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## 1. PRODUCT IDENTIFICATION

**Name:** *n-Butyl Acetate*

**Synonyms:** *1-butyl acetate; acetic acid, n-butyl ester, 1-acetoxybutane*

**CAS#** 123-86-4

**Product Uses:** *solvent in automotive & furniture coatings, inks, thinners, adhesives; perfume & flavouring ingredient; food preservative*

**Supplier Identifier:** *Megaloid Laboratories Limited  
5515 North Service Road, Ste 306  
Burlington, Ontario, Canada  
L7L 6G4  
Phone: 905-337-7411 / Fax: 905-337-1686*

**EMERGENCY INFORMATION** Call CHEMTREC - (800) 424-9300

## 2. HAZARDS

<b>GHS Class</b> <i>(category)</i>	<b>Flammable</b> <i>(3)*</i>	<b>STOT</b> <i>(3)</i>	<p><b>Label Pictograms</b></p>
<b>Signal Words</b>	<b>WARNING</b>		
<b>Hazard Statements</b>	<i>Flammable liquid &amp; vapour (H226)</i>	<i>May cause dizziness or drowsiness (H336)</i>	

\* NOTE: *n-Butyl Acetate* is on the borderline between Category 2 & 3. See also Section 14.

### GHS Precautionary Statements for Labelling

<b>Prevention</b>	
<b>P210</b>	Keep away from heat, sparks, open flames and hot surfaces. No smoking.
<b>P233</b>	Keep container tightly closed.
<b>P240</b>	Ground or bond container and receiving equipment.
<b>P241</b>	Use explosion-proof electrical, ventilating and lighting equipment.
<b>P242</b>	Use only non-sparking tools.
<b>P243</b>	Take precautionary measures against static discharge.
<b>P261</b>	Avoid breathing vapours.

<b>P271</b>	Use only outdoors or in a well-ventilated area.
<b>P280</b>	Wear eye protection, protective gloves and clothing of butyl rubber
<b>Response</b>	
<b>P303, P361, P353</b>	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
<b>P304, P340</b>	IF INHALED: remove person to fresh air and keep comfortable for breathing.
<b>P312</b>	Call a POISON CENTRE or doctor if you feel unwell..
<b>P370, P370</b>	In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.
<b>Storage</b>	
<b>P403 + P233</b>	Store in a well-ventilated place. Keep container tightly closed.
<b>P403 + P235</b>	Store in a well-ventilated place. Keep cool.
<b>P405</b>	Store locked up.
<b>Disposal</b>	
<b>P501</b>	Dispose of contents and container in accordance with local, regional, national and international regulations.

### 3. COMPOSITION

Chemical Name:	CAS No.	%	Other Identifiers
<i>n</i> -Butyl Acetate	123-86-4	100	EC # 204-658-1

### 4. FIRST AID

#### Inhalation

*Remove from contaminated area promptly. CAUTION: Rescuer must not endanger himself! If breathing stops, administer artificial respiration and seek medical aid promptly.*

#### Skin Contact

*Wash with plenty of water. Remove contaminated clothing and do not reuse until thoroughly laundered.*

#### Eye Contact

*Wash eyes with plenty of water, holding eyelids open. Seek medical assistance if there is any irritation.*

#### Ingestion

*Give plenty of water to dilute product. Do not induce vomiting (NOTE below). Keep victim quiet. If vomiting occurs, lower victim's head below hips to prevent inhalation of vomited material. Seek medical help promptly.*

#### **First-aid Comments**

*Inadvertent inhalation of vomited material may seriously damage the lungs. The danger of this is greater than the risk of poisoning through absorption of this relatively low-toxicity substance. The stomach should only be emptied under medical supervision, and after the installation of an airway to protect the lungs.*

### 5. FIRE FIGHTING & FLAMMABILITY

#### Extinguishing Media

##### Suitable Extinguishing Media

*Foam, dry chemical, water fog, water spray only to cool & dilute, product floats on water - water jet spreads flames*

### **Unsuitable Extinguishing Media**

*None known.*

### **Combustion Products**

*Carbon monoxide, nitrogen oxides, acrid smoke, part oxidised hydrocarbon fragments.*

### **Special Protective Equipment and Precautions for Fire-fighters**

*Firefighters must wear SCBA. Fire-fighters may enter the area if positive pressure SCBA and full Bunker Gear is worn.*

