

Revised: 19 April 2023

SAFETY DATA SHEET

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

1.1 Product identifier

Product Name: Ink Clean

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

Use of the substance/mixture: SU 21 Consumer uses: Private households/general public/consumers;
SU 22 Professional uses: Public domain (administration, education,
entertainment, services, craftsmen); Ink Cleaner

Use advised against: No information available

1.3 Details of the supplier of the safety data sheet

Name of Supplier: Eco Solutions Limited

Address of Supplier: Summerleaze House
46 Church Road
Winscombe
BS25 1BH
UK

Telephone: 00 44 (0) 1934 844484

Email: info@ecosolutions.co.uk

1.4 Emergency telephone number

Emergency Telephone: 00 44 (0) 1934 844484 (24hr)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008) [CLP/GHS]: Not Classified

Additional information: For full text of Hazard- and EU Hazard-statements: see section 16

2.2 Label elements

Hazard pictograms: None

Signal Word: None

Hazard statements

None

Precautionary statements

None

Supplemental Hazard information (EU)

EUH210 - Safety data sheet available on request.

2.3 Other hazards

May cause irritation to skin, eyes and the respiratory tract.

Not a PBT according to REACH Annex XIII

Not a vPvB according to REACH Annex XIII

Does not contain any substances with endocrine disrupting properties

SECTION 3: Composition/information on ingredients

3.1 Substances

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SECTION 3: Composition/information on ingredients (....)

Not applicable

3.2 Mixtures

Chemical Name	Conc.	CAS No.	EC No.	Classification (REGULATION (EC) No 1272/2008) [CLP/GHS]	SCL/ M-Factor/ ATE	REACH Registration Number	WEL/ OEL
Triethyl phosphate	< 10%	78-40-0	201-114-5	Acute Tox. 4, H302 Eye Irrit. 2, H319	-	01-2119492852-28-XXXX	No

SECTION 4: First aid measures

4.1 Description of first aid measures

Rescuers should put on approved personal protective equipment (PPE) before administering first aid

Contact with eyes

If substance has got into eyes, immediately wash out with plenty of water for several minutes
Remove contact lenses, if present and easy to do. Continue rinsing.
Irrigate eyes thoroughly whilst lifting eyelids
If eye irritation persists: Get medical advice/attention.

Contact with skin

Remove contaminated clothing
Gently wash with plenty of soap and water.
If skin irritation occurs: Get medical advice/attention.

Ingestion

Rinse mouth with water (do not swallow)
Do NOT induce vomiting.
Never make an unconscious person vomit or drink fluids
Get medical advice/attention if you feel unwell.

Inhalation

If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
If exposed or concerned: Call a doctor.

4.2 Most important symptoms and effects, both acute and delayed

Contact with eyes

May cause redness and irritation

Contact with skin

May cause redness and irritation

Ingestion

The ingestion of significant quantities may cause nausea/vomiting
The ingestion of significant quantities may cause diarrhoea

Inhalation

In cases of severe exposure, irritation of the respiratory tract may develop

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically

SECTION 5: Firefighting measures**5.1 Extinguishing media**

Suitable extinguishing media: Not flammable. In case of fire use extinguishing media appropriate to surrounding conditions

Unsuitable extinguishing media: No information available

5.2 Special hazards arising from the substance or mixture

Gives off irritating or toxic fumes (or gases) in a fire.

5.3 Advice for firefighters

In case of fire: Stop leak if safe to do so.

Keep container(s) exposed to fire cool, by spraying with water

Collect contaminated fire extinguishing water separately. This MUST not be discharged into drains.

Prevent fire extinguishing water from contaminating surface or ground water.

Special protective equipment: Wear self-contained breathing apparatus (SCBA). Wear full protective clothing including chemical protection suit.

SECTION 6: Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures**

Rescuers should take suitable precautions to avoid becoming casualties themselves

Only trained and authorised personnel should carry out emergency response

Personal precautions for non-emergency personnel: Avoid breathing vapours, mist or gas; Avoid contact with skin and eyes; Wear protective clothing as per section 8; Wash thoroughly after dealing with spillage

Personal precautions for emergency responders: Wear chemical protection suit; Wear self-contained breathing apparatus (SCBA)

6.2 Environmental precautions

Avoid release to the environment.

