

SCC

Sipchem Chemicals Company

Safety Data Sheet

According to Regulation (EC) No. 1272/2008, Regulation (EC) 1907/2006

1. Identification of the substance/mixture and of the responsible company

1.1. Product Identifier: Butyl Acetate (C₆H₁₂O₂)

BUTYL ACETATE; BUTYL ETHANOATE; 1-BUTYL ACETATE; ACETIC ACID N-BUTYL ESTER; ACETIC ACID, BUTYL ESTER; 1-ACETOXYBUTANE; UN 1123; C₆H₁₂O₂

1.2. Relevant identified uses of the substance or mixture and uses advised against:

Identified uses: Industrial solvent, solvent for coatings, films, perfumes and synthetic flavoring agents, extraction solvent for various products and laboratory procedures.

1.3. Details of the supplier of the safety data sheet:

Sipchem Chemicals Company (SCC)
PO Box 12021
Post Coe 31961
Jubail Industrial City
Kingdom of Saudi Arabia

Website: www.sipchem.com/en/affiliates.htm

1.4. Emergency telephone number: 00966-359 9985 (24 hours)

2. Hazards Identification

Butyl Acetate CAS 123-86-4 Purity: >99.0%
 Trace Impurities: Butanol

2.1. Classification of the substance or mixture:

Classification of Labeling in accordance with the CLP Regulations:

Index No	International Chemical Identification	EC No	CAS No	Classification		Labeling			Specific Conc. Limits, M-factors	Notes
				Hazard Class and Category Code(s)	Hazard statement Code(s)	Pictogram Signal Word Code(s)	Hazard Statement Code(s)	Suppl. Hazard statement Code(s)		
607-025-00-1	Butyl Acetate	204-658-1	123-86-4	Flam. Liq. 3 STOT SE 3	R:10-66-67	GHS02 GHS07	H225 H319 H336	#EUH066	100	

Classification according to Regulation 1272/2008/EC (CLP)

Basis for Classification This substance is classified based on Directive 1272/2008/EC and its amendments (CLP Regulation, GHS)

BUTYL ACETATE (123-86-4)

SAFETY DATA SHEET according to Regulation (EC) No. 1272/2008, Regulation (EC) No.1907/2006

Butyl Acetate, rev 1 01/2013

Symbol(s):

Signal Word: Warning

Hazard(s):

H226: Flammable liquid and vapour

H336: May cause drowsiness or dizziness

Prevention:

P233: Keep container tightly closed.

P210: Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P240: Ground/Bond container and receiving equipment.

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

P242: Use only non-sparking tools.

P243: Take precautionary measures against static discharge.

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

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

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

P264: Wash hands thoroughly after handling.

Response:

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

P303+P361+P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

P312: Call a POISON CENTER or doctor/physician if you feel unwell.

P370+P378: In case of fire: Use ... for extinction.

Storage:

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

P403+P235: Store in a well-ventilated place. Keep cool.

P405: Store locked up.

Disposal:

P501: Dispose of contents/container to licensed landfill after thoroughly cleaning.

Supplemental:

EUH066: Repeated exposure may cause skin dryness or cracking.

SAFETY DATA SHEET

Emergency overview: WARNING. FLAMMABLE. Vapors may cause drowsiness and dizziness. Repeated exposure may cause skin dryness or cracking. May cause central nervous system effects. May cause skin and respiratory tract irritation. May be harmful by inhalation, in contact with skin and if swallowed. May cause eye irritation Ethyl acetate is a colorless liquid with a sweet odor.

Potential chronic health effects:

CARCINOGENIC EFFECTS: No reported carcinogenic effects.

MUTAGENIC EFFECTS: No assigned mutagenic effect classification.

REPRODUCTION TOXICITY: No mammalian developmental/reproductive effects reported.

2.2. Label: See table above.

2.3. Other hazards: None known.

3. Composition/information on ingredients

Formula	CH ₃ COOC ₄ H ₉
CAS-No.	123-86-4
Index-No.	607-025-00-1
EC-No.	200-500-4
Mol Wt.	116.16 g/mol

4. First Aid Measures

4.1. Description of first aid measures

Eye Contact: Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately.