### **Static Charge Accumulation**

*cannot accumulate a static charge on agitation or pumping*

## **6. ACCIDENTAL RELEASE MEASURES**

### **Serious Fire Potential:**

*blanket spill with foam as a precaution against accidental ignition. Take extreme care to avoid sparks – do not operate (turn on OR off) electrical appliances near spill, unless explosion proof.*

### **Personal Precautions, Protective Equipment, and Emergency Procedures**

*Evacuate the area immediately. Isolate the hazard area. Keep out unnecessary and unprotected personnel. Eliminate all ignition sources. Use grounded, explosion-proof equipment. Increase ventilation to area or move leaking container to a well-ventilated and secure area.*

### **Environmental Precautions**

*It is good practice to prevent releases into the environment. Do not allow into any sewer, on the ground or into any waterway. If the spill is inside a building, prevent product from entering drains, ventilation systems and confined areas.*

### **Methods and Materials for Containment and Cleaning Up**

*Leak Precaution: dyke to control spillage and prevent environmental contamination  
Handling Spill: Ventilate contaminated area; recover free liquid with suitable pumps; absorb residue on an inert sorbent, sweep & pick up using plastic or aluminium shovel, & store in closed containers for recycling or disposal.*

### **Other Information**

*Report spills to local health, safety and environmental authorities, as required.*

## **7. HANDLING & STORAGE**

### **Precautions for Safe Handling**

*Take care to avoid sparks – use non-sparking bronze or aluminum hand tools. All electrical & mechanical equipment (lighting, switchgear, forklift trucks, etc) used with or around this product must be explosion-proof.*

*Always ground or electrically bond the source container, receiving container & pump before transferring contents. Avoid splashing by ensuring that the product nozzle is below the surface in the receiving container. Empty containers may contain a flammable / explosive vapour. Always ensure that containers, whether empty or full, or part full, are tightly sealed unless in use. Avoid breathing product vapour. Avoid contact with skin and wash work clothes frequently.*

*Never cut, drill, weld or grind on or near this container. Avoid contact with skin & wash work clothes frequently. An eye bath must be available near the workplace.*

### **Conditions for Safe Storage**

*Store & use in a cool, dry environment, away from sources of ignition & oxidising agents.*

## 8. EXPOSURE CONTROL & PERSONAL PROTECTION

Ontario TWA 50ppm / 237mg/m<sup>3</sup>  
 AGGIH TLV 50ppm / 237mg/m<sup>3</sup>  
 OSHA PEL 150ppm / 710mg/m<sup>3</sup>

Ontario STEL 150ppm / 711.66mg/m<sup>3</sup>  
 ACGIH STEL 200ppm / 710mg/m<sup>3</sup>  
 OSHA STEL not listed

<b>Ventilation</b>	<i>mechanical ventilation may be required to control airborne titre to regulated limits</i>
<b>Hands</b>	<i>“Barrier”, “Silver Shield” gloves – other types may also protect; confirm suitability with supplier</i> <b>WARNING: Do NOT use rubber, nitrile, neoprene, or “Viton”!</b>
<b>Eyes</b>	<i>Safety glasses with side shields – always protect the eyes</i>
<b>Clothing</b>	<i>No special protective clothing required</i>

### Appropriate Engineering Controls

*Do not allow product to accumulate in the air in work or storage areas, or in confined spaces, ensure adequate ventilation. Use non-sparking ventilation systems, approved explosion-proof equipment and intrinsically safe electrical systems in areas where this product is used and stored. Control static electricity discharges which includes bonding of equipment to ground. Provide eyewash and safety shower if contact or splash hazard exists.*

## 9. PHYSICAL PROPERTIES

<b>Appearance</b>	<i>Clear colourless liquid.</i>
<b>Odour</b>	<i>banana-like odour</i>
<b>Odour threshold</b>	<i>0.3ppm – geometric mean; variable; also 7ppm &amp; 20ppm reported</i>
<b>pH</b>	<i>6.2</i>
<b>Melting Point/Freezing Point</b>	<i>-73.5°C / -100.3°F; melting point: -78°C / -108°F</i>
<b>Initial Boiling Point/Range</b>	<i>126°C / 259°F</i>
<b>Flash Point</b>	<i>27°C / 81°F (closed cup) Dow &amp; Eastman, also 30°C/86°F (closed cup), 22°C / 72°F (closed cup)</i>
<b>Evaporation Rate</b>	<i>1 (Butyl Acetate =1)</i>
<b>Flammability ( Solid, Gas)</b>	<i>Not Available</i>
<b>Upper/Lower Flammability or Explosive Limit</b>	<i>1.3% – 7.6%</i>
<b>Vapour Pressure</b>	<i>10mmHg / 1.33kPa (20°C / 68°F); 11.5mmHg / 1.53kPa (25°C / 77°F)</i>
<b>Vapour Density (air = 1)</b>	<i>4</i>
<b>Specific Gravity</b>	<i>0.881 g/cm<sup>3</sup> (20/20°C); 0.876 g/cm<sup>3</sup> (25/25°C)</i>
<b>Solubility</b>	<i>5.3 &amp; 8.4 grams/litre (25°C / 77°F)</i>
<b>Partition Coefficient, n-Octanol/Water (Log Kow)</b>	<i>1.78</i>

