

**Trade name:** 74000-00105, ink, yellow

**Current version :** 1.0.2, issued: 29.07.2024

**Replaced version:** 1.0.1, issued: 24.07.2023

**Region:**  
GER

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

### 1.1 Product identifier

**Trade name**

**74000-00105, ink, yellow**

**74000-00205, ink, yellow**

**UFI:**

**00P2-S04D-100J-QDM8**

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

**Relevant identified uses of the substance or mixture**

printer's ink

Ink

**Uses advised against**

No data available.

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

**Address**

Paul Leibinger GmbH & Co. KG

Daimlerstrasse 14

78532 Tuttlingen

Telephone no. +49 (0)7461 9286 0

Fax no. +49 (0)7461 9286 119

e-mail info@leibinger-group.com

**Advice on Safety Data Sheet**

sdb\_info@umco.de

**Subsidiary USA:**

**Address**

Paul Leibinger Inc

2702 Buell Drive, Suite B

East Troy, WI 52120 USA

Phone: +01 262 642 4030

### 1.4 Emergency telephone number

For medical advice (in German and English):

+49 (0)551 192 40 (Giftinformationszentrum Nord)

For medical advice in the USA (Transport & Environment):

+1 800 255 3924 (24h service)

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

**Classification in accordance with Regulation (EC) No 1272/2008 (CLP)**

Eye Irrit. 2; H319

Flam. Liq. 2; H225

STOT SE 3; H336

**Classification information**

This product is assessed and classified using the methods and criteria below referred to in Article 9 of Regulation (EC) n° 1272/2008:

Physical hazards: determined through assessment data based on the methods or standards referred to in part 2 of Annex I to CLP

Health hazards and environmental hazards: determined through toxicological and ecotoxicological assessment data based on the methods or standards referred to in Part 3, 4 and 5 of Annex I to CLP.

### 2.2 Label elements

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GHS02



GHS07

**Signal word**

Danger

**Hazardous component(s) to be indicated on label:**

butanone

**Hazard statement(s)**

H225 Highly flammable liquid and vapour.  
 H319 Causes serious eye irritation.  
 H336 May cause drowsiness or dizziness.

**Hazard statements (EU)**

EUH066 Repeated exposure may cause skin dryness or cracking.

**Precautionary statement(s)**

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
 P240 Ground and bond container and receiving equipment.  
 P241 Use explosion-proof electrical/ventilating/lighting/ equipment.  
 P242 Use non-sparking tools.  
 P243 Take action to prevent static discharges.  
 P261 Avoid breathing mist/vapours/spray.  
 P280 Wear protective gloves/protective clothing/eye protection/face protection.  
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P370+P378 In case of fire: Use sand, fire powder, carbon dioxide or foam to extinguish.

**UFI:**

00P2-S04D-100J-QDM8

**2.3 Other hazards**

PBT assessment

The components of this product are not considered to be a PBT.

vPvB assessment

The components of this product are not considered to be a vPvB.

**SECTION 3: Composition/information on ingredients****3.1 Substances**

Not applicable. The product is not a substance.

**3.2 Mixtures****Hazardous ingredients**

| No | Substance name   | Additional information  |                        |
|----|--|---|------------------------|
|    | CAS / EC / Index / REACH no                              | Classification (EC) 1272/2008 (CLP)                                   | Concentration %        |
| 1  | butanone   |   |                        |
|    | 78-93-3<br>201-159-0<br>606-002-00-3<br>01-2119457290-43 | Flam. Liq. 2; H225<br>Eye Irrit. 2; H319<br>STOT SE 3; H336<br>EUH066 | >= 70,00 - < 90,00 wt% |
| 2  | Tetrabutylammonium nitrate                               |   |                        |

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|   |   |  |        |     |
|---|---|--|--------|-----|
|   | 1941-27-1<br>217-726-0<br>-<br>-                          | Ox. Sol. 2; H272<br>Skin Irrit. 2; H315<br>Eye Irrit. 2; H319<br>STOT SE 3; H335 | < 5,00 | wt% |
| 3 | <b>n-butyl acetate</b>                                    |  |        |     |
|   | 123-86-4<br>204-658-1<br>607-025-00-1<br>01-2119485493-29 | EUH066<br>Flam. Liq. 3; H226<br>STOT SE 3; H336                                  | < 5,00 | wt% |

Full Text for all H-phrases and EUH-phrases: pls. see section 16

**SECTION 4: First aid measures****4.1 Description of first aid measures****General information**

Remove contaminated clothing and shoes immediately, and launder thoroughly before reusing. In case of persisting adverse effects, consult a physician.

**After inhalation**

Remove affected persons from dangerous area by observing suitable respiratory protection measures. Ensure supply of fresh air.

