

# Safety Data Sheet

# 1. IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

**Butyl Acetate Product Name:** 

Other Names: n-Butyl Acetate, Butyl ethanoate

**Recommended Use:** Solvent for resin, lacquers, wax, printing ink, adhesives, plastics and polishes agent.

Raw material for used in the chemical industry such as paints, rubbers, plastic,

cosmetics, pharmaceuticals, and dehydrate agents.

Supplier: Global Chemie ASCC Limited

**Street Address:** 88/123 Moo 2 Bangpoo Industrial Estate (North), Phraek Sa Mai, Mueang

Samutprakan, Samutprakan Thailand 10280

+66 2324 6888 Telephone: Fax: +66 2324 6898-99

**Emergency phone:** +66 2324 6888 ext.320

#### 2. HAZARDS IDENTIFICATION

#### **Hazardous Nature**

This product is classified as hazardous under GHS criteria

## **Hazardous Classification**

Flammable liquids: Category 3

Specific target organ toxicity following single exposure: Category 3

#### **Hazardous Statement**

Highly Flammable liquid and vapour

# **GHS Pictograms**





# **Hazard Statements**

H226: Flammable liquid and vapour.

H336: May cause drowsiness or dizziness.

# **Precautionary Statements**

P210: Keep away from heat/sparks/open flames/hot surfaces and non-smoking.

P233: Keep container tightly closed.

P240: Ground/Bond container and receiving equipment.

P241: Use explosion-proof electrical/ventilating/lighting/equipment.

P242: Use only non-sparking tools.

P243: Take precautionary measure against static discharge.

P261: Avoid breathe dust/fume/gas/mist/vapours/spray.

P271: Use only outdoors or in a well-ventilated area.

P280: Wear protective gloves/eye protection/face protection.

# **Response Statements**

# If on skin

P303+P361+P353: Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

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P370+P378: In case of fire: Use manufacturer/supplier or the competent authority to specify appropriate media for extinction.

#### If inhaled

P304+P340: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

#### **Storage Statements**

P403+P233: Store in a well-ventilated place. Keep container tightly closed.

P235: Keep cool. P405: Store locked up.

# **Disposal Statements**

P501: Disposal should be in accordance with applicable regional, national, and local laws and regulations. Local regulations may be more stringent than regional or national requirements and must be complied with.

#### Signal Word Warning

# 3. COMPOSITION: Information on Ingredients

Chemical Ingredient	CAS No.	UN No.	Proportion (%v/v)
n-Butyl Acetate	123-86-4	1123	>99.00

Molecular Formula: CH<sub>3</sub>COO(CH<sub>2</sub>)<sub>3</sub>CH<sub>3</sub> Molecular Weight: 116.16 g/mol

## 4. FIRST AID MEASURES

For advice, contact Ramathibodi Poison Center (Phone: 1367) or a doctor.

#### Ingestion

Do not induce vomiting; Do not eat milk and castor oil, transport to nearest medical facility for additional treatment.

## **Eye Contact**

Immediately flush eyes with large amounts of water for at least 10 minutes while holding eyelids open. Transport to the nearest medical facility for additional treatment.

#### **Skin Contact**

Remove contaminated clothing. Immediately flush skin with large amounts of water for at least 15 minutes, and follow by washing with soap and water if available.

## **Inhalation**

Remove to fresh air. If the victim has difficulty breathing or tightness of the chest, give 100% oxygen with rescue breathing or CPR as required and transport to the nearest medical facility.

#### **First Aid facilities**

Provide eye baths and safety showers.

# **Medical Attention**

Treat according to symptoms. Avoid gastric lavage: risk of aspiration of product to the lungs with the potential to cause chemical pneumonitis.

## 5. FIRE FIGHTING MEASURES

Shut off product that may 'fuel' a fire if safe to do so. Allow trained personnel to attend a fire in progress, providing firefighters with this Safety Data Sheet. Prevent extinguishing media from escaping to drains and waterways.

# Suitable extinguishing media

Water spray or fog (do not use a solid water stream as it may scatter or spread fire), Dry chemical powder, Alcohol-resistant foam, and Carbon dioxide.

#### **Hazards from combustion products**

May produce toxic fumes of carbon monoxide, carbon dioxide if burning.

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#### Precautions for fire fighters and special protective equipment

Wear full protective clothing and self-contained breathing apparatus.

# **Special protective action for fire-fighters**

Keep adjacent containers cool by spraying with water.

#### 6. ACCIDENTAL RELEASE MEASURES

# **Emergency Procedures**

Prevent fluid from escaping to drains and waterways. Contain leaking packaging in a containment drum. Prevent vapours from building up in confined areas. Ensure that drain valves are closed at all times. Clean up and report spills immediately.