<b>Auto-ignition Temperature</b>	415°C / 779°F, 425°C / 797°F
<b>Conversion Factor</b>	1 ppm = 4.74 mg/m <sup>3</sup>
<b>Viscosity</b>	0.7centipoise (20°C / 68°F); 0.65centipoise (25°C / 77°F)
<b>Physical State</b>	Liquid
<b>Molecular Weight</b>	116 grams per mole
<b>Molecular Formula</b>	C6-H12-O2

## 10. REACTIVITY

**Dangerously Reactive** with strong oxidising agents; strong acids or strong alkalis may cause rapid decomposition releasing heat, risking fire and explosion.

**Also Reactive** with attacks many plastics – PVC, polystyrene, polyurethane & others also elastomers – nitrile, “Viton”, neoprene & others.

### Chemical Stability

stable; will not polymerize

### Possibility of Hazardous Reactions

butyl alcohol & acetic acid.

### Conditions to Avoid

Decomposes in presence of moisture – hydrolyses gradually.

### Mechanical Impact

not sensitive

## 11. TOXICITY

Acute Toxicity	
<b>LD<sub>50</sub> (oral)</b>	10,700, 12,700, 14,130 & 15140mg/kg (rat), 7100mg/kg (mouse), 4700mg/kg (guinea pig) 3200 & 7400mg/kg (rabbit)
<b>LD<sub>50</sub> (skin)</b>	>5000 & >17,600mg/kg (rabbit)
<b>LC<sub>50</sub> (inhalation)</b>	1265ppm (mouse), 1100, 4430, 4940, 6300, 6870 & 9310ppm (rat)

### Skin Corrosion/Irritation

not an irritant; prolonged exposure may cause irritation

### Serious Eye Damage/Irritation

slightly irritating to eyes; vapour severely irritating above 3000ppm – well above toxic limit

### STOT (Specific Target Organ Toxicity) - Single Exposure

#### Inhalation

200-300 ppm irritating; nausea, dizziness, drowsiness, intoxication may occur

#### Skin Absorption

slight; no toxic effects likely by this route

#### Ingestion

low toxicity; large amounts as for inhalation – not a route of industrial exposure

## STOT (Specific Target Organ Toxicity) - Repeated Exposure

*Prolonged exposure may cause drying & dermatitis*

### Respiratory and/or Skin Sensitization

*Not known to be a respiratory sensitizer*

### Carcinogenicity

*Not considered a carcinogen in humans or animals. IARC: Not specifically listed.*

*ACGIH®: Not specifically designated. NTP: Not specifically listed. OSHA: Not specifically listed.*

## Reproductive Toxicity

### Development of Offspring

*Mutagen - no known effect on humans or animals*

### Sexual Function and Fertility

*No known effect in humans or animals*

### Germ Cell Mutagenicity

*Not known to be a mutagen.*

## 12. ECOLOGICAL INFORMATION

<b>Bioaccumulation</b>	<i>Not a bioaccumulator.</i>
<b>Persistence and Degradability</b>	<b>Biodegradation -</b> <i>biodegrades readily &amp; rapidly in the presence of oxygen; &gt;60% in 20-days, 80% in 5 days also 83% &amp; 98% in 28 days</i>  <b>Abiotic Degradation -</b> <i>reacts with atmospheric hydroxyl radicals; estimated ½-life in air is 1.5 to 4 days</i>
<b>Mobility in soil, water</b>	<i>somewhat water soluble; moves moderately readily in soil &amp; water</i>
<b>Aquatic Toxicity</b>	
<b>LC50 (Fish, 96hr)</b>	<i>18mg/litre (Pimephales promelas), 100mg/litre (Lepomis macrochirus), 62mg/litre (Leuciscus idus), 185mg/litre (Menidia beryllina)</i>
<b>EC50 (Crustacea, 24hr)</b>	<i>150mg/litre (Artemia salina), 73 &amp; 205mg/litre (Daphnia magna)</i>
<b>EC50 (Algae, 72hrs)</b>	<i>648mg.litre (Scenedesmus subspicatus)</i>
<b>EC50 (Bacteria, 18hr)</b>	<i>959mg/litre (Pseudomonas putida)</i>