Do not allow to enter public sewers and watercourses

6.3 Methods and material for containment and cleaning up

Stop leak if safe to do so.

Small spills

Wipe up spillage with damp absorbent cloth or towel

Wash spill site with water and detergent

Large spills

Evacuate the area and keep personnel upwind

Contain the spillage using bunding

Absorb spillage in inert material and shovel up

Place in appropriate container

Seal containers and label them

Remove contaminated material to safe location for subsequent disposal

Ventilate the area and wash spill site after material pick-up is complete

6.4 Reference to other sections

See section(s): 7, 8 & 13

SECTION 7: Handling and storage**7.1 Precautions for safe handling**

Ensure adequate ventilation

SECTION 7: Handling and storage (....)

Avoid breathing vapours, mist or gas
Do not get in eyes, on skin, or on clothing.
Contaminated clothing should be laundered before reuse
Do not eat, drink or smoke when using this product.
Eyewash bottles should be available

7.2 Conditions for safe storage, including any incompatibilities

Store in a well-ventilated place. Keep cool.
Avoid freezing
Protect from sunlight.
Keep only in original packaging.
Keep container tightly closed.
Keep out of reach of children
Keep away from food, drink and animal feedingstuffs
Incompatible with strong acids, alkalis (strong bases), and strong oxidizing substances

7.3 Specific end use(s)

Ink Cleaner

SECTION 8: Exposure controls/personal protection**8.1 Control parameters**

If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.
Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace exposure - Measurement of exposure by inhalation to chemical agents - Strategy for testing compliance with occupational exposure limit values). European Standard EN 14042 (Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents). European Standard EN 482 (Workplace exposure. General requirements for the performance of procedures for the measurement of chemical agents). Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

Triethyl phosphate

DNEL (inhalational) 9.9 mg/m³ Industry, Long Term, Systemic Effects
DNEL (dermal) 2 mg/kg bw/day Industry, Long Term, Systemic Effects
DNEL (inhalational) 1.74 mg/m³ Consumer, Long Term, Systemic Effects
DNEL (dermal) 1 mg/kg bw/day Consumer, Long Term, Systemic Effects
DNEL (oral) 1 mg/kg bw/day Consumer, Long Term, Systemic Effects
DNEL (oral) 5 mg/kg bw/day Consumer, Acute/Short Term, Systemic Effects
PNEC aqua (freshwater) 632 µg/L
PNEC aqua (intermittent releases, freshwater) 9 mg/L
PNEC aqua (marine water) 63.2 µg/L
PNEC (STP) 298.5 mg/L
PNEC sediment (freshwater) 5 mg/kg
PNEC sediment (marine water) 500 µg/kg
PNEC terrestrial (soil) 640 µg/kg

8.2 Exposure controls

Selection and use of personal protective equipment should be based on a risk assessment of exposure potential

Engineering controls

Ensure adequate ventilation
Engineering controls should be provided which maintain airborne concentrations as low as practicable

Respiratory protection

No respiratory protection is needed during normal handling

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SECTION 8: Exposure controls/personal protection (....)

Respiratory protection may be required under exceptional circumstances when excessive air contamination exists

Where a reusable half mask respirator is required, use EN 140, with gas/vapour filter EN 14387 type ABEK, or EN 405; EN 1827

Where a full face mask respirator is required, use EN 136, with gas/vapour filter EN 14387 type ABEK

Skin protection

Wear suitable protective clothing

Wear protective gloves. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and standard EN 374.

The selection of a suitable glove depends on work conditions and whether the product is present on its own or in combination with other substances. Breakthrough time is dependent on the characteristics of the brand of glove used and the supplier should be consulted.

PVC or rubber gloves are recommended

Eye/face protection

Wear safety glasses approved to standard EN 166.

Thermal hazards

Not applicable

Hygiene measures

Use good personal hygiene practices

Wash thoroughly after handling.

Contaminated clothing should be laundered before reuse

Eyewash bottles should be available

Environmental exposure controls

Do not allow to enter public sewers and watercourses

Do not allow to penetrate the ground/soil.



