



## Safety Data Sheet according to (EC) No 1907/2006 as amended

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V003.1

LOCTITE ECI 8001 E&C known as LOCTITE ECI 8001 E&C

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

#### 1.1. Product identifier

LOCTITE ECI 8001 E&C known as LOCTITE ECI 8001 E&C

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

Intended use:

PTF ink

#### 1.3. Details of the supplier of the safety data sheet

Henkel Ltd

Adhesives

Wood Lane End

HP2 4RQ Hemel Hempstead

Great Britain

Phone: +44 (1442) 278000

ua-productsafety.uk@henkel.com

For Safety Data Sheet updates please visit our website <https://mysds.henkel.com/index.html#/appSelection> or [www.henkel-adhesives.com](http://www.henkel-adhesives.com).

#### 1.4. Emergency telephone number

24 Hours Emergency Tel: +44 (0)1442 278497

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification (CLP):

The substance or mixture is not hazardous according to Regulation (EC) No 1272/2008 (CLP).

#### 2.2. Label elements

##### Label elements (CLP):

The substance or mixture is not hazardous according to Regulation (EC) No 1272/2008 (CLP).

##### Supplemental information

Safety data sheet available on request.

#### 2.3. Other hazards

None if used properly.

Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.

Following substances are present in a concentration  $\geq 0,1\%$  and fulfill the criteria for PBT/vPvB, or were identified as endocrine disruptor (ED):

This mixture does not contain any substances in concentration  $\geq$  the concentration limit that are assessed to be a PBT, vPvB or ED.

### SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

Declaration of the ingredients according to CLP (EC) No 1272/2008:

| Hazardous components<br>CAS-No.<br>EC Number<br>REACH-Reg No.      | Concentration | Classification   | Specific Conc. Limits, M-factors and ATEs | Add. Information |
|--|---------------|--|---|------------------|
| 2-Butoxyethyl acetate<br>112-07-2<br>203-933-3<br>01-2119475112-47 | 25- 50 %      | Acute Tox. 4, Oral, H302<br>Acute Tox. 4, Dermal, H312<br>Acute Tox. 4, Inhalation, H332 |   | EU OEL           |

For full text of the H - statements and other abbreviations see section 16 "Other information".  
Substances without classification may have community workplace exposure limits available.

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

Inhalation:

Should not be a problem as product is of low volatility. However, if feeling unwell remove patient to fresh air.

Skin contact:

Rinse with running water and soap.

Obtain medical attention if irritation persists.

Eye contact:

Rinse immediately with plenty of running water (for 10 minutes), seek medical attention from a specialist.

Ingestion:

Rinse mouth, drink 1-2 glasses of water, do not induce vomiting, consult a doctor.

#### 4.2. Most important symptoms and effects, both acute and delayed

Prolonged or repeated contact may cause eye irritation.

Prolonged or repeated contact may cause skin irritation.

#### 4.3. Indication of any immediate medical attention and special treatment needed

See section: Description of first aid measures

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

Suitable extinguishing media:

water, carbon dioxide, foam, powder

Extinguishing media which must not be used for safety reasons:

High pressure waterjet

**5.2. Special hazards arising from the substance or mixture**

In the event of a fire, carbon monoxide (CO) and carbon dioxide (CO<sub>2</sub>) can be released.  
In case of fire, keep containers cool with water spray.  
carbon oxides.

**5.3. Advice for firefighters**

Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear.

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

Avoid contact with skin and eyes.  
Wear protective equipment.  
Ensure adequate ventilation.

**6.2. Environmental precautions**

Do not empty into drains / surface water / ground water.

**6.3. Methods and material for containment and cleaning up**

For small spills wipe up with paper towel and place in container for disposal.  
For large spills absorb onto inert absorbent material and place in sealed container for disposal.  
Dispose of contaminated material as waste according to Section 13.

**6.4. Reference to other sections**

See advice in section 8

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

Avoid skin and eye contact.  
See advice in section 8

Hygiene measures:

Good industrial hygiene practices should be observed.  
Wash hands before work breaks and after finishing work.  
Do not eat, drink or smoke while working.

