

Safety Data Sheet



久資化工股份有限公司
Chiu Tze Chemical Co., Ltd.

1. Product and Manufacturer Information

Product name : n-Butyl acetate	
Other names : --	
Product use : Industrial solvent	
Manufacturer or Supplier : Chiu Tze Chemical Co., Ltd.	
Address : No. 818, Baiyu S. Rd., Guanyin Dist., Taoyuan City 328, Taiwan (R.O.C.)	
Tel : 886-3-4735939	
Emergency Tel : 886-3-4735939	Fax : 886-3-4734269

2. Hazard Identification

Hazard Material Category : 1. Flammable liquid: Category 3 2. Serious eye damage/eye irritation Category 2A 3. Specific target organ toxicity – single exposure Category 3	
Label Sign :	 
Label Statements : Flammable liquid、Toxicity	
Sign : Warning	
Hazard Statements : 1. Flammable liquid and vapor 2. May cause drowsiness or dizziness	
Precautionary Statements : 1. Store in a well-ventilated place 2. Keep container tightly closed and cool. 3. Avoid breathing dust, fume, vapors and mist 4. Away from any source of ignition	
Others :	

3. Composition/ Information on Ingredients

Chemical Name : n-Butyl Acetate
Synonymous Name : n-Butyl Acetate, Acetic acid, n-Butyl ester, l-Butyl acetate, Butyl acetate and Butyl ethanoate.
CAS No. : 123-84-6
Percentage of Hazardous Ingredient : 100%

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4. First Aid Measures

The First Aid Measures for Different Exposure Routes :

- **Inhalation** : Remove the person from the source of exposure and rescuers are required to wear proper gears. If breathing is difficult, oxygen should be administered by qualified personnel. Seek for medical advice.
- **Skin Contact** : Flush the affected area with clean water and seek for medical advice
- **Eye Contact** : Flush the affected area with clean water and seek for medical advice
- **Ingestion** : Do not eat anything else, if may, drink some water and seek for medical help immediately

The Worst Symptoms : As the absorption is rapidly through lung and asthma-like symptoms may occur or further cause systemic effects, Transport the patient to a medical facility immediately

Note to First-aid Personnel : Wear Class C protection equipment

Note to Doctor : No specific antidote. Treatment of exposure should be focused on the control of symptoms of the patient

5. Firefighting Guide

Fire Extinguisher : Carbon Dioxide, Alcohol Resistant Foam, Chemical Arid Powder or Mist

Special occasions may occur during fire :

1. The smoke may contain the original material in addition to varying compositions of toxic or irritating combustion products.
2. The vapors are heavier than air and may travel a long distance and accumulated in low areas. Flashback may occur.

Firefighting Guidelines :

1. Keep people away then isolate fire and deny unnecessary entry
2. Remove the container away from the firing place, if possible
3. Do not use direct water stream which may spread fire and is not effective in extinguishing fire
4. Burning liquids may be moved by flushing with water to protect personnel and minimize property damage.
5. Avoid accumulation of water.

Special Equipment for Firefighters : Respirators, protective gloves and fire clothing; if possible, use chemical resistant firefighting clothing.

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6. Act of Leaking

Individual Precaution :

1. Isolate any irrelevant person from the leak until the leakage is cleaned
2. Eliminate all sources of ignition in vicinity of leak to avoid fire or explosion
3. Only trained people are allowed to clean up the leakage

Environmental Precaution :

1. Stop further leaking if possible.
2. Prevent the leakage from entering into soil and sewerage.

Cleaning Methods :

1. Use foam to smother or suppress.
2. Collect it suitable and properly labeled containers.
3. Contact emergency center for massive leakage.

7. Handling and Storage Methods

Handling :

1. Away from any source of ignition.
2. Avoid direct contact with eyes, skins and clothing and inhalation
3. Operation needs to be done in a well-ventilated place.
4. Smoking is extremely prohibited.
5. Containers, even those that have been emptied, can contain vapors; therefore, do not cut, drill, grind, weld or perform similar operations on or near empty containers

Storage :

1. Store away from direct sunlight and minimize sources of ignition such as static build up, heat, spark or flame.
2. All sorts of containers have to be tightly closed and labeled all the time.
3. Storages have to be away from any incompatible materials.
4. Examine the containers for leakage periodically.