SECTION 9: Physical and chemical properties**9.1 Information on basic physical and chemical properties**

Physical state: Liquid (emulsion, gel)

Colour: Blue

Odour: No information available

Melting point/freezing point: < -10 °C

Boiling point or initial boiling point and boiling range: Approx. 100 °C

Flammability: Not flammable

Lower and upper explosion limit: Not applicable

Flash point: Not applicable

Auto-ignition temperature: No information available

Decomposition temperature: Not applicable

pH: 7 (as supplied)

Kinematic viscosity: No information available

Solubility: No information available

Partition coefficient n-octanol/water (log value): No information available

Vapour pressure: No information available

Density and/or relative density: No information available

Relative vapour density: No information available

Particle characteristics: Not applicable

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SECTION 9: Physical and chemical properties (....)

9.2 Other information

No information available

SECTION 10: Stability and reactivity

10.1 Reactivity

No hazardous reactions known if used for its intended purpose

10.2 Chemical stability

Considered stable under normal conditions

10.3 Possibility of hazardous reactions

No hazardous reactions known if used for its intended purpose

10.4 Conditions to avoid

Keep away from heat and sources of ignition

Avoid extremes of temperature

Keep away from direct sunlight

10.5 Incompatible materials

Incompatible with strong acids, alkalis (strong bases), and strong oxidizing substances

10.6 Hazardous decomposition products

Decomposition products may include carbon oxides and phosphorus oxides

SECTION 11: Toxicological information

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

Acute Toxicity

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

Substances

Chemical Name	LD ₅₀ (oral, rat)	LC ₅₀ (inhalation, rat)	LD ₅₀ (dermal, rabbit)
Triethyl phosphate	1 600 mg/kg	(4 h) 8.817 mg/L	No data available

Skin corrosion/irritation

Based on available data, the classification criteria are not met

Substances

Chemical Name	Irritation/corrosion
Triethyl phosphate	No adverse effect observed (not irritating)

Serious eye damage/irritation

Based on available data, the classification criteria are not met

Substances

Chemical Name	Irritation/corrosion
Triethyl phosphate	Adverse effect observed (irritating)

Respiratory or skin sensitisation

Based on available data, the classification criteria are not met

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SECTION 11: Toxicological information (....)

Substances

Chemical Name	Skin sensitisation	Respiratory sensitisation
Triethyl phosphate	No adverse effect observed (not sensitising)	No study available

Germ cell mutagenicity

No evidence of mutagenic effects

Substances

Chemical Name	Toxicity - In Vitro	Toxicity - In Vivo
Triethyl phosphate	No data available	No data available

Carcinogenicity

No evidence of carcinogenic effects

Substances

Chemical Name	NOAEL (oral, rat)	NOAEC (inhalation, rat)	NOAEL (dermal, rat)
Triethyl phosphate	No data available	No data available	No data available

Reproductive toxicity

No evidence of reproductive effects

Substances

Chemical Name	NOAEL (oral, rat)	NOAEC (inhalation, rat)	NOAEL (dermal, rat)
Triethyl phosphate	No data available	No data available	No data available

Specific target organ toxicity (STOT) - single exposure

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

Substances

Chemical Name	Route	Remarks
Triethyl phosphate	Respiratory	No study available

Specific target organ toxicity (STOT) - repeated exposure

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

Substances

Chemical Name	NOAEL (oral, rat)	NOAEC (inhalation, rat)	NOAEL (dermal, rat)
Triethyl phosphate	200 mg/kg bw/day	No data available	No data available

Aspiration hazard

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

Contact with eyes

May cause redness and irritation

Contact with skin

May cause redness and irritation

Ingestion

The ingestion of significant quantities may cause nausea/vomiting

The ingestion of significant quantities may cause diarrhoea

Inhalation

In cases of severe exposure, irritation of the respiratory tract may develop

11.2 Information on other hazards

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SECTION 11: Toxicological information (....)