# Methods and materials for containment

## **Protective Measures**

- Observe all relevant local and international regulations.
- Avoid contact with spilled or released material. Immediately remove all contaminated clothing. For guidance on selection of personal protective equipment see chapter 8 this Material Safety Data Sheet. Shut off leaks, if possible without personal risks. Remove all possible sources of ignition in the surrounding area. Prevent from spreading or entering drains, ditches or rivers by using sand, earth, or other appropriate barriers.
- Take precautionary measures against static discharge. Ensure electrical continuity by bonding and grounding (earthing) all equipment.

# **Clean-Up Methods**

 ◆ Small spillage (< 200 LT)

Transfer by mechanical means to a labelled, sealable container for product recovery or safe disposal. Allow residues to evaporate or soak up with an appropriate absorbent material and dispose of safely. Remove contaminated soil and dispose of safely.

 large spillage (> 200 LT)

: Transfer by mechanical means such as vacuum truck to a salvage tank for recovery or safe disposal. Do not flush away residues with water. Retain as contaminated waste. Allow residues to evaporate or soak up with an appropriate absorbent material and dispose of safely. Remove contaminated soil and dispose of safely.

# **Other Information**

Notify authorities if any exposure to the general public or the environment occurs or is likely to occur. Vapours may form explosive mixtures with air. Vapours may travel to source of ignition and flash back.

# 7. HANDLING AND STORAGE

## **Precautions for safe handling**

Avoid contact with skin, eyes, and clothing. Do not breathe vapours. Extinguish any naked flame. Remove ignition sources. Avoid sparks. Do not smoke. The vapour is heavier than air spreads along the ground and distant ignition is possible. Ensure electrical continuity by bonding and grounding (earthing) all equipment. Do not use compressed air for filling, discharging, or handling operations. Handle and open container with care in well-ventilated area. Do not empty into drains.

## **Conditions for safe storage**

Must be stored in a diked (bunded) well-ventilated area, away from sunlight, ignition sources and other sources of heat. Bulk storage tanks should be diked (bunded). Keep away from aerosols, flammables, oxidizing agents, corrosives. Storage Temperature: Ambient.

# **Incompatible materials**

Nitrate agents; strong oxidizing agents, strong acids and strong alkalis.

#### **Recommended Materials**

For containers, or container linings use mild steel, stainless steel.

#### **Product Transfer**

Keep containers closed when not in use. Do not use compressed air for filling, discharging, or handling operations. If positive displacement pumps are used, these must be fitted with a non-integral pressure relief valve. Ensure electrical continuity by bonding and grounding (earthing) all equipment.

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#### **Additional Advice**

Containers even those that have been emptied, can contain explosive vapours. Do not cut, drill, grind, weld or perform similar operations on or near containers.

# 8. EXPOSURE CONTROLS: PERSONAL PROTECTION

## **National Exposure Standards**

**Occupational Exposure Limits** 

TLV-TWA = 150 ppm (710 mg/m3) 8 Hours.

TLV-STEL = 200 ppm (950 mg/m3) 15 mins.

# **Engineering Controls: Ventilation**

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapours below their respective threshold limit value.

## **Personal Protective Equipment**

# **Respiratory Protection:**

Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate.

**Eye Protection:** Chemical splash goggles (chemical monologues).

Skin/ Body Protection: Use protective clothing which is chemical resistant to this material. Safety shoes and boots should also be chemical resistant.

Hand Protection: Butyl rubber gloves, Nature rubber gloves, Neoprene rubber gloves, Nitrile rubber gloves.

## PHYSICAL AND CHEMICAL PROPERTIES

Property	Unit of Measurement	Typical Value	
Appearance	-	Colorless Liqiud	
Odour	-	Specific odor	
рН	-	No data available	
Boiling point	°C	126	
Melting point	°C	-77	
Flash point	°C	25 (Closed cup)	
Autoignition Temperature	°C	425	
Decomposition Temperature	°C	No data available	
Lower/Upper Flammability Limits	%V	1.71 – 7.6	
Density @ 20°C	g/cm³	0.880-0.883	
Specific Gravity @ 20°C	-	0.882-0.885	
Viscosity @ 20°C	mPa∙s	No data available	
Vapor pressure	kPa	1.13	
Vapor density	kPa (Air = 1)	4	
Evaporation Rate	(n-Butyl acetate = 1)	1	
Water Solubility	% w/w	0.7	
Solubility in other solvents Partition coefficient	(n-octanol/water)	No data available	

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Property	Unit of Measurement	Typical Value
Coefficient of Thermal Expansion	per Deg °C	No data available

The values listed are indicative of this product's physical and chemical properties. For a full product specification, please consult the Product Data Sheet.

## 10. STABILITY AND REACTIVITY

#### **Chemical Stability**

Stable under normal conditions.

#### **Conditions to avoid**

Heat, flame, spark and other ignition sources.

## **Hazardous decomposition products**

Thermal decomposition is highly dependent on conditions. Carbon monoxide, carbon dioxide and other organic compounds will be evolved when this material undergoes combustion or thermal or oxidative degradation. May form explosive peroxides.

#### **Hazardous reactions**

None known.

## **Hazardous Polymerisation**

No.

