

No further relevant information available.

# **5** Fire-fighting measures

#### Extinguishing media

Suitable extinguishing agents: Use fire fighting measures that suit the environment.

Special hazards arising from the substance or mixture No further relevant information available.

Advice for firefighters

Protective equipment: No special measures required.

## **6 Accidental release measures**

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

#### **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.

# Methods and material for containment and cleaning up:

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

Ensure adequate ventilation.

#### Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

# 7 Handling and storage

#### Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

Information about protection against explosions and fires: No special measures required.

## 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.

according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012

Date of issue: 08/07/2025 Version: 3.0 Reviewed on 08/07/2025

Product name: Magenta, UV-LED IR2 Ink

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

# 8 Exposure controls/personal protection

## **Control parameters**

# Components 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 that were valid during the creation were used as basis.

#### **Exposure controls**

**Appropriate engineering controls** No further data; see section 7.

#### 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.

#### **Breathing equipment:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

#### **Protection of hands:**



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 protection:** Goggles recommended during refilling.

## 9 Physical and chemical properties

#### Information on basic physical and chemical properties

**General Information** 

Physical state
Color:
Magenta
Odor:
Odor threshold:
Not determined.
Melting point/Melting range:
Undetermined.
Boiling point/Boiling range:
Undetermined.
Flammability:
Not applicable.

**Explosion limits:** 

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

according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012

Date of issue: 08/07/2025 Version: 3.0 Reviewed on 08/07/2025

Product name: Magenta, UV-LED IR2 Ink

**pH-value:** Not determined.

Viscosity:

Kinematic: Not determined.

Dynamic: Not determined.

Solubility in / Miscibility with

Water: Fully miscible.

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

Vapor pressure: Not determined.

Vapor pressure:

Density:Not determined.Relative densityNot determined.Vapor densityNot determined.Particle characteristicsNot applicable.

Other information Appearance:

Form: Liquid

Important information on protection of health and

environment, and on safety.

**Ignition temperature:** Product is not selfigniting.

**Danger of explosion:** Product does not present an explosion hazard.

Change in condition

**Evaporation rate** Not determined.

# 10 Stability and reactivity

Reactivity No further relevant information available.

Chemical stability

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

Possibility of hazardous reactions No dangerous reactions known.

Conditions to avoid No further relevant information available.

**Incompatible materials:** No further relevant information available.

Hazardous decomposition products: No dangerous decomposition products known.

# \* 11 Toxicological information

Information on toxicological effects

Acute toxicity:

LD/LC50 values that are relevant for classification:

**ATE (Acute Toxicity Estimate)** 

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:

on the skin: No irritant effect. on the eye: No irritating effect.

Sensitization: Sensitization possible through skin contact.

Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations:

according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012

Date of issue: 08/07/2025 Version: 3.0 Reviewed on 08/07/2025

# Product name: Magenta, UV-LED IR2 Ink

Irritant

**Interactive effects** No interactive effects between components are known.

Carcinogenic categories

IARC (International Agency for Research on Cancer)

119-61-9 benzophenone: 2B

108-88-3 Toluene: 3

NTP (National Toxicology Program)

None of the ingredients is listed.

OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

Alternative sources for toxicological information

No non-standard sources for toxicological information where used.

# 12 Ecological information

**Toxicity** 

Aquatic toxicity: No further relevant information available.

Persistence and degradability No further relevant information available.

**Bioaccumulative potential** No further relevant information available.

Mobility in soil No further relevant information available.

Results of PBT and vPvB assessment

PBT: Not applicable. vPvB: Not applicable. Other adverse effects Remark: Harmful to fish

Additional ecological information:

General notes:

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

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

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

Harmful to aquatic organisms

# 13 Disposal considerations

#### Waste treatment methods

**Recommendation:** 

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

**Uncleaned packagings:** 

**Recommendation:** Disposal must be made according to official regulations. **Recommended cleansing agent:** Water, if necessary with cleansing agents.