**After skin contact**

In case of contact with skin wash off with water.

**After eye contact**

Remove contact lenses. Rinse eye thoroughly under running water keeping eyelids wide open and protecting the unaffected eye (at least 10 to 15 minutes). Get medical attention if pain still persists.

**After ingestion**

Rinse the mouth thoroughly with water. Do not induce vomiting. Never give anything by mouth to an unconscious person.

**4.2 Most important symptoms and effects, both acute and delayed**

No data available.

**4.3 Indication of any immediate medical attention and special treatment needed**

No data available.

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

Alcohol resistant foam, CO<sub>2</sub>, powders, water spray

**Unsuitable extinguishing media**

High power water jet

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

In the event of fire, the following can be released: Carbon dioxide (CO<sub>2</sub>); Carbon monoxide (CO); Nitrogen oxides (NO<sub>x</sub>)

**5.3 Advice for firefighters**

Use self-contained breathing apparatus. Wear protective clothing. Containers close to fire should be transferred to a safe place. Cool closed containers exposed to fire with water.

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

Refer to protective measures listed in sections 7 and 8. Keep away from ignition sources.

**For emergency responders**

Personal protective equipment (PPE) - see section 8.

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GER**6.2 Environmental precautions**

Do not discharge into the drains/surface waters/groundwater. Do not discharge into the subsoil/soil.

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

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations (see section 13).

**6.4 Reference to other sections**

Information regarding safe handling, see section 7. Information regarding personal protective measures, see section 8. Information regarding waste disposal, see section 13.

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

Risks inherent to handling the product must be minimised by applying the appropriate protective and preventive measures. Working processes should - so far as possible, according to the state of the art - be designed to rule out bodily contact or the release of hazardous substances.

**General protective and hygiene measures**

Do not eat, drink or smoke during work time. Keep away from foodstuffs and beverages. Do not inhale vapours. Avoid contact with eyes and skin. Wash hands before breaks and after work. Remove contaminated clothing and shoes and launder thoroughly before reusing.

**Advice on protection against fire and explosion**

Keep away from ignition sources and provide for good ventilation. Vapours can form an explosive mixture with air. Isolate from sources of heat, sparks and open flame. Take precautionary measures against electrostatic loading (earthing necessary during loading operations). Use explosion-proof equipment/fittings and non-sparking tools.

**7.2 Conditions for safe storage, including any incompatibilities****Technical measures and storage conditions**

Keep container tightly closed and dry in a cool, well-ventilated place.

**Recommended storage temperature**

Value 10 - 25

**Requirements for storage rooms and vessels**

Containers which are opened must be carefully closed and kept upright to prevent leakage. Always keep in containers of same material as the original.

**Incompatible products**

Substances to be avoided, see section 10.

**Storage Class according TRGS 510**

3 Flammable liquids

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

Ink for industrial CIJ printers

**SECTION 8: Exposure controls/personal protection****8.1 Control parameters****Occupational exposure limit values**

| No | Substance name                            | CAS no. | EC no.                |
|----|---|---------|-----------------------|
| 1  | butanone                                  | 78-93-3 | 201-159-0             |
|    | TRGS 900                                  |         |                       |
|    | Butanon                                   |         |                       |
|    | WEL long-term (8-hr TWA reference period) | 600     | mg/m <sup>3</sup> 200 |
|    | Ceiling Limit                             | 1(l)    | ml/m <sup>3</sup>     |
|    | Skin resorption / sensibilisation         | H       |                       |

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|---|---|----------|-------|-----------|-------|
|   | Notes                                     | Y        |       |           |       |
|   | 2000/39/EC                                |          |       |           |       |
|   | Butanone                                  |          |       |           |       |
|   | WEL short-term (15 min reference period)  | 900      | mg/m³ | 300       | ppm   |
|   | WEL long-term (8-hr TWA reference period) | 600      | mg/m³ | 200       | ppm   |
| 2 | n-butyl acetate                           | 123-86-4 |       | 204-658-1 |       |
|   | TRGS 900                                  |          |       |           |       |
|   | n-Butylacetat                             |          |       |           |       |
|   | WEL long-term (8-hr TWA reference period) | 300      | mg/m³ | 62        | ml/m³ |
|   | Ceiling Limit                             | 2(l)     |       |           |       |
|   | Notes                                     | Y        |       |           |       |
|   | EU 2019/1831                              |          |       |           |       |
|   | n-Butyl acetate                           |          |       |           |       |
|   | WEL short-term (15 min reference period)  | 723      | mg/m³ | 150       | ppm   |
|   | WEL long-term (8-hr TWA reference period) | 241      | mg/m³ | 50        | ppm   |

