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# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

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|---|---|---|---|
| **Product:** Butyl Acetate | **Revision date:** 2026-10-29 | **Version:** 1.0 | **Brand:** Richest |

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

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| **Product name** | Butyl Acetate (n-Butyl Acetate) |
| **Synonyms** | n-Butyl acetate; Acetic acid n-butyl ester; BAC |
| **CAS No.** | 123-86-4 |
| **EC No.** | 204-658-1 |
| **Molecular formula** | C6H12O2 |
| **Molecular weight** | 116.16 g/mol |
| **Relevant identified uses** | Solvent for polyurethane coatings, nitrocellulose lacquers, printing inks and adhesives |
| **Uses advised against** | None |
| **Company** | Richest Group Ltd. |
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## SECTION 2: Hazards identification

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| **GHS Classification** | Flam. Liq. 3; STOT SE 3 (Narcotic effects); Aquatic Acute 3 |
| **Pictogram(s)** | GHS02 (Flame); GHS07 (Exclamation mark) |
| **Signal word** | Warning |
| **Hazard statement(s)** | H226 Flammable liquid and vapor H336 May cause drowsiness or dizziness H402 Harmful to aquatic life |
| **Precautionary statement(s)** | P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking |

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| **Other hazards** | None known. |

## SECTION 3: Composition/information on ingredients

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| **Component** | n-Butyl acetate |
| **CAS No.** | 123-86-4 |
| **EC No.** | 204-658-1 |
| **Classification** | Flam. Liq. 3; STOT SE 3; Aquatic Acute 3; H226, H336, H402 |
| **Concentration (%)** | ≥99.5 % |

## SECTION 4: First aid measures

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| **If inhaled** | Remove to fresh air. If not breathing, give artificial respiration. Call a physician. |
| **In case of skin contact** | Take off immediately all contaminated clothing. Rinse skin with water/shower. Consult a physician. |
| **In case of eye contact** | Rinse cautiously with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Call an ophthalmologist. |
| **If swallowed** | Caution if victim vomits. Risk of aspiration! Keep airways free. Call a physician immediately. |
| **Most important symptoms and effects** | Drowsiness or dizziness; narcosis. Pulmonary failure possible after aspiration of vomit. |
| **Indication of any immediate medical attention** | Treat symptomatically. Show this safety data sheet to the doctor in attendance. |

## SECTION 5: Firefighting measures

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| **Suitable extinguishing media** | Dry sand, dry chemical, carbon dioxide (CO2), alcohol-resistant foam |
| **Unsuitable extinguishing media** | Do not use water jet. |
| **Special hazards arising from the chemical** | Carbon oxides. Vapors are heavier than air and may spread along floors. Forms explosive mixtures with air at elevated temperatures. |
| **Advice for firefighters** | Wear self-contained breathing apparatus and full protective clothing for firefighting. Cool closed containers exposed to fire with water spray. |

## SECTION 6: Accidental release measures

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| **Personal precautions, protective** | Use personal protective equipment. Avoid breathing vapors, mist or gas. |

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| **equipment and emergency procedures** | Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. |
| **Environmental precautions** | Do not let product enter drains. Prevent further leakage or spillage if safe to do so. |
| **Methods and materials for containment and cleaning up** | Soak up with inert absorbent material (e.g. sand, vermiculite). Keep in suitable, closed containers for disposal. |

## SECTION 7: Handling and storage

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| **Precautions for safe handling** | Keep away from heat, sparks, open flames and hot surfaces. No smoking. Use explosion-proof equipment and non-sparking tools. Take measures against static discharge. Avoid contact with skin and eyes. |
| **Conditions for safe storage, including any incompatibilities** | Store in a cool, well-ventilated place. Keep container tightly closed. Keep away from strong oxidizing agents, strong acids, strong bases and alkali metals. |

## SECTION 8: Exposure controls/personal protection

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| **Occupational exposure limit values** | ACGIH TLV: TWA 50 ppm, STEL 150 ppm; China PC-TWA: 200 mg/m3, PC-STEL: 300 mg/m3 |
| **Biological limit values** | No biological exposure index (BEI) established. |
| **Appropriate engineering controls** | Ensure adequate ventilation. Provide eyewash stations and safety showers close to the workstation. |
| **Eye/face protection** | Wear tightly fitting safety goggles/face shield. |
| **Skin protection** | Wear suitable protective gloves (e.g. butyl rubber, nitrile rubber). |
| **Body protection** | Wear appropriate protective clothing to prevent skin contact. |
| **Respiratory protection** | Where ventilation is inadequate, wear a suitable respirator with organic vapor filter. |
| **Thermal hazards** | No specific thermal hazards under normal conditions of use. |

## SECTION 9: Physical and chemical properties

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| **Physical state** | Liquid |
| **Colour** | Colorless, clear |
| **Odour** | Fruity odour |
| **Melting point / freezing point** | -78 °C |