**7.2. Conditions for safe storage, including any incompatibilities**

Ensure good ventilation/extraction.  
Keep container tightly sealed.  
Refer to Technical Data Sheet

**7.3. Specific end use(s)**

PTF ink

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Occupational Exposure Limits

Valid for  
Great Britain

| Ingredient [Regulated substance]                             | ppm | mg/m <sup>3</sup> | Value type                        | Short term exposure limit category / Remarks | Regulatory list |
|--|-----|-------------------|-----------------------------------|--|-----------------|
| 2-Butoxyethyl acetate<br>112-07-2<br>[2-BUTOXYETHYL ACETATE] |     |                   | Skin designation:                 | Can be absorbed through the skin.            | EH40 WEL        |
| 2-Butoxyethyl acetate<br>112-07-2<br>[2-BUTOXYETHYL ACETATE] | 20  | 133               | Time Weighted Average (TWA):      |  | EH40 WEL        |
| 2-Butoxyethyl acetate<br>112-07-2<br>[2-BUTOXYETHYL ACETATE] | 20  | 133               | Time Weighted Average (TWA):      | Indicative                                   | ECTLV           |
| 2-Butoxyethyl acetate<br>112-07-2<br>[2-BUTOXYETHYL ACETATE] | 50  | 333               | Short Term Exposure Limit (STEL): | Indicative                                   | ECTLV           |
| 2-Butoxyethyl acetate<br>112-07-2<br>[2-BUTOXYETHYL ACETATE] | 50  | 332               | Short Term Exposure Limit (STEL): | 15 minutes                                   | EH40 WEL        |
| Carbon black<br>1333-86-4<br>[CARBON BLACK]                  |     | 3,5               | Time Weighted Average (TWA):      |  | EH40 WEL        |
| Carbon black<br>1333-86-4<br>[CARBON BLACK]                  |     | 7                 | Short Term Exposure Limit (STEL): | 15 minutes                                   | EH40 WEL        |
| Graphite<br>7782-42-5<br>[GRAPHITE, INHALABLE DUST]          |     | 10                | Time Weighted Average (TWA):      |  | EH40 WEL        |
| Graphite<br>7782-42-5<br>[GRAPHITE, RESPIRABLE DUST]         |     | 4                 | Time Weighted Average (TWA):      |  | EH40 WEL        |

#### Occupational Exposure Limits

Valid for  
Ireland

| Ingredient [Regulated substance]  | ppm | mg/m <sup>3</sup> | Value type                        | Short term exposure limit category / Remarks | Regulatory list |
|---|-----|-------------------|-----------------------------------|--|-----------------|
| 2-Butoxyethyl acetate<br>112-07-2<br>[2-BUTOXYETHYL ACETATE]                        | 20  | 133               | Time Weighted Average (TWA):      | Indicative                                   | ECTLV           |
| 2-Butoxyethyl acetate<br>112-07-2<br>[2-BUTOXYETHYL ACETATE]                        | 50  | 333               | Short Term Exposure Limit (STEL): | Indicative                                   | ECTLV           |
| 2-Butoxyethyl acetate<br>112-07-2<br>[2-BUTOXYETHYL ACETATE (EGBEA)]                | 50  | 333               | Short Term Exposure Limit (STEL): | 15 minutes<br>Indicative OELV                | IR_OEL          |
| 2-Butoxyethyl acetate<br>112-07-2<br>[2-BUTOXYETHYL ACETATE (EGBEA)]                |     |                   | Skin designation:                 | Can be absorbed through the skin.            | IR_OEL          |
| 2-Butoxyethyl acetate<br>112-07-2<br>[2-BUTOXYETHYL ACETATE (EGBEA)]                | 20  | 133               | Time Weighted Average (TWA):      | Indicative OELV                              | IR_OEL          |
| Carbon black<br>1333-86-4<br>[CARBON BLACK]   |     | 3                 | Time Weighted Average (TWA):      |  | IR_OEL          |
| Graphite<br>7782-42-5<br>[GRAPHITE (ALL FORMS EXCEPT FIBRES) (RESPIRABLE FRACTION)] |     | 2                 | Time Weighted Average (TWA):      |  | IR_OEL          |
| Graphite<br>7782-42-5<br>[GRAPHITE (ALL FORMS EXCEPT FIBRES)]                       |     | 2                 | Time Weighted Average (TWA):      |  | IR_OEL          |