**Biological limit values**

| No       | Substance name               |           |
|----------|------------------------------|-----------|
| <b>1</b> | <b>butanone</b>              |           |
|          | <b>TRGS 903</b>              |           |
|          | 2-Butanon (Methylethylketon) |           |
|          | parameter                    | 2-Butanon |
|          | Value                        | 2 mg/l    |
|          | Comments                     | DFG       |
|          | sample material              | U         |
|          | Sampling moment              | b         |

**DNEL, DMEL and PNEC values****DNEL values (worker)**

| No       | Substance name         |                     |          | CAS / EC no     |                   |
|----------|------------------------|---------------------|----------|-----------------|-------------------|
|          | Route of exposure      | Exposure time       | Effect   | Value           |                   |
| <b>1</b> | <b>butanone</b>        |                     |          | <b>78-93-3</b>  | <b>201-159-0</b>  |
|          | dermal                 | Long term (chronic) | systemic | 1161            | mg/kg/day         |
|          | inhalative             | Long term (chronic) | systemic | 600             | mg/m <sup>3</sup> |
|          | inhalative             | Short term (acut)   | systemic | 900             | mg/m <sup>3</sup> |
| <b>2</b> | <b>n-butyl acetate</b> |                     |          | <b>123-86-4</b> | <b>204-658-1</b>  |
|          | dermal                 | Long term (chronic) | systemic | 11              | mg/kg/day         |
|          | dermal                 | Short term (acut)   | systemic | 11              | mg/kg/day         |
|          | inhalative             | Long term (chronic) | systemic | 300             | mg/m <sup>3</sup> |
|          | inhalative             | Short term (acut)   | systemic | 600             | mg/m <sup>3</sup> |
|          | inhalative             | Long term (chronic) | local    | 300             | mg/m <sup>3</sup> |
|          | inhalative             | Short term (acut)   | local    | 600             | mg/m <sup>3</sup> |

**DNEL value (consumer)**

| No       | Substance name         |                     |          | CAS / EC no     |                   |
|----------|------------------------|---------------------|----------|-----------------|-------------------|
|          | Route of exposure      | Exposure time       | Effect   | Value           |                   |
| <b>1</b> | <b>butanone</b>        |                     |          | <b>78-93-3</b>  | <b>201-159-0</b>  |
|          | oral                   | Long term (chronic) | systemic | 31              | mg/kg/day         |
|          | dermal                 | Long term (chronic) | systemic | 412             | mg/kg/day         |
|          | inhalative             | Long term (chronic) | systemic | 106             | mg/m <sup>3</sup> |
|          | inhalative             | Short term (acut)   | systemic | 450             | mg/m <sup>3</sup> |
| <b>2</b> | <b>n-butyl acetate</b> |                     |          | <b>123-86-4</b> | <b>204-658-1</b>  |
|          | oral                   | Long term (chronic) | systemic | 2               | mg/kg/day         |
|          | oral                   | Short term (acut)   | systemic | 2               | mg/kg/day         |

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|--|------------|---------------------|----------|------|-------------------|
|  | dermal     | Long term (chronic) | systemic | 6    | mg/kg/day         |
|  | dermal     | Short term (acute)  | systemic | 6    | mg/kg/day         |
|  | inhalative | Long term (chronic) | systemic | 35,7 | mg/m <sup>3</sup> |
|  | inhalative | Short term (acute)  | systemic | 300  | mg/m <sup>3</sup> |
|  | inhalative | Long term (chronic) | local    | 35,7 | mg/m <sup>3</sup> |
|  | inhalative | Short term (acute)  | local    | 300  | mg/m <sup>3</sup> |

**PNEC values**

| No | Substance name         |                       | CAS / EC no            |
|----|------------------------|-----------------------|------------------------|
|    | ecological compartment | Type                  | Value                  |
| 1  | n-butyl acetate        |                       | 123-86-4<br>204-658-1  |
|    | water                  | fresh water           | 0,18 mg/L              |
|    | water                  | marine water          | 0,018 mg/L             |
|    | water                  | fresh water sediment  | 0,981 mg/kg dry weight |
|    | water                  | marine water sediment | 0,098 mg/kg dry weight |
|    | soil                   | -                     | 0,09 mg/kg             |
|    | sewage treatment plant | -                     | 35,6 mg/L              |

**8.2 Exposure controls****Appropriate engineering controls**

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapour below the OEL (=Occupational Exposure Limit), suitable respiratory protection must be worn.

**Personal protective equipment****Respiratory protection**

If workplace exposure limits are exceeded, a respiration protection approved for this particular job must be worn. In case of aerosol and mist formation, take appropriate measures for breathing protection in the event workplace threshold values are not specified.