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| **Boiling point or initial boiling point and boiling range** | 124 - 126 °C |
| **Flammability** | Flammable liquid and vapor |
| **Lower and upper explosion limit / flammability limit** | Lower: 1.7 % (V); Upper: 7.6 % (V) |
| **Flash point** | 27 °C - closed cup |
| **Auto-ignition temperature** | 415 °C |
| **Decomposition temperature** | No data available |
| **pH** | 6.2 at 5.3 g/l at 20 °C |
| **Kinematic viscosity** | 0.83 mm2/s at 20 °C (ASTM D445) |
| **Solubility** | Water: 5.3 g/l at 20 °C; miscible with most organic solvents |
| **Partition coefficient n-octanol/water** | log Pow: 2.3 at 25 °C |
| **Vapour pressure** | 11.2 hPa at 20 °C |
| **Density and/or relative density** | 0.88 g/cm3 at 25 °C |
| **Relative vapour density** | 4.0 (Air = 1.0) |
| **Particle characteristics** | Not applicable (liquid) |

## SECTION 10: Stability and reactivity

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| **Reactivity** | Risk of explosion with alkali metals, alkali hydroxides and strong oxidizing agents |
| **Chemical stability** | Stable under recommended storage conditions. |
| **Possibility of hazardous reactions** | Forms explosive mixtures with air at elevated temperatures |
| **Conditions to avoid** | Heat, flames, sparks and other ignition sources |
| **Incompatible materials** | Strong oxidizing agents, strong acids, strong bases, alkali metals, rubber, |
| **Hazardous decomposition products** | Carbon oxides |

## SECTION 11: Toxicological information

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| **Acute toxicity - Oral / Inhalation / Dermal** | LD50 Oral - Rat - female - 10,760 mg/kg LC50 Inhalation - Rat - 4 h - > 21 mg/l (vapour) LD50 Dermal - Rabbit - 14,112 mg/kg |
| **Skin corrosion/irritation** | Skin - Rabbit: Mild skin irritation |
| **Serious eye damage/irritation** | Eyes - Rabbit: No eye irritation |

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| **Respiratory or skin sensitization** | Not classified (based on available data) |
| **Germ cell mutagenicity** | Ames test (Salmonella typhimurium): negative |
| **Carcinogenicity** | IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. |
| **Reproductive toxicity** | Not classified (based on available data) |
| **STOT - single exposure** | May cause drowsiness or dizziness |
| **STOT - repeated exposure** | Not classified (based on available data) |
| **Aspiration hazard** | Not classified (based on available data) |

## SECTION 12: Ecological information

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| **Toxicity to fish / daphnia / algae** | Toxicity to fish: LC50 - Pimephales promelas (fathead minnow) - 18 mg/l - 96 h Toxicity to daphnia: EC50 - Daphnia magna (Water flea) - 44 mg/l - 48 h Toxicity to algae: EC50 - Desmodesmus subspicatus (green algae) - 648 mg/l - 72 h |
| **Persistence and degradability** | Readily biodegradable. |
| **Bioaccumulative potential** | Low bioaccumulation potential (log Pow = 2.3). |
| **Mobility in soil** | Moderately mobile in soil. |
| **Other adverse effects** | None known |

## SECTION 13: Disposal considerations

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| **Product disposal methods** | Offer surplus and non-recyclable product to a licensed disposal company. Dispose of in accordance with local and national regulations. |
| **Contaminated packaging** | Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal. |

## SECTION 14: Transport information

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| **UN Number (ADR/RID, IMDG, IATA)** | UN 1123 |
| **UN Proper Shipping Name** | BUTYL ACETATES |
| **Transport hazard class(es)** | 3 |
| **Packing group** | III |
| **Environmental hazards (Marine** | No |

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| **pollutant)** | |
| **Special precautions for user** | Keep containers upright, closed and secured during transport. |

## SECTION 15: Regulatory information

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| **Safety, health and environmental regulations specific for the product** | EINECS: Listed (204-658-1) TSCA: Listed IECSC: Listed China Catalog of Hazardous Chemicals 2015: Listed |

## SECTION 16: Other information

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|---|---|
| **Full text of H-Statements** | H226 Flammable liquid and vapor H336 May cause drowsiness or dizziness H402 Harmful to aquatic life |
| **Revision date** | 2026-10-29 |
| **Version** | 1.0 |

**Abbreviations and acronyms:** CAS: Chemical Abstracts Service; EC: European Commission; EINECS: European Inventory of Existing Commercial Chemical Substances; ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road; RID: Regulation concerning the International Carriage of Dangerous Goods by Rail; IMDG: International Maritime Dangerous Goods; IATA: International Air Transport Association; TWA: Time Weighted Average; STEL: Short Term Exposure Limit; LD50: Lethal Dose 50%; LC50: Lethal Concentration 50%; EC50: Effective Concentration 50%; PBT: Persistent, Bioaccumulative and Toxic; vPvB: very Persistent and very Bioaccumulative; SDS: Safety Data Sheet.

**References:** ECHA - European Chemicals Agency, https://echa.europa.eu/; IPCS - International Chemical Safety Cards (ICSC), http://www.ilo.org/; HSDB - Hazardous Substances Data Bank; eChemPortal - OECD Global Portal to Information on Chemical Substances; ERG - Emergency Response Guidebook by U.S. DOT.

**Disclaimer:** The information in this SDS is only applicable to the specified product and is provided in good faith. It is based on the knowledge available to Richest Group Ltd. at the date of issue and is intended to describe the product for the purposes of health, safety and environmental requirements only. It does not constitute any guarantee of the properties of the product. Richest Group Ltd. shall not be held liable for any damage resulting from handling or from contact with the above product.