



SAFETY DATA SHEET

According to JIS Z 7253:2019 Revision date 08-May-2023 Revision Number 2.05

Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	Butyl Acetate
Product Code	021-06115
Manufacturer	FUJIFILM Wako Pure Chemical Corporation 1-2 Doshomachi 3-Chome
	Chuo-ku, Osaka 540-8605, Japan Phone: +81-6-6203-3741 Fax: +81-6-6203-5964
Supplier	FUJIFILM Wako Pure Chemical Corporation 1-2 Doshomachi 3-Chome, Chuo-ku, Osaka 540-8605, Japan Phone: +81-6-6203-3741 Fax: +81-6-6203-2029
Emergency telephone number Recommended uses Restrictions on use	+81-6-6203-3741 / +81-3-3270-8571 For research use only Seek expert judgment when using for purposes other than those recommended.

Section 2: HAZARDS IDENTIFICATION

GHS classification <u>Classification of the substance or mixture</u> Flammable liquids Serious eye damage/eye irritation Specific target organ toxicity (single exposure) Category 3 Respiratory irritation, Narcotic effects Acute aquatic toxicity

Category 2 Category 2B Category 3

Category 3

Pictograms



Hazard statements

- H225 Highly flammable liquid and vapor
 - H320 Causes eye irritation
 - H335 May cause respiratory irritation
 - H336 May cause drowsiness or dizziness
- H402 Harmful to aquatic life

Precautionary statements-(Prevention)

- · Wash face, hands and any exposed skin thoroughly after handling
- Avoid breathing dust/fume/gas/mist/vapors/spray
- · Use only outdoors or in a well-ventilated area
- Avoid release to the environment
- · Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking
- Keep container tightly closed
- · Ground/bond container and receiving equipment

- Use explosion-proof electrical/ ventilating / lighting / equipment
- · Use only non-sparking tools
- Take precautionary measures against static discharge
- · Wear protective gloves/protective clothing/eye protection/face protection
- Keep cool

Precautionary statements-(Response)

• IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

- If eye irritation persists: Get medical advice/attention
- IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
- Call a POISON CENTER or doctor/physician if you feel unwell
- In case of fire: Use CO2, dry chemical, or foam for extinction

Precautionary statements-(Storage)

Store in a well-ventilated place. Keep container tightly closed

· Store locked up

Precautionary statements-(Disposal)

• Dispose of contents/container to an approved waste disposal plant

Others

Other hazards

Not available

Substance

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

Single Substance or Mixture

Formula

CH3COOCH2CH2CH2CH3

	Chemical Name	Weight-%	Molecular weight	ENCS	ISHL No.	CAS RN
	n-Butyl Acetate	99.5	116.16	(2)-731	2-(6)-226	123-86-4
Ī	Note on ISHL No.: * in the table means announced chemical substances.					

Impurities and/or Additives: Not applicable

Section 4: FIRST AID MEASURES

Inhalation

Remove to fresh air. If symptoms persist, call a physician.

Skin contact

Wash off immediately with soap and plenty of water. If symptoms persist, call a physician.

Eye contact

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediate medical attention is required.

Ingestion

Rinse mouth. Never give anything by mouth to an unconscious person. Call a physician or poison control center immediately. Do not induce vomiting without medical advice.

Protection of first-aiders

Use personal protective equipment as required.

Section 5: FIRE FIGHTING MEASURES

Suitable extinguishing media

Carbon dioxide (CO2), Foam, Extinguishing powder, Sand

Unsuitable extinguishing media

No information available

Specific hazards arising from the chemical product

Thermal decomposition can lead to release of irritating and toxic gases and vapors. Vapors may form explosive mixtures with air

Special extinguishing method No information available

Special protective actions for

fire-fighters

Use personal protective equipment as required. Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

Section 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

For indoor, provide adequate ventilation process until the end of working. Deny unnecessary entry other than the people involved by, for example, using a rope. While working, wear appropriate protective equipments to avoid adhering it on skin, or inhaling the gas. Work from windward, and retract the people downwind.

Environmental precautions

To be careful not discharged to the environment without being properly handled waste water contaminated.

Methods and materials for contaminent and methods and materials for cleaning up

Absorb dry sand, earth, sawdust and the waste. Collect empty container that can be sealed.

Recoverly, neutralization

No information available

Secondary disaster prevention measures

Clean contaminated objects and areas thoroughly observing environmental regulations.

Section 7: HANDLING AND STORAGE

Handling

Technical measures

Highly flammable. Avoid contact with high temperature objects, spark, and strong oxidizing agents. Use with local exhaust ventilation.