**Eye / face protection**

Safety glasses with side protection shield (EN 166)

**Hand protection**

Sufficient protection is given wearing suitable protective gloves checked according to i.e. EN 374, in the event of risk of skin contact with the product. Before use, the protective gloves should be tested in any case for its specific work-station suitability (i.e. mechanical resistance, product compatibility and antistatic properties). Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement of protective gloves. Protective gloves shall be replaced immediately when physically damaged or worn. Design operations thus to avoid permanent use of protective gloves.

**Other**

Normal chemical work clothing.

**Environmental exposure controls**

No data available.

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

|                             |
|-----------------------------|
| <b>State of aggregation</b> |
| liquid                      |
| <b>Colour</b>               |
| yellow                      |
| <b>Odour</b>                |
| acrid                       |
| <b>pH value</b>             |

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|   |                 |  |            |
|---|-----------------|--|------------|
| reason for missing pH                             |                 | substance/mixture is non-polar/aprotic |            |
| Boiling point / boiling range                     |                 |  |            |
| Value   |                 | 79 °C                                  |            |
| Source  |                 | supplier                               |            |
| Melting point/freezing point                      |                 |  |            |
| No data available                                 |                 |  |            |
| Decomposition temperature                         |                 |  |            |
| No data available                                 |                 |  |            |
| Flash point                                       |                 |  |            |
| Value   |                 | -8 °C                                  |            |
| Source  |                 | supplier                               |            |
| Ignition temperature                              |                 |  |            |
| No data available                                 |                 |  |            |
| Auto-ignition temperature                         |                 |  |            |
| Value   |                 | 415 °C                                 |            |
| Source  |                 | supplier                               |            |
| Flammability                                      |                 |  |            |
| No data available                                 |                 |  |            |
| Lower explosion limit                             |                 |  |            |
| No data available                                 |                 |  |            |
| Upper explosion limit                             |                 |  |            |
| No data available                                 |                 |  |            |
| Vapour pressure                                   |                 |  |            |
| Value   |                 | 10,15                                  | hPa        |
| Reference temperature                             |                 | 18,49                                  | °C         |
| Relative vapour density                           |                 |  |            |
| No data available                                 |                 |  |            |
| Relative density                                  |                 |  |            |
| No data available                                 |                 |  |            |
| Density   |                 |  |            |
| Value   |                 | 7,28                                   | lbs/gallon |
| Source  |                 | supplier                               |            |
| Solubility  |                 |  |            |
| No data available                                 |                 |  |            |
| Partition coefficient n-octanol/water (log value) |                 |  |            |
| No  | Substance name  | CAS no.                                | EC no.     |
| 1   | butanone        | 78-93-3                                | 201-159-0  |
| log Pow   |                 | 0,3                                    | °C         |
| Reference temperature                             |                 | 40                                     |            |
| Method  |                 | OECD 117                               |            |
| Source  |                 | ECHA                                   |            |
| 2   | n-butyl acetate | 123-86-4                               | 204-658-1  |
| log Pow   |                 | 2,3                                    | °C         |
| Reference temperature                             |                 | 25                                     |            |
| Method  |                 | OECD 117                               |            |
| Source  |                 | ECHA                                   |            |
| Kinematic viscosity                               |                 |  |            |
| No data available                                 |                 |  |            |
| Particle characteristics                          |                 |  |            |

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No data available

**9.2 Other information****Other information**

Temperature class (EU ATEX): T2

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

Dangerous reactions are not expected if the product is handled according to its intended use.

**10.2 Chemical stability**

Stable under recommended storage and handling conditions (See section 7).

**10.3 Possibility of hazardous reactions**

Dangerous reactions are not to be expected when handling product according to its intended use.

**10.4 Conditions to avoid**

Heat, naked flames and other ignition sources.

**10.5 Incompatible materials**

Oxidizing agents

**10.6 Hazardous decomposition products**

None, if handled according to intended use.

**SECTION 11: Toxicological information****11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**

| Acute oral toxicity |                    |          |                  |
|---------------------|--------------------|----------|------------------|
| No                  | Substance name     | CAS no.  | EC no.           |
| 1                   | butanone           | 78-93-3  | 201-159-0        |
| LD50                |                    | 2054     | mg/kg bodyweight |
| Species             | rat                |          |                  |
| Method              | OECD 423           |          |                  |
| Source              | ECHA / Read across |          |                  |
| 2                   | n-butyl acetate    | 123-86-4 | 204-658-1        |
| LD50                |                    | 10760    | mg/kg bodyweight |
| Species             | rat                |          |                  |
| Method              | OECD 423           |          |                  |
| Source              | ECHA               |          |                  |