**Predicted No-Effect Concentration (PNEC):**

| Name on list                      | Environmental Compartment    | Exposure period | Value       |     |             |        | Remarks |
|-----------------------------------|------------------------------|-----------------|-------------|-----|-------------|--------|---------|
|                                   |                              |                 | mg/l        | ppm | mg/kg       | others |         |
| 2-Butoxyethyl acetate<br>112-07-2 | sewage treatment plant (STP) |                 | 90 mg/l     |     |             |        |         |
| 2-Butoxyethyl acetate<br>112-07-2 | aqua (freshwater)            |                 | 0,304 mg/l  |     |             |        |         |
| 2-Butoxyethyl acetate<br>112-07-2 | aqua (marine water)          |                 | 0,0304 mg/l |     |             |        |         |
| 2-Butoxyethyl acetate<br>112-07-2 | sediment (freshwater)        |                 |             |     | 2,03 mg/kg  |        |         |
| 2-Butoxyethyl acetate<br>112-07-2 | sediment (marine water)      |                 |             |     | 0,203 mg/kg |        |         |
| 2-Butoxyethyl acetate<br>112-07-2 | Soil                         |                 |             |     | 0,415 mg/kg |        |         |
| 2-Butoxyethyl acetate<br>112-07-2 | aqua (intermittent releases) |                 | 0,56 mg/l   |     |             |        |         |
| 2-Butoxyethyl acetate<br>112-07-2 | oral                         |                 |             |     | 60 mg/kg    |        |         |

**Derived No-Effect Level (DNEL):**

| Name on list                      | Application Area   | Route of Exposure | Health Effect                                | Exposure Time | Value     | Remarks |
|-----------------------------------|--------------------|-------------------|--|---------------|-----------|---------|
| 2-Butoxyethyl acetate<br>112-07-2 | Workers            | inhalation        | Long term exposure - systemic effects        |               | 133 mg/m3 |         |
| 2-Butoxyethyl acetate<br>112-07-2 | Workers            | inhalation        | Acute/short term exposure - local effects    |               | 333 mg/m3 |         |
| 2-Butoxyethyl acetate<br>112-07-2 | Workers            | dermal            | Long term exposure - systemic effects        |               | 169 mg/kg |         |
| 2-Butoxyethyl acetate<br>112-07-2 | Workers            | dermal            | Acute/short term exposure - systemic effects |               | 120 mg/kg |         |
| 2-Butoxyethyl acetate<br>112-07-2 | General population | inhalation        | Long term exposure - systemic effects        |               | 80 mg/m3  |         |
| 2-Butoxyethyl acetate<br>112-07-2 | General population | inhalation        | Acute/short term exposure - local effects    |               | 200 mg/m3 |         |
| 2-Butoxyethyl acetate<br>112-07-2 | General population | dermal            | Long term exposure - systemic effects        |               | 102 mg/kg |         |
| 2-Butoxyethyl acetate<br>112-07-2 | General population | dermal            | Acute/short term exposure - systemic effects |               | 72 mg/kg  |         |
| 2-Butoxyethyl acetate<br>112-07-2 | General population | oral              | Long term exposure - systemic effects        |               | 8,6 mg/kg |         |
| 2-Butoxyethyl acetate<br>112-07-2 | General population | oral              | Acute/short term exposure - systemic effects |               | 36 mg/kg  |         |

**Biological Exposure Indices:**

None

**8.2. Exposure controls:**

Engineering controls:

Ensure good ventilation/extraction.

**Respiratory protection:**

Ensure adequate ventilation.

An approved mask or respirator fitted with an organic vapour cartridge should be worn if the product is used in a poorly ventilated area

Filter type: A (EN 14387)

**Hand protection:**

Chemical-resistant protective gloves (EN 374).

Suitable materials for short-term contact or splashes (recommended: at least protection index 2, corresponding to > 30 minutes permeation time as per EN 374):

nitrile rubber (NBR;  $\geq 0.4$  mm thickness)

Suitable materials for longer, direct contact (recommended: protection index 6, corresponding to > 480 minutes permeation time as per EN 374):

nitrile rubber (NBR;  $\geq 0.4$  mm thickness)

This information is based on literature references and on information provided by glove manufacturers, or is derived by analogy with similar substances. Please note that in practice the working life of chemical-resistant protective gloves may be considerably shorter than the permeation time determined in accordance with EN 374 as a result of the many influencing factors (e.g. temperature). If signs of wear and tear are noticed then the gloves should be replaced.

**Eye protection:**

Safety glasses with sideshields or chemical safety goggles should be worn if there is a risk of splashing.

Protective eye equipment should conform to EN166.

**Skin protection:**

Wear suitable protective clothing.

Protective clothing should conform to EN 14605 for liquid splashes or to EN 13982 for dusts.

**Advices to personal protection equipment:**

The information provided on personal protective equipment is for guidance purposes only. A full risk assessment should be conducted prior to using this product to determine the appropriate personal protective equipment to suit local conditions. Personal protective equipment should conform to the relevant EN standard.