## 13. DISPOSAL

### Water Disposal

**Do not flush to sewer**, recycle solvent if possible, local regulations may permit disposal in sanitary landfill, may be incinerated in approved facility after mixing with a suitable flammable waste

### Containers

**Drums** should be reused. Recondition and pressure test by a licensed reconditioner prior to re-use.


**Pails** must be vented and thoroughly dried prior to crushing and recycling.

**IBCs** (intermediate bulk containers): polyethylene bottle must be pressure tested & recertified at 30 months. Replace at 60 months (5yrs).

**Steel containers** must be inspected, pressure tested & recertified every 5 years.

***Never cut, drill, weld or grind on or near this container, even if empty***

## 14. TRANSPORT CLASSIFICATION

Canada TDG	PIN	UN1123	
AND	Shipping Name	Butyl Acetate	
U.S.A. 49 CFR	Class & Packing Group	3, PG III*	

Marine Pollutant ERAP Required Reportable Quantity E R G No.	Not a Marine Pollutant NO 5000lbs / 2270kg 129	
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***Important Note: Shipping descriptions may vary based on mode of transport, quantities, package size, and/or origin and destination. Consult your company's Hazardous Materials/Dangerous Goods expert for information specific to your situation.***

***\* NOTE: n-Butyl Acetate is on the borderline between Packing Group II and Packing Group III. Accordingly, some ship it as Packing Group III while others use Packing Group II. See also Section 2 and Flash Point in Section 9.***

## 15. REGULATIONS

Canada DSL	On Inventory
U.S.A. TSCA	On Inventory
Europe EINECS	On Inventory

### Canadian Regulations

**CEPA - National Pollutant Release Inventory (NPRI)**  
Part 5.

### U.S.A. Regulations

**SARA 302/304:** This product contains no known chemicals regulated under SARA 302/304.

**SARA 311/312:** Based upon available information, this material is classified as the following health and/or physical hazards according to Section 311 & 312: Fire Hazard  
Acute Health Hazard

**SARA 313:** This product contains no known chemicals regulated under SARA 313.

### US State Regulations

**Chemicals associated with the product which are subject to the state right-to-know regulations are listed along with the applicable state(s):**

- Massachusetts - Listed
- Pennsylvania - Listed
- New Jersey - Listed
- New York - listed
- Rhode Island - Listed

## International Regulations

International Inventories listed on the chemical inventories of the following countries or qualifies for an exemption:

Australia (AICS)  
 China (IECSC)  
 Japan (ENCS)  
 Korea (KECI)  
 New Zealand (NZIoC)  
 Philippines (PICCS)  
 Taiwan (TCSI)

## 16. OTHER INFORMATION

<b>NFPA RATING</b>	<b>Health 2</b>	<b>Flammability 3</b>	<b>Instability 0</b>
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**Prepared for** Megaloid Laboratories Limited **by** Rob Cangiano  
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<b>Key to Abbreviations</b>	<p>ACGIH® = American Conference of Governmental Industrial Hygienists                  AIHA® = AIHA® Guideline Foundation                  HSDB® = Hazardous Substances Data Bank                  IARC = International Agency for Research on Cancer                  NFPA = National Fire Protection Association                  NIOSH = National Institute for Occupational Safety and Health                  NIOSH = National Institute for Occupational Safety and Health                  NTP = National Toxicology Program                  OSHA = US Occupational Safety and Health Administration                  RTECS® = Registry of Toxic Effects of Chemical Substances</p>
<b>References</b>	<p>CHEMINFO database. Canadian Centre for Occupational Health and Safety (CCOHS). HSDB® database. US National Library of Medicine. Available from Canadian Centre for Occupational Health and Safety (CCOHS). NIOSH Pocket Guide database. National Institute for Occupational Safety and Health. Available from Canadian Centre for Occupational Health and Safety (CCOHS). Registry of Toxic Effects of Chemical Substances (RTECS®) database. Dassault Systèmes/BIOVIA ("BIOVIA"). Available from Canadian Centre for Occupational Health and Safety (CCOHS).</p>
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