| Acute dermal toxicity |                 |          |                  |
|-----------------------|-----------------|----------|------------------|
| No                    | Substance name  | CAS no.  | EC no.           |
| 1                     | n-butyl acetate | 123-86-4 | 204-658-1        |
| LD50                  |                 | > 14112  | mg/kg bodyweight |
| Species               | rabbit          |          |                  |
| Method                | OECD 402        |          |                  |
| Source                | ECHA            |          |                  |

| Acute inhalational toxicity |  |  |  |
|-----------------------------|--|--|--|
| No data available           |  |  |  |

| Skin corrosion/irritation |                    |         |           |
|---------------------------|--------------------|---------|-----------|
| No                        | Substance name     | CAS no. | EC no.    |
| 1                         | butanone           | 78-93-3 | 201-159-0 |
| Duration of exposure      |                    | 4       | h         |
| Species                   | rabbit             |         |           |
| Method                    | OECD 404           |         |           |
| Source                    | ECHA / Read across |         |           |
| Evaluation                | non-irritant       |         |           |



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| 2          | n-butyl acetate | 123-86-4 | 204-658-1 |
|------------|-----------------|----------|-----------|
| Species    | rabbit          |          |           |
| Method     | OECD 404        |          |           |
| Source     | ECHA            |          |           |
| Evaluation | non-irritant    |          |           |

**Serious eye damage/irritation**

| No         | Substance name  | CAS no.  | EC no.    |
|------------|-----------------|----------|-----------|
| 1          | butanone        | 78-93-3  | 201-159-0 |
| Species    | rabbit          |          |           |
| Method     | OECD 405        |          |           |
| Source     | ECHA            |          |           |
| Evaluation | irritant        |          |           |
| 2          | n-butyl acetate | 123-86-4 | 204-658-1 |
| Species    | rabbit          |          |           |
| Method     | OECD 405        |          |           |
| Source     | ECHA            |          |           |
| Evaluation | non-irritant    |          |           |

**Respiratory or skin sensitisation**

| No                | Substance name  | CAS no. | EC no.    |
|-------------------|-----------------|---------|-----------|
| 1                 | butanone        | 78-93-3 | 201-159-0 |
| Route of exposure | Skin            |         |           |
| Species           | guinea pig      |         |           |
| Method            | OECD 406        |         |           |
| Source            | ECHA            |         |           |
| Evaluation        | non-sensitizing |         |           |

**Germ cell mutagenicity**

| No                        | Substance name  | CAS no.  | EC no.    |
|---------------------------|---|----------|-----------|
| 1                         | butanone  | 78-93-3  | 201-159-0 |
| Type of examination       | in vitro gene mutation study in bacteria                                      |          |           |
| Species                   | Salmonella typhimurium  |          |           |
| Method                    | OECD 471  |          |           |
| Source                    | ECHA  |          |           |
| Evaluation/classification | Based on available data, the classification criteria are not met.             |          |           |
| Type of examination       | In vitro Mammalian Chromosomal Aberration Test                                |          |           |
| Species                   | rat   |          |           |
| Method                    | OECD 473  |          |           |
| Source                    | ECHA  |          |           |
| Evaluation/classification | Based on available data, the classification criteria are not met.             |          |           |
| Type of examination       | In vitro mammalian cell gene mutation test                                    |          |           |
| Species                   | Mouse lymphoma cells  |          |           |
| Method                    | OECD 476  |          |           |
| Source                    | ECHA  |          |           |
| Evaluation/classification | Based on available data, the classification criteria are not met.             |          |           |
| Type of examination       | In vivo mammalian somatic cell study: cytogenicity / erythrocyte micronucleus |          |           |
| Species                   | mouse   |          |           |
| Method                    | OECD 474  |          |           |
| Source                    | ECHA  |          |           |
| Evaluation/classification | Based on available data, the classification criteria are not met.             |          |           |
| 2                         | n-butyl acetate   | 123-86-4 | 204-658-1 |
| Source                    | ECHA  |          |           |
| Evaluation/classification | Based on available data, the classification criteria are not met.             |          |           |

**Reproduction toxicity**

| No                  | Substance name                        | CAS no. | EC no.    |
|---------------------|---------------------------------------|---------|-----------|
| 1                   | butanone                              | 78-93-3 | 201-159-0 |
| Route of exposure   | inhalational                          |         |           |
| Type of examination | Prenatal Developmental Toxicity Study |         |           |