Precautions

Do not rough handling containers, such as upsetting, falling, giving a shock, and dragging Prevent leakage, overflow, and scattering. Not to generate steam and dust in vain. Seal the container after use. After handling, wash hands and face, and then gargle In places other than those specified, should not be smoking or eating and drinking Should not be brought contaminated protective equipment and gloves to rest stops Deny unnecessary entry of non-emergency personnel to the handling area

Safety handling precautions

Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). Avoid contact with skin, eyes or clothing. Use personal protective equipment as required.

Storage

Safe storage conditions	
Storage conditions	Keep container protect from light, store
-	in well-ventilated place at room temperature (preferably cool). Keep container tightly closed.
Safe packaging material	Glass
Incompatible substances	Strong oxidizing agents

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls

In case of indoor workplace, seal the source or use a local exhaust system. Provide the safety shower facility, and handand eye-wash facility. And display their position clearly.

Exposure I	imits
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Chemical Name	JSOH (Japan)	ISHL (Japan)	ACGIH
n-Butyl Acetate	TWA: 100 ppm OEL	ISHL/ACL: 150 ppm	STEL: 150 ppm
123-86-4	TWA: 475 mg/m ³ OEL		TWA: 50 ppm
	ISHL/ACL: 150 ppm		

Personal protective equipment

Respiratory protection Hand protection Eye protection Skin and body protection General hygiene considerations gas mask for organic gas (JIS T 8152) chemical protective gloves (JIS T 8116) protective eyeglasses or chemical safety goggles Long-sleeved work clothes

Handle in accordance with good industrial hygiene and safety practice.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Form Color Turbidity Appearance Odor Melting point/freezing point Boiling point, initial boiling point and boiling range Flammability Evaporation rate: Flammability (solid, gas): Upper/lower flammability or explosive limits Upper: Lower: Flash point Auto-ignition temperature: **Decomposition temperature:** pН Viscosity (coefficient of viscosity) Dynamic viscosity Solubilities n-Octanol/water partition coefficient:(log Pow) Vapour pressure Specific Gravity / Relative density Vapour density **Particle characteristics**

colorless clear liquid characteristic odor -106.2 °C 126 °C Highly flammable liquid and vapor no data available no data available 7.6 % 1.7 % 22 °C 370 °C no data available no data available no data available no data available Ethanol : Very soluble. water : slightly soluble . no data available 20 hPa 0.88 g/mL 4.03 (air = 1) no data available

Section 10: STABILITY AND REACTIVITY

Stability

 Reactivity
 no data available

 Chemical stability
 May be altered by light.

 Hazardous reactions
 None under normal processing

 Conditions to avoid
 Extremes of temperature and direct sunlight, Heat, flames and sparks, static electricity, spark

Incompatible materials Strong oxidizing agents

Hazardous decomposition products

Carbon monooxide (CO), Carbon dioxide (CO2)

Section 11: TOXICOLOGICAL INFORMATION

Acute toxicity

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
n-Butyl Acetate	> 3,200 - 14,130 mg/kg (Rat)	> 5,000 mg/kg (Rabbit)	N/A
Chemical Name	Acute toxicity -oral- source	Acute toxicity -dermal- source	Acute toxicity -inhalation gas-
	information	information	source information
n-Butvl Acetate	Based on the NITE GHS	Based on the NITE GHS	Based on the NITE GHS

	classification results.	classification results.	classification results.
Chemical Name	Acute toxicity -inhalation vapor- source information	Acute toxicity -inhalation dust- source information	source information
n-Butyl Acetate	Based on the NITE GHS Classification results.	Based on the NITE GHS classification results.	Based on the NITE GHS Classification results.
Skin irritation/corrosion			
Chemi	cal Name	Skin corrosion/irritat	ion source information
n-Buty	/I Acetate	Based on the NITE GHS classif	ication results.
Serious eye damage/ irritation			
	cal Name	Serious eye damage/irri	itation source information
n-Buty	/I Acetate	Based on the NITE GHS classif	ication results.
Respiratory or skin sensitization	on		
Chemi	cal Name	Respiratory or Skin sensi	itization source information
n-Butyl Acetate		Based on the NITE GHS classification results.	
Reproductive cell mutagenicity	/		
Chemical Name		germ cell mutagenc	ity source information
n-Buty	/I Acetate	Based on the NITE GHS classif	ication results.
Carcinogenicity			
Chemi	cal Name	Carcinogenicity	source information
n-Buty	/I Acetate	Based on the NITE GHS classif	ication results.
Reproductive toxicity			
Chemi	cal Name	Reproductive toxici	ty source information
n-Butyl Acetate		Based on the NITE GHS classification results.	
STOT-single exposure			
-	cal Name		re-source information
	/I Acetate	Based on the NITE GHS classif	ication results.
STOT-repeated exposure			
	cal Name	STOT -repeated expos	sure- source information
n-Buty	/I Acetate	Based on the NITE GHS classif	ication results.
Aspiration hazard			
	cal Name	A 1 41 11	source information

Section 12: ECOLOGICAL INFORMATION

Based on the NITE GHS classification results.