8. Exposure Controls

Engineering Controls :

1. Use local exhaust ventilation or other engineering controls to maintain airborne levels below requirements
2. If there are no applicable exposure limit requirements, general ventilation should be sufficient for daily uses

Control Parameters

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TWA	STEL	CEILING	BEIs
150 ppm	187.5 ppm		
Individual protection measures : Respiratory protection : Respiratory protection should be worn when there is a potential to exceed the exposure limit requirements. If there are no applicable exposure limit requirements, wear respiratory protection when one experienced adverse effects such as irritation or discomfort Hand protection : Wear chemical protective gloves Eye protection : Use safety glasses with side shields Skin and Body protection : Wear clean, body covering clothing			
Hygiene measures : 1. After duty one should take off contaminated clothes, if any, clean thoroughly before next use or disposal. Laundry worker must be advised about the hazard 2. No food or smoking at workplace 3. Keep the workplace clean and neat			

9. Physical and Chemical Properties

Appearance : Colorless liquid	Odor : Fruit flavor
Odor threshold : : 0.063-7.4ppm (Detection) 、 0.038-12ppm (Sense)	Melting point : -77.9℃
pH : -	Boiling point : 126.3 °C
Flammability (solid, gas) : Not applicable to liquids-	Flash Point : 22℃ Test method : closed cup
Decomposition temp. : —	
Auto-ignition temp. : 425℃	Explosion limit : 1.7% ~ 7.6% (200℃)
Vapor pressure : 15 mmHg @25℃	Vapor density : 4 (air=1)
Density : 0.882 (Water=1)	Solubility : 7 g/L water@20℃
Log Kow : 1.79-2.06	Evaporation Rate : 25 (ether=100)

10. Stability and Reactivity

Reactivity : Stable under recommended storage conditions
Possibility of hazardous reactions : Avoid contact with reducing agents.
Conditions to avoid : Avoid static discharge and any kind of ignitions.
Incompatible materials : Strong Acids, strong bases and strong oxidizers

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Hazardous decomposition products : Decomposition products depend upon temperature, air supply and the presence of other materials. Decomposition products can include and are not limited to carbon dioxide.

11. Toxicological Information

Route of exposure : Skin, inhalation, ingestion, eyes

Symptoms : Irritation, headache, dizziness and drowsiness

Acute toxicity :

Skin : Prolonged and repeated contact may cause slight skin irritation with drying and flaking of the skin.

Inhalation : Brief exposure (minutes) is not likely to cause adverse effects; however, the risk will incur by higher density. Symptoms of excessive exposure may be anesthetic or narcotic effects such as drowsiness and dizziness.

Oral : Low toxicity if swallowed, adverse effects are likely to occur with large amount of swallow.

Eyes : May cause slight temporary eye irritation when exposed to less than 300 ppm and red eyes with more than 3,300 ppm.

Chronic Toxicity or Long Term Effects :

Drying and flaking skin may occur and lung damage or even chemical pneumonia.

12. Ecological Information

Ecotoxicity : LC50 (Fish) : 18mg/ L/ 96 Hours

EC50 (Aquatic Invertebrates) : —

Bio concentration factor (BCF) : 4 to 14

Persistence and degradability :

Biochemical oxygen demand : 0.15~0.5 LB/LB (5days)

The substance is moderate toxic to aquatic organisms and is biodegradable in the soil and water.

Half-life (air) : 144 hours

Half-life (Water surface) : 178-27156 hours

Half-life (Groundwater) : -

Half-life (Soil) :-

Bioaccumulative potential : Low

Mobility in soil : —

Other adverse effects : -

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13. Disposal Considerations

Waste treatment methods :

1. Incineration
2. Bury
3. Any disposal practice must be in compliance with local regulations and laws

14. Transport Information

UN number : 1123

UN shipping name : N-butyl acetate

Transport hazard class(es) : 3

Packing group : II

Environmental hazards : Not considered environmental hazardous

Special precautions : —

15. Regulatory Information

Applicable regulations :

1. Occupational safety and health act
2. Regulations for the Labeling and Hazard Communication of Hazardous Chemicals
3. Organic solvent poisoning prevention rules
4. Standards of Permissible Exposure Limits at Work Place
5. Road and traffic safety rules
6. Methods and Facilities Standards for the Storage, Clearance and Disposal of Industrial Waste
7. Public Hazardous Materials and Flammable Pressurized Gases Establishment Standards and Safety Control Regulations
8. Assessment and Classification of Hazardous Chemicals Regulation
9. Work Place Environment Monitoring Regulations.

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16. Other Information

References	1.CHEMINFO Database , CCINFO CD , 2005-2 2.RTECS Database , TOMES PLUS CD , Vol.63 , 2005 3.HSDB Database , TOMES PLUS CD , Vol.63 , 2005 4. ChemWatch Database , 2004-4
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