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|                           |   |
|---------------------------|---|
| Species                   | rat   |
| Method                    | OECD 414  |
| Source                    | ECHA  |
| Evaluation/classification | Based on available data, the classification criteria are not met. |
| <b>2</b>                  | <b>n-butyl acetate</b>  |
|                           | <b>123-86-4</b>   |
|                           | <b>204-658-1</b>  |
| Source                    | ECHA  |
| Evaluation/classification | Based on available data, the classification criteria are not met. |

| Carcinogenicity           |   |                |                  |
|---------------------------|---|----------------|------------------|
| No                        | Substance name  | CAS no.        | EC no.           |
| <b>1</b>                  | <b>butanone</b>   | <b>78-93-3</b> | <b>201-159-0</b> |
| Source                    | ECHA  |                |                  |
| Evaluation/classification | Based on available data, the classification criteria are not met. |                |                  |

| STOT - single exposure |  |  |  |
|------------------------|--|--|--|
| No data available      |  |  |  |

| STOT - repeated exposure  |   |                 |                  |
|---------------------------|---|-----------------|------------------|
| No                        | Substance name  | CAS no.         | EC no.           |
| <b>1</b>                  | <b>butanone</b>   | <b>78-93-3</b>  | <b>201-159-0</b> |
| Route of exposure         | inhalational  |                 |                  |
| Species                   | rat   |                 |                  |
| Method                    | OECD 413  |                 |                  |
| Source                    | ECHA  |                 |                  |
| Evaluation/classification | Based on available data, the classification criteria are not met. |                 |                  |
| <b>2</b>                  | <b>n-butyl acetate</b>  | <b>123-86-4</b> | <b>204-658-1</b> |
| Route of exposure         | inhalational  |                 |                  |
| NOAEC                     |   | 500             | ppm              |
| Duration of exposure      |   | 90              | day(s)           |
| Species                   | rat   |                 |                  |
| Method                    | EPA OTS 798.2450  |                 |                  |
| Source                    | ECHA  |                 |                  |
| Evaluation/classification | Based on available data, the classification criteria are not met. |                 |                  |

| Aspiration hazard |  |  |  |
|-------------------|--|--|--|
| No data available |  |  |  |

## 11.2 Information on other hazards

## Endocrine disrupting properties

No data available.

## Other information

No data available.

## SECTION 12: Ecological information

## 12.1 Toxicity

| Toxicity to fish (acute) |                        |                 |                  |
|--------------------------|------------------------|-----------------|------------------|
| No                       | Substance name         | CAS no.         | EC no.           |
| <b>1</b>                 | <b>butanone</b>        | <b>78-93-3</b>  | <b>201-159-0</b> |
| LC50                     |                        | 2973            | mg/l             |
| Duration of exposure     |                        | 96              | h                |
| Species                  | Pimephales promelas    |                 |                  |
| Method                   | OECD 203               |                 |                  |
| Source                   | ECHA                   |                 |                  |
| <b>2</b>                 | <b>n-butyl acetate</b> | <b>123-86-4</b> | <b>204-658-1</b> |
| LC50                     |                        | 18              | mg/l             |
| Duration of exposure     |                        | 96              | h                |
| Species                  | Pimephales promelas    |                 |                  |
| Method                   | OECD 203               |                 |                  |
| Source                   | ECHA                   |                 |                  |

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|                           |   |
|---------------------------|---|
| Evaluation/classification | Based on available data, the classification criteria are not met. |
|---------------------------|---|

| Toxicity to fish (chronic) |  |  |
|----------------------------|--|--|
| No data available          |  |  |

| Toxicity to Daphnia (acute) |   |          |           |
|-----------------------------|---|----------|-----------|
| No                          | Substance name  | CAS no.  | EC no.    |
| 1                           | butanone  | 78-93-3  | 201-159-0 |
| EC50                        |   | 308      | mg/l      |
| Duration of exposure        |   | 48       | h         |
| Species                     | Daphnia magna   |          |           |
| Method                      | OECD 202  |          |           |
| Source                      | ECHA  |          |           |
| 2                           | n-butyl acetate   | 123-86-4 | 204-658-1 |
| EC50                        |   | 44       | mg/l      |
| Duration of exposure        |   | 48       | h         |
| Species                     | Daphnia magna   |          |           |
| Source                      | ECHA  |          |           |
| Evaluation/classification   | Based on available data, the classification criteria are not met. |          |           |

| Toxicity to Daphnia (chronic) |   |          |           |
|-------------------------------|---|----------|-----------|
| No                            | Substance name  | CAS no.  | EC no.    |
| 1                             | n-butyl acetate   | 123-86-4 | 204-658-1 |
| NOEC                          |   | 23       | mg/l      |
| Duration of exposure          |   | 21       | day(s)    |
| Species                       | Daphnia magna   |          |           |
| with reference to             | CAS 110-19-0  |          |           |
| Method                        | OECD 211  |          |           |
| Source                        | ECHA  |          |           |
| Evaluation/classification     | Based on available data, the classification criteria are not met. |          |           |