Ecotoxicity

Chemical Name	Algae/aquatic plants	Fish	Crustacea
n-Butyl Acetate	N/A	LC50: Fathead minnow 18 mg/L 96 h	EC50:Daphnia magna 72.8 mg/L 24 h

Other data

Chemical Name	Short-term (acute) hazardous to the aquatic environment source information	Long-term (chronic) hazardous to the aquatic environment source information
n-Butyl Acetate	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.

Persistence and degradability	No information available
Bioaccumulative potential	No information available
Mobility in soil	No information available
Hazard to the ozone layer	No information available

n-Butyl Acetate

Section 13: DISPOSAL CONSIDERATIONS

Waste from residues

Disposal should be in accordance with applicable regional, national and local laws and regulations. **Contaminated container and contaminated packaging** Disposal should be in accordance with applicable regional, national and local laws and regulations.

Section 14: TRANSPORT INFORMATION

ADR/RID UN number Proper shipping name: UN classfication Subsidiary hazard class Packing group Marine pollutant	UN1123 Butyl acetates 3 II Not applicable
IMDG	
UN number	UN1123
Proper shipping name:	Butyl acetates
UN classfication	3
Subsidiary hazard class	
Packing group	II
Marine pollutant (Sea)	Not applicable
Transport in bulk according to	No information available
Annex II of MARPOL 73/78 and the IBC Code	
UN number	UN1123
Proper shipping name:	Butyl acetates
UN classfication	3
Subsidiary hazard class	
Packing group	II
Environmentally Hazardous	Not applicable
Substance	

Section 15: REGULATORY INFORMATION

International Inventories	
EINECS/ELINCS	Listed
TSCA	Listed
Japanese regulations	
Fire Service Act	Category IV, Class II petroleums, dangerous grade 3
Poisonous and Deleterious	Not applicable
Substances Control Law	t Lawsful Cubatanaca Whaca Names Are to be Indicated on the Label (Low Art 57
Industrial Safety and Health Ac	tHarmful Substances Whose Names Are to be Indicated on the Label (Law Art.57, Para.1, Enforcement Order Art.18)
	Notifiable Substances (Law Art.57-2, Enforcement Oder Art.18-2 Attached Table No.9)No.181
	Class 2 Organic Solvents (Enforcement Order Attached Table No.6-2, Ordinance on Prevention of Organic Solvent Poisoning Art.1, Para.1, Item 5)
	Dangerous Substances - Flammable Substance (Enforcement Order Attached Table 1 Item 4)
	Working Environment Evaluation Standards, Administrative Control Levels (Law Art.65-2, Para.1)
Regulations for the carriage and storage of dangerous	Flammable Liquids (Ordinance Art.3, Ministry of Transportation Ordinance Regarding Transport by Ship and Storage, Attached Table 1)
goods in ship	
Civil Aeronautics Law	Flammable Liquids (Ordinance Art. 194, MITL Nortification for Air Transportation of
	Explosives etc., Attached Table 1)
Marine Pollution Prevention	Enforcement ordinance Appendix No. 1 Noxious liquid substance Category Y
Law Dallatent Dalages and Tanagée	Nat avvilagela
Pollutant Release and Transfer Register Law	Not applicable

(2023.4.1-) Export Trade Control Order

Not applicable

Chemical Name	Poisonous and Deleterious Substances Control Law	Industrial Safety and Health Act Substances (Law Art.57-2) (~2024.3.31)	Pollutant Release and Transfer Register Law (2023.4.1-)
n-Butyl Acetate 123-86-4(99.5)	-	Applicable	-

Section 16: OTHER INFORMATION

IATA dangerous Goods Regulations RTECS:Registry of Toxic Effects of Chemical Substances Japan Industrial Safety and Health Association GHS Model SDS Dictionary of Synthetic Oraganic Chemistry , SSOCJ, Koudansha Scientific Co.Ltd. Chemical Dictionary, Kyouritsu Publishing Co., Ltd. etc	rces for data etc.	RTECS:Registry of Toxic Effects of Chemical Substances Japan Industrial Safety and Health Association GHS Model SDS Dictionary of Synthetic Oraganic Chemistry, SSOCJ, Koudansha Scientific Co.Ltd. Chemical Dictionary, Kyouritsu Publishing Co., Ltd.
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Disclaimer

This SDS is according to JIS Z 7253: 2019. The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

GHS Classification is according to JIS Z7252(2019). *JIS: Japanese Industrial Standards

End of Safety Data Sheet