#### **Materials to Avoid**

Nitrate agents; strong oxidizing agents, strong acids and strong alkalis.

#### **Chemical Reactivity**

Stable under normal conditions.

# 11. TOXICOLOGICAL INFORMATION

#### **Acute Toxicity**

LD<sub>50</sub> Acute oral toxicity : 14,000 mg/kg (rat)
 LC<sub>50</sub> Acute Inhalation Toxicity : >6,000 ppm/4 hours (rat)

# Eye Contact

Irritating to skin. May be harmful if absorbed through the skin.

#### Skin Contact

Inhalation of vapours or mists may cause irritation to the respiratory system.

#### **Inhalation**

Inhalation of vapours or mists may cause irritation to the respiratory system.

#### Carcinogenicity

No data available.

# 12. ECOLOGICAL INFORMATION

## **Ecotoxicity**

#### **Aquatic Toxicity**

◆ Fish : Low toxicity : LC<sub>50</sub> > 100 mg/l
 ◆ Daphnia : Low toxicity : EC<sub>50</sub> > 100 mg/l/24 h.

#### Persistence/ degradability

Readily biodegradable.

#### Mobility

Slightly dissolves in water. If product enters soil, it will highly mobile and may contaminate groundwater.

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#### **Bioaccumulation**

Not expected to bioaccumulate significantly.

## 13. DISPOSAL CONSIDERATIONS

#### **Disposal Methods**

## **Material Disposal**

Recover or recycle if possible. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste classifications and disposal methods in compliance with applicable regulations.

#### **Container Disposal**

Drain container thoroughly. After draining, vent in a safe place away from sparks and fire. Refer to Section 7 before handling the product or containers. Residues may cause an explosion hazard. Do not puncture, cut or weld unclenaed drums. Send to drum recoverer or metal reclaimer.

# **Local Legislation**

Disposal should be in accordance with applicable regional, national, and local laws and regulations. Local regulations may be more stringent than regional or national requirements and must be complied with.

## 14. TRANSPORT INFORMATION

Road and Rail Transport		Marine Transport		Air Transport	
UN. Number	1123	UN. Number	1123	UN. Number	1123
Class/Item	3	Class/Item	3	Class/Item	3
Hazard Symbol	Flammable Liquid	Hazard Symbol	Flammable Liquid	Hazard Symbol	Flammable Liquid
Proper Shipping Name	Butyl Acetate	Proper Shipping Name	Butyl Acetate	Proper Shipping Name	Butyl Acetate
Packing Group	II	Packing Group	II	Packing Group	11
		Marine Pollutant	No		

## **Dangerous Goods Segregation**

This product is classed as Dangerous Goods Class 3, packing group II. Please consult the Australian Dangerous Goods Code for Transport by Road and Rail for information.

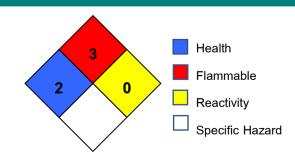
# 15. REGULATORY INFORMATION

EC Label Name: **Butyl Acetate** EC Classification: Flammable. **EINECS (EC):** 204-658-1 EC Annex I Number: 607-025-00-1

MITI (Japan): 2-731

#### 16. OTHER INFORMATION

National Fire Protection Association (USA)



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# **Safety Data Sheet**

MSDS Distribution The information contained herein is based on our

current knowledge of the underlying data and is intended to describe the product for the purpose of health, safety and environmental requirements only. No warranty of guarantee is expressed or implied regarding the accuracy of these data or the results to

be obtained from the use of the product.

Prepared By : Quality Control Department / Global Chemie ASCC Limited

#### **Abbreviations:**

AICS: Australian Inventory of Chemical Substances

CAS Number: Chemical Abstracts Number

IARC: International Agency for Research on Cancer

N/A: not available

NOHSC: National Occupational Health and Safety

Council GHS: Global Harmonized System

#### **References:**

- Supplier Material Safety Data Sheets
- <a href="http://chem.sis.nlm.nih.gov/chemidplus">http://chem.sis.nlm.nih.gov/chemidplus</a> (October 18)
- <a href="http://hsis.ascc.gov.au/SearchHS.aspx">http://hsis.ascc.gov.au/SearchHS.aspx</a> (October 18)
- Ecotoxicology data: <a href="http://cfpub.epa.gov/ecotox/quick query.htm">http://cfpub.epa.gov/ecotox/quick query.htm</a> (October 18)
- Sax's Dangerous Properties of Industrial Materials, Richard J. Lewis Snr., pub. Canada (2000)

The information sourced for the preparation of this document was correct and complete at the time of writing to the best of the writer's knowledge. The document represents the commitment to the company's responsibilities surrounding the supply of this product, undertaken in good faith. This document should be taken as a safety guide for the product and its recommended uses but is in no way an absolute authority. Please consult the relevant legislation and regulations governing the use and storage of this type of product. No warranty and guarantee are expressed or implied regarding the accuracy of these data or the results to be obtained from the use of the product for further information, please contact Global Chemie ASCC Limited.

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