| Toxicity to algae (acute) |                           |          |           |
|---------------------------|---------------------------|----------|-----------|
| No                        | Substance name            | CAS no.  | EC no.    |
| 1                         | butanone                  | 78-93-3  | 201-159-0 |
| EC50                      |                           | 1220     | mg/l      |
| Duration of exposure      |                           | 96       | h         |
| Species                   | Raphidocelis subcapitata  |          |           |
| Method                    | OECD 201                  |          |           |
| Source                    | ECHA                      |          |           |
| 2                         | n-butyl acetate           | 123-86-4 | 204-658-1 |
| EC50                      |                           | 397      | mg/l      |
| Duration of exposure      |                           | 72       | h         |
| Species                   | Selenastrum capricornutum |          |           |
| Method                    | OECD 201                  |          |           |
| Source                    | ECHA                      |          |           |

| Toxicity to algae (chronic) |                 |                          |           |
|-----------------------------|-----------------|--------------------------|-----------|
| No                          | Substance name  | CAS no.                  | EC no.    |
| 1                           | n-butyl acetate | 123-86-4                 | 204-658-1 |
| NOEC                        |                 | 196                      | mg/l      |
| Duration of exposure        |                 | 72                       | h         |
| Species                     |                 | Raphidocelis subcapitata |           |
| Method                      |                 | OECD 201                 |           |
| Source                      |                 | ECHA                     |           |

| Bacteria toxicity    |                 |                                   |           |
|----------------------|-----------------|-----------------------------------|-----------|
| No                   | Substance name  | CAS no.                           | EC no.    |
| 1                    | n-butyl acetate | 123-86-4                          | 204-658-1 |
| IC50                 |                 | 356                               | mg/l      |
| Duration of exposure |                 | 40                                | h         |
| Species              |                 | Tetrahymena pyriformis (Protozoa) |           |

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Source | ECHA

**12.2 Persistence and degradability**

| Biodegradability |                        |          |           |
|------------------|------------------------|----------|-----------|
| No               | Substance name         | CAS no.  | EC no.    |
| 1                | butanone               | 78-93-3  | 201-159-0 |
| Type             | aerobic biodegradation |          |           |
| Value            |                        | 98       | %         |
| Duration         |                        | 28       | day(s)    |
| Method           | OECD 301 D             |          |           |
| Source           | ECHA                   |          |           |
| Evaluation       | readily biodegradable  |          |           |
| 2                | n-butyl acetate        | 123-86-4 | 204-658-1 |
| Type             | aerobic biodegradation |          |           |
| Value            |                        | 83       | %         |
| Duration         |                        | 28       | day(s)    |
| Method           | OECD 301 D             |          |           |
| Source           | ECHA                   |          |           |
| Evaluation       | readily biodegradable  |          |           |

  

| Abiotic Degradation   |                 |          |           |
|-----------------------|-----------------|----------|-----------|
| No                    | Substance name  | CAS no.  | EC no.    |
| 1                     | n-butyl acetate | 123-86-4 | 204-658-1 |
| Type                  | Photolysis      |          |           |
| Half-life             |                 | 3,3      | day(s)    |
| Reference temperature |                 | 25       | °C        |
| Source                | ECHA            |          |           |

**12.3 Bioaccumulative potential**

| Bioconcentration factor (BCF) |                               |          |           |
|-------------------------------|-------------------------------|----------|-----------|
| No                            | Substance name                | CAS no.  | EC no.    |
| 1                             | n-butyl acetate               | 123-86-4 | 204-658-1 |
| BCF                           |                               | 15,3     |           |
| Method                        | Calculation model used (Q)SAR |          |           |
| Source                        | ECHA                          |          |           |

  

| Partition coefficient n-octanol/water (log value) |                 |          |           |
|---|-----------------|----------|-----------|
| No  | Substance name  | CAS no.  | EC no.    |
| 1   | butanone        | 78-93-3  | 201-159-0 |
| log Pow   |                 | 0,3      |           |
| Reference temperature                             |                 | 40       | °C        |
| Method  | OECD 117        |          |           |
| Source  | ECHA            |          |           |
| 2   | n-butyl acetate | 123-86-4 | 204-658-1 |
| log Pow   |                 | 2,3      |           |
| Reference temperature                             |                 | 25       | °C        |
| Method  | OECD 117        |          |           |
| Source  | ECHA            |          |           |

**12.4 Mobility in soil**

No data available.

**12.5 Results of PBT and vPvB assessment**

| Results of PBT and vPvB assessment |   |
|------------------------------------|---|
| PBT assessment                     | The components of this product are not considered to be a PBT.  |
| vPvB assessment                    | The components of this product are not considered to be a vPvB. |

**12.6 Endocrine disrupting properties**

No data available.

**12.7 Other adverse effects**

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No data available.