## SECTION 9: Physical and chemical properties

**9.1. Information on basic physical and chemical properties**

|  |                                     |
|--|-------------------------------------|
| Physical state                         | solid                               |
| Delivery form                          | solid                               |
| Colour                                 | black                               |
| Odor                                   | Acetate                             |
| Solidification temperature             | Not applicable, Product is a solid. |
| Initial boiling point                  | 186 °C (366.8 °F)                   |
| Flammability                           | Not applicable                      |
| Explosive limits                       | Currently under determination       |
| Flash point                            | 71 °C (159.8 °F); Closed cup        |
| Auto-ignition temperature              | Not applicable, Product is a solid. |
| Decomposition temperature              | Currently under determination       |
| pH                                     | Currently under determination       |
| Viscosity (kinematic)                  | Not applicable, Product is a solid. |
| Solubility (qualitative)               | Currently under determination       |
| Partition coefficient: n-octanol/water | Currently under determination       |
| Vapour pressure<br>(20 °C (68 °F))     | 0,39 mbar                           |
| Density<br>( )                         | 1 g/cm <sup>3</sup> no method       |
| Relative vapour density:               | Not available.                      |
| Particle characteristics               | Currently under determination       |

**9.2. Other information**

Other information not applicable for this product

**SECTION 10: Stability and reactivity****10.1. Reactivity**

Reacts with alcohols and amines.

Reacts with oxidants, acids and lyes

Reaction with some curing agents may produce an exothermic reaction which in large masses could cause runaway polymerization.

**10.2. Chemical stability**

Stable under recommended storage conditions.

**10.3. Possibility of hazardous reactions**

See section reactivity

**10.4. Conditions to avoid**

No decomposition if stored and applied as directed.

**10.5. Incompatible materials**

See section reactivity.

**10.6. Hazardous decomposition products**

Hydrocarbons

carbon oxides.

nitrogen oxides

Rapid polymerisation may generate excessive heat and pressure.

**SECTION 11: Toxicological information****1.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008****Acute oral toxicity:**

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances<br>CAS-No.   | Value<br>type | Value       | Species | Method                                   |
|-----------------------------------|---------------|-------------|---------|--|
| 2-Butoxyethyl acetate<br>112-07-2 | LD50          | 1.880 mg/kg | rat     | OECD Guideline 401 (Acute Oral Toxicity) |

**Acute dermal toxicity:**

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances<br>CAS-No.   | Value<br>type | Value       | Species | Method        |
|-----------------------------------|---------------|-------------|---------|---------------|
| 2-Butoxyethyl acetate<br>112-07-2 | LD50          | 1.500 mg/kg | rabbit  | not specified |

**Acute inhalative toxicity:**

No substance data available.

No data available.

**Skin corrosion/irritation:**

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances<br>CAS-No.   | Result         | Exposure<br>time | Species | Method    |
|-----------------------------------|----------------|------------------|---------|-----------|
| 2-Butoxyethyl acetate<br>112-07-2 | not irritating |                  | rabbit  | BASF Test |

**Serious eye damage/irritation:**

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances<br>CAS-No.   | Result         | Exposure<br>time | Species | Method    |
|-----------------------------------|----------------|------------------|---------|-----------|
| 2-Butoxyethyl acetate<br>112-07-2 | not irritating |                  | rabbit  | BASF Test |

**Respiratory or skin sensitization:**

No data available.

**Germ cell mutagenicity:**

No data available.

**Carcinogenicity**

No data available.

**Reproductive toxicity:**

No data available.

**STOT-single exposure:**

No data available.

**STOT-repeated exposure::**

No data available.

**Aspiration hazard:**

No data available.

**11.2 Information on other hazards**

not applicable



## SECTION 12: Ecological information

### General ecological information:

Do not empty into drains / surface water / ground water.

### 12.1. Toxicity

#### Toxicity (Fish):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances<br>CAS-No.   | Value<br>type | Value   | Exposure time | Species        | Method       |
|-----------------------------------|---------------|---------|---------------|----------------|--------------|
| 2-Butoxyethyl acetate<br>112-07-2 | LC50          | 80 mg/l | 48 h          | Leuciscus idus | DIN 38412-15 |

#### Toxicity (Daphnia):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances<br>CAS-No.   | Value<br>type | Value   | Exposure time | Species       | Method             |
|-----------------------------------|---------------|---------|---------------|---------------|--------------------|
| 2-Butoxyethyl acetate<br>112-07-2 | EC50          | 37 mg/l | 48 h          | Daphnia magna | DIN 38412, part 11 |

#### Chronic toxicity to aquatic invertebrates

No data available.