# 14 Transport information

UN-Number DOT, IMDG, IATA UN proper shipping name

not regulated

DOT, IMDG, IATA

not regulated

according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012

Date of issue: 08/07/2025 Version: 3.0 Reviewed on 08/07/2025

# Product name: Magenta, UV-LED IR2 Ink

Transport hazard class(es)

DOT, ADN, IMDG, IATA

Class not regulated

Packing group

**DOT, IMDG, IATA** not regulated **Environmental hazards:** Not applicable.

Transport in bulk according to Annex II of

MARPOL73/78 and the IBC Code
Special precautions for user
UN "Model Regulation":

Not applicable.

Not applicable.

not regulated

# \*15 Regulatory information

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

#### Section 355 (extremely hazardous substances):

None of the ingredients is listed.

## Section 313 (Specific toxic chemical listings):

None of the ingredients is listed.

#### TSCA (Toxic Substances Control Act):

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory.

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

84170-74-1 Neopentylglycol(PO)2 Diacrylate: ACTIVE

28961-43-5 propylidynetrimethanol, ethoxylated, esters with acrylic acid: ACTIVE

162881-26-7 phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide: ACTIVE

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

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

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

55818-57-0 4,4'-isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, esters with acrylic acid: ACTIVE

## **Hazardous Air Pollutants**

67-56-1 methanol

108-88-3 Toluene

#### **Proposition 65**

## Chemicals known to cause cancer:

119-61-9 benzophenone

#### Chemicals known to cause reproductive toxicity for females:

80-05-7 bisphenol A

#### **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

#### Chemicals known to cause developmental toxicity:

67-56-1 methanol

108-88-3 Toluene

80-05-7 bisphenol A

#### Carcinogenic categories

# EPA (Environmental Protection Agency)

108-88-3 Toluene: II

according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012

Date of issue: 08/07/2025 Version: 3.0 Reviewed on 08/07/2025

# Product name: Magenta, UV-LED IR2 Ink

#### TLV (Threshold Limit Value)

108-88-3 Toluene: A4

#### NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).

## Hazard pictograms





GHS07

GHS08

#### Signal word Danger

## Hazard-determining components of labeling:

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

2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one

Neopentylglycol(PO)2 Diacrylate

2-benzyl-2-dimethylamino-4-morpholinobutyrophenone

propylidynetrimethanol, ethoxylated, esters with acrylic acid

phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide

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

#### **Hazard statements**

Harmful if swallowed.

May cause an allergic skin reaction.

May damage fertility or the unborn child.

## **Precautionary statements**

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Avoid breathing dust/fume/gas/mist/vapors/spray

Wash thoroughly after handling.

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

Contaminated work clothing must not be allowed out of the workplace.

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

If swallowed: Call a poison center/doctor if you feel unwell.

Rinse mouth.

If on skin: Wash with plenty of water.

IF exposed or concerned: Get medical advice/attention.

Specific treatment (see on this label).

Take off contaminated clothing and wash it before reuse.

If skin irritation or rash occurs: Get medical advice/attention.

Store locked up.

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

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

# 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

# Relevant phrases

H302 Harmful if swallowed.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012

Date of issue: 08/07/2025 Version: 3.0 Reviewed on 08/07/2025

# Product name: Magenta, UV-LED IR2 Ink

H319 Causes serious eye irritation.

H360 May damage fertility or the unborn child.

Date of previous version 07/07/2022 Version number of previous version: 2.0

**Date of preparation** 08/07/2025 **Abbreviations and acronyms:** 

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation IATA: International Air Transport Association

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 vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

Acute toxicity - oral 4: Acute toxicity - Category 4

Skin irritation 2: Skin corrosion/irritation – Category 2

Eye irritation 2A: Serious eye damage/eye irritation - Category 2A

Sensitization - skin 1: Skin sensitisation - Category 1

Sensitization - skin 1A: Skin sensitisation - Category 1A

Sensitization - skin 1B: Skin sensitisation - Category 1B

Reproductive toxicity 1B: Reproductive toxicity - Category 1B

\* Data compared to the previous version altered.

LIC