12.8 Other information

| Other information  |
|--|
| Do not discharge product unmonitored into the environment. |

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Disposal of the product should be carried out in accordance with all applicable regulations following consultation with the responsible local authority and the disposal company in an authorised and suitable disposal facility.

Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company.

Packaging

Used, completely emptied, packaging may be disposed of or passed to recovery systems in compliance with national and local provisions related to waste legislation. Like the unused product, the packaging that has not been emptied, may be disposed of or passed to recovery systems in compliance with national and local provisions related to waste legislation.

SECTION 14: Transport information

14.1 UN number or ID number

|                |        |
|----------------|--------|
| ADR/RID/ADN    | UN1210 |
| IMDG           | UN1210 |
| ICAO-TI / IATA | UN1210 |

14.2 UN proper shipping name

|                |              |
|----------------|--------------|
| ADR/RID/ADN    | PRINTING INK |
| IMDG           | PRINTING INK |
| ICAO-TI / IATA | Printing ink |

14.3 Transport hazard class(es)

|                           |      |
|---------------------------|------|
| ADR/RID/ADN - Class       | 3    |
| Label                     | 3    |
| Classification code       | F1   |
| Tunnel restriction code   | D/E  |
| Hazard identification no. | 33   |
| Special Provision 640     | 640C |
| IMDG - Class              | 3    |
| Label                     | 3    |
| ICAO-TI / IATA - Class    | 3    |
| Label                     | 3    |

14.4 Packing group

|                |    |
|----------------|----|
| ADR/RID/ADN    | II |
| IMDG           | II |
| ICAO-TI / IATA | II |

14.5 Environmental hazards

|     |          |
|-----|----------|
| EmS | F-E, S-D |
|-----|----------|

14.6 Special precautions for user

No data available.

14.7 Maritime transport in bulk according to IMO instruments

Not relevant

SECTION 15: Regulatory information

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

### EU regulations

#### Regulation (EC) No 1907/2006 (REACH) Annex XIV (List of substances subject to authorisation)

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substances considered as substances requiring authorisation as listed on Annex XIV of the REACH regulation (EC) 1907/2006.

#### REACH candidate list of substances of very high concern (SVHC) for authorisation

According to available data and the information provided by preliminary suppliers, the product does not contain substances that are considered substances meeting the criteria for inclusion in annex XIV (List of Substances Subject to Authorisation) as laid down in Article 57 and article 59 of REACH (EC) 1907/2006.

#### Regulation (EC) No 1907/2006 (REACH) Annex XVII: RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, MIXTURES AND ARTICLES

The product is considered being subject to REACH regulation (EC) 1907/2006 annex XVII. No 3, 40

The product contains following substance(s) that are considered being subject to REACH regulation (EC) 1907/2006 annex XVII.

| No | Substance name | CAS no. | EC no.    | No |
|----|----------------|---------|-----------|----|
| 1  | butanone       | 78-93-3 | 201-159-0 | 75 |

#### Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances

This product is subject to Part I of Annex I, risk category: P5b

#### Other regulations

Adhere to the national sanitary and occupational safety regulations when using this product.

### National regulations

#### Water Hazard Class (Germany)

Class

1

Source

Classification according to AwSV (Regulation on facilities for handling substances that are hazardous to water).

## 15.2 Chemical safety assessment

A Chemical Safety Assessment has been carried out for one or more of the substances within this mixture.

## SECTION 16: Other information

### Sources of key data used to compile the data sheet:

Regulation (EC) No 1907/2006 (REACH), 1272/2008 (CLP) as amended in each case.

Directives 2000/39/EC, 2006/15/EC, 2009/161/EU, (EU) 2017/164.

National Threshold Limit Values of the corresponding countries as amended in each case.

Transport regulations according to ADR, RID, IMDG, IATA as amended in each case.

The data sources used to determine physical, toxic and ecotoxic data, are indicated directly in the corresponding section.

### Full text of the H- and EUH- phrases drawn up in sections 2 and 3 (provided not already drawn up in these sections)

|      |                                   |
|------|-----------------------------------|
| H226 | Flammable liquid and vapour.      |
| H272 | May intensify fire; oxidiser.     |
| H315 | Causes skin irritation.           |
| H335 | May cause respiratory irritation. |

### Creation of the safety data sheet

UMCO GmbH - D-21107 Hamburg, Georg-Wilhelm-Strasse 187, Tel.: +49(40)555 546 300, Fax: +49(40)555 546 357, e-mail: umco@umco.de

This information is based on our present knowledge and experience.

The safety data sheet describes products with a view to safety requirements.

It does not however, constitute a guarantee for any specific product properties and shall not establish a legally valid contractual relationship.

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Alterations/supplements:

Alterations to the previous edition are marked in the left-hand margin.

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