#### Toxicity (Algae):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances<br>CAS-No.   | Value<br>type | Value      | Exposure time | Species   | Method       |
|-----------------------------------|---------------|------------|---------------|---|--------------|
| 2-Butoxyethyl acetate<br>112-07-2 | EC10          | > 500 mg/l | 72 h          | Scenedesmus subspicatus (new name: Desmodesmus subspicatus) | DIN 38412-09 |
| 2-Butoxyethyl acetate<br>112-07-2 | EC50          | > 500 mg/l | 72 h          | Scenedesmus subspicatus (new name: Desmodesmus subspicatus) | DIN 38412-09 |

#### Toxicity to microorganisms

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances<br>CAS-No.   | Value<br>type | Value    | Exposure time | Species | Method        |
|-----------------------------------|---------------|----------|---------------|---------|---------------|
| 2-Butoxyethyl acetate<br>112-07-2 | EC10          | 720 mg/l | 17 h          |         | not specified |

### 12.2. Persistence and degradability

| Hazardous substances<br>CAS-No.   | Result                | Test type | Degradability | Exposure time | Method   |
|-----------------------------------|-----------------------|-----------|---------------|---------------|--|
| 2-Butoxyethyl acetate<br>112-07-2 | readily biodegradable | aerobic   | 76 %          | 30 d          | EU Method C.4-E (Determination of the "Ready" Biodegradability Closed Bottle Test) |

### 12.3. Bioaccumulative potential

No data available.

### 12.4. Mobility in soil

| Hazardous substances<br>CAS-No.   | LogPow | Temperature | Method   |
|-----------------------------------|--------|-------------|--|
| 2-Butoxyethyl acetate<br>112-07-2 | 1,51   |             | OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method) |

**12.5. Results of PBT and vPvB assessment**

| Hazardous substances<br>CAS-No.   | PBT / vPvB  |
|-----------------------------------|---|
| 2-Butoxyethyl acetate<br>112-07-2 | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria. |

**12.6. Endocrine disrupting properties**

not applicable

**12.7. Other adverse effects**

No data available.

## SECTION 13: Disposal considerations

**13.1. Waste treatment methods**

Product disposal:

Do not empty into drains / surface water / ground water.

Dispose of in accordance with local and national regulations.

Disposal of uncleaned packages:

After use, tubes, cartons and bottles containing residual product should be disposed of as chemically contaminated waste in an authorised legal land fill site or incinerated.

Waste code

08 04 10 Waste adhesives and sealants other than those mentioned in 08 04 09.

The valid EWC waste code numbers are source-related. The manufacturer is therefore unable to specify EWC waste codes for the articles or products used in the various sectors. The EWC codes listed are intended as a recommendation for users. We will be happy to advise you.

## SECTION 14: Transport information

**14.1. UN number or ID number**

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

**14.2. UN proper shipping name**

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

**14.3. Transport hazard class(es)**

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

**14.4. Packing group**

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

**14.5. Environmental hazards**

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

**14.6. Special precautions for user**

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

**14.7. Maritime transport in bulk according to IMO instruments**

not applicable

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

|   |                |
|---|----------------|
| Ozone Depleting Substance (ODS) (Regulation (EC) No 1005/2009): | Not applicable |
| Prior Informed Consent (PIC) (Regulation (EU) No 649/2012):     | Not applicable |
| Persistent organic pollutants (Regulation (EU) 2019/1021):      | Not applicable |
| VOC content<br>(2010/75/EC)                                     | 49,2 %         |

**15.2. Chemical safety assessment**

A chemical safety assessment has not been carried out.

**SECTION 16: Other information**

The labelling of the product is indicated in Section 2. The full text of all abbreviations indicated by codes in this safety data sheet are as follows:

H302 Harmful if swallowed.  
H312 Harmful in contact with skin.  
H332 Harmful if inhaled.

|             |   |
|-------------|---|
| ED:         | Substance identified as having endocrine disrupting properties  |
| EU OEL:     | Substance with a Union workplace exposure limit   |
| EU EXPLD 1: | Substance listed in Annex I, Reg (EC) No. 2019/1148   |
| EU EXPLD 2  | Substance listed in Annex II, Reg (EC) No. 2019/1148  |
| SVHC:       | Substance of very high concern (REACH Candidate List)   |
| PBT:        | Substance fulfilling persistent, bioaccumulative and toxic criteria   |
| PBT/vPvB:   | Substance fulfilling persistent, bioaccumulative and toxic plus very persistent and very bioaccumulative criteria |
| vPvB:       | Substance fulfilling very persistent and very bioaccumulative criteria  |

**Further information:**

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