Does not contain any substances with endocrine disrupting properties

SECTION 12: Ecological information

12.1 Toxicity

Based on available data, the classification criteria are not met

Substances

Chemical Name	LC ₅₀ (fish)	EC ₅₀ (aquatic invertebrates)	EC ₅₀ (aquatic algae)
Triethyl phosphate	(4 days) 100 - 2 400 mg/L	(24 h) 900 - 950 mg/L	(72 h) 901 mg/L

12.2 Persistence and degradability

No information available

Substances

Chemical Name	Biodegradation
Triethyl phosphate	Under test conditions no biodegradation observed (100%)

12.3 Bioaccumulative potential

Bioaccumulation is not expected

Substances

Chemical Name	Bioconcentration Factor (BCF)	Log Kow
Triethyl phosphate	Low potential for bioaccumulation	(Log Pow) 1.11 @ 20 °C

12.4 Mobility in soil

No information available

Substances

Chemical Name	Adsorption/desorption
Triethyl phosphate	Koc 43.9 @ 20°C

12.5 Results of PBT and vPvB assessment

Not a PBT according to REACH Annex XIII

Not a vPvB according to REACH Annex XIII

12.6 Endocrine disrupting properties

Does not contain any substances with endocrine disrupting properties

12.7 Other adverse effects

No information available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Disposal should be in accordance with local, state or national legislation

Do not pierce or burn container, even after use

Do not reuse empty containers without commercial cleaning or reconditioning

13.2 Classification

The waste must be identified according to the List of Wastes (2000/532/EC)

Hazardous Property Code(s): None assigned

SECTION 14: Transport information

Not classified as hazardous for transport

14.1 UN number or ID number

UN No.: Not applicable

14.2 UN proper shipping name

Proper Shipping Name: Not applicable

14.3 Transport hazard class(es)

Hazard Class: Not applicable

14.4 Packing group

Packing Group: Not applicable

14.5 Environmental hazards

Not classified as hazardous for transport

14.6 Special precautions for user

No information available

14.7 Maritime transport in bulk according to IMO instruments

Not applicable

14.8 Road/Rail (ADR/RID)

Proper Shipping Name: Not applicable

ADR UN No.: Not applicable

ADR Hazard Class: Not applicable

ADR Packing Group: Not applicable

Tunnel Code: Not applicable

14.9 Sea (IMDG)

Proper Shipping Name: Not applicable

IMDG UN No.: Not applicable

IMDG Hazard Class: Not applicable

IMDG Packing Group.: Not applicable

14.10 Air (ICAO/IATA)

Proper Shipping Name: Not applicable

ICAO UN No.: Not applicable

ICAO Hazard Class: Not applicable

ICAO Packing Group: Not applicable

SECTION 15: Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

This safety data sheet is provided in compliance with REACH Regulation (EC) No 1907/2006 (as amended by Regulation (EU) 2020/878) and UK REACH

Regulation (EC) No. 1272/2008 on the classification, labelling and packaging of substances and mixtures (CLP Regulation) applies in Europe

The GB Classification, Labelling and Packaging Regulation (GB CLP) applies in Great Britain

15.2 Chemical safety assessment

A REACH chemical safety assessment has been carried out for triethyl phosphate

SECTION 16: Other information

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

Sources of data: Information from published literature and supplier safety data sheets

Revision No. 2.0.0. Revised May 2016.

Changes made: Addition of EUH210 in Sub-section 2.2 and removal of references to DSD/DPD Directives

Revision No. 3.0.0. Revised February 2021.

Changes made: Revised to conform to new version of REACH.

Revision No. 4.0.0. Revised April 2023.

Changes made: New data on triethyl phosphate in sections 11 and 12.

Training advice

Workers must be informed of the presence of hazardous ingredients and trained in the proper use and handling of this product as required under applicable regulations

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Based on available data, the classification criteria are not met

Text not given with phrase codes where they are used elsewhere in this safety data sheet:

H302: Harmful if swallowed

H319: Causes serious eye irritation.

Acronyms

ATE: Acute Toxicity Estimate

CAS: Chemical Abstracts Service

DNEL: Derived No-Effect Level

EC: European Community

EC₅₀: Effective Concentration, 50%

GHS: Globally Harmonised System

LC₅₀: Lethal Concentration, 50%

LD₅₀: Lethal Dose, 50%

NOAEC: No Observed Adverse Effect Concentration

NOAEL: No Observed Adverse Effect Level

OEL: Occupational Exposure Limit

PBT: Persistent, Bioaccumulative and Toxic

PNEC: Predicted No-Effect Concentration

REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals

SCL: Specific Concentration Limit

vPvB: very Persistent and very Bioaccumulative

WEL: Workplace Exposure Limit