



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

Printing date 21.01.2025 Version number 1.0 Revision: 16.01.2025

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

#### 1.1 Product identifier

Trade name: IR2 Monomer Flush

Article number: I-7101

**CAS Number:** 34590-94-8 **EC number:** 252-104-2

#### 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

The substance is not classified, according to the CLP regulation.

#### 2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 Void

Hazard pictograms Void

Signal word Void

Hazard statements Void

**2.3 Other hazards** No additional information available.

# **SECTION 3: Composition/information on ingredients**

## 3.1 Substances

**CAS No. Description** 

34590-94-8 Dipropylene glycol monomethyl ether

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**Identification number(s) EC number:** 252-104-2

**Dangerous components:** 

CAS: 34590-94-8 Dipropylene glycol monomethyl ether

 $\geq 50 - \leq 100\%$ 

EINECS: 252-104-2 substance with a Community workplace exposure limit

## **SECTION 4: First aid measures**

4.1 Description of first aid measures

General information: No special measures required.

**After inhalation:** Supply fresh air; consult doctor in case of complaints. **After skin contact:** Generally the product does not irritate the skin.

After eye contact: Rinse opened eye 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:

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

- 5.2 Special hazards arising from the substance or mixture 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:**

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).

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 No special measures required.

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

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.

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

#### **SECTION 8: Exposure controls/personal protection**

#### 8.1 Control parameters

#### <u>Ingredients</u> with limit values that require monitoring at the workplace:

## 34590-94-8 Dipropylene glycol monomethyl ether

IOELV Long-term value: 308 mg/m<sup>3</sup>, 50 ppm

Skin

**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:

The usual precautionary measures are to be adhered to when handling chemicals.

Respiratory protection: Not required.

#### Hand protection

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.

#### 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: Colourless
Odour: Ether-like

**Odour threshold:** Not determined.

Lower and upper explosion limit

Lower:1.1 Vol %Upper:14 Vol %Flash point:75 °CAuto-ignition temperature:270 °C

**Decomposition temperature:**Not determined.
Not determined.

Viscosity:

**Kinematic viscosity Dynamic at 20 °C:**Not determined.
4.55 mPas

**Solubility** 

water: Fully miscible.

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

Vapour pressure at 20 °C: 0.4 hPa

Density and/or relative density

Density at 20 °C: 0.956 g/cm<sup>3</sup>
Relative density Not determined.
Vapour density Not determined.

9.2 Other information

Appearance:

Form: Liquid

Important information on protection of health and

environment, and on safety.

**Ignition temperature:** Not determined.

**Explosive properties:** Product does not present an explosion hazard.

Solids content: 0.0 %
Molecular weight 148.2 g/mol

Change in condition

**Evaporation rate** Not determined.

Information with regard to physical hazard classes

Void **Explosives** 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 **Desensitised explosives** Void

# **SECTION 10: Stability and reactivity**

- 10.1 Reactivity No further relevant information available.
- 10.2 Chemical stability

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

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

# **SECTION 11: Toxicological information**

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

**Acute toxicity** Based on available data, the classification criteria are not met.

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#### LD/LC50 values relevant for classification:

# 34590-94-8 Dipropylene glycol monomethyl ether

Oral LD50 5,135 mg/kg (rat) Dermal LD50 > 19,000 mg/kg (rab)

Primary irritant effect:

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

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

Respiratory or skin sensitisation Based on available data, the classification criteria are not met.

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

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

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

STOT-single exposure 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** 

Substance is not listed.

#### **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 The product does not contain substances with endocrine disrupting properties.

12.7 Other adverse effects

Additional ecological information:

General notes:

Water hazard class 1 (German Regulation) (Assessment by list): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

## **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

**Recommendation** Smaller quantities can be disposed of with household waste.

**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 14.2 UN proper shipping name

not regulated

ADR, IMDG, IATA

not regulated

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#### 14.3 Transport hazard class(es)

ADR, ADN, IMDG, IATA

Class not regulated

14.4 Packing groupnot regulatedADR, IMDG, IATAnot regulated14.5 Environmental hazards:Not applicable.14.6 Special precautions for userNot 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 Substance is not listed.

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

Substance is not listed.

**REGULATION (EU) 2019/1148** 

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

Substance is not listed.

#### Annex II - REPORTABLE EXPLOSIVES PRECURSORS

Substance is not listed.

#### Regulation (EC) No 273/2004 on drug precursors

Substance is not listed.

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

Substance is not listed.

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.

#### 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

vPvB: very Persistent and very Bioaccumulative