Skin Contact: In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention immediately.

Inhalation: Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.

Ingestion: Wash out mouth and water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.

4.2. Most important symptoms and effects, both acute and delayed:

Irritant effects, drowsiness, dizziness, narcosis, nausea, headache, vision impairment. Drying and defatting of skin.

4.3. Indication of immediate medical attention and special treatment needed:

No additional information available.

5. Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media: Use dry chemical, CO₂, water spray (fog) or foam

Unsuitable extinguishing media: None noted.

5.2. Special hazards arising from the substance or mixture:

Flammable. In a fire or if heated, a pressure increase will occur and the container may burst, with risk of subsequent explosion. The vapor/gas is heavier than air and will spread along the ground. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Runoff to sewer may create fire or explosion hazard.

5.3. Advice for fire fighters:

Special protective equipment for fire fighters: Fire fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Further information: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving a personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool. Do not allow fire extinguishing water to contaminate surface or groundwater systems.

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures:

Advice for non-emergency personnel: Evacuate the danger zone; follow emergency precautions. Secure emergency assistance immediately. Avoid contact with the material; do not breathe vapors or aerosol. If possible, provide additional ventilation.

Advice for emergency responders: Do not take action without proper training and emergency equipment. See Section 8 for additional information. Evacuate surrounding areas. Eliminate all ignition sources including flares and all open flames. Avoid all contact with spiller material. Maintain adequate ventilation and wear appropriate respiratory protection.

6.2. Environmental precautions:

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

6.3. Methods and materials for containment:

Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, surface waters, basements or confined areas. Wash spillage into effluent treatment plant. Contain and collect spillage using appropriate personal protective equipment. Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products or if a risk assessment indicates this is necessary. Collect and contain spillage with non-combustible, absorbent material (e.g. sand, earth, vermiculite or diatomaceous earth) and place in a container for disposal according to local regulations. Use spark-proof tools and explosion proof equipment. Contaminated absorbent material may pose the same hazard(s) as the spilled product.

6.4. Reference to other sections:

See disposal instruction 13 and exposure controls Section 8.

7. Handling and storage

7.1. Precautions for safe handling:

Observe all label precautions. Use appropriate personal protective equipment (see section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use non-sparking tools. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Empty containers retain product residue and can be hazardous. Do not reuse container.

Advice on protection against fire and explosion: Keep away from flames and sources of ignition – including static.

7.2. Conditions for safe storage, including any incompatibilities:

Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

7.3. Specific end uses:

No other additional special end uses are anticipated.

8. Exposure controls/personal protection

8.1. Control parameters:

Personal, workplace or environmental monitoring may be necessary to ensure exposures are below recommended and legal limits.

Exposure Limits

BUTYL ACETATE (123-86-4)

ACGIH: 150 ppm TWA

NIOSH: 150 ppm TWA; 710 mg/m³ TWA

1700 ppm IDLH (10% LEL)

OSHA (US): 150 ppm TWA; 710 mg/m³ TWA

Mexico: 150 ppm TWA LMPE-PPT; 710 mg/m³ TWA LMPE-PPT

EU 150 ppm; 710 mg/m³

Exposure Limits for Chemicals which may be generated during processing

This material has no components listed.

8.2. Exposure controls:

Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

Engineering measures: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

Individual protection measures:

Hygiene measures: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Discard contaminated clothing or wash thoroughly before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts.

Hand protection: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is required.

Glove material: butyl or nitrile rubber
Glove thickness: 0.7 mm or thicker
Break through time: > 240 minutes

Other protective equipment: Flame retardant antistatic protective clothing

Respiratory protection: A properly fitted air purifying respirator or air supply respirator should be worn if a risk assessment indicates that respiratory protection is necessary. Respirator selection must be based upon known or measured levels of exposure.

Environmental exposure controls: Ventilation and engineering controls to protect workers and ventilate work area to at or below recommended employee exposure levels. Technical measures are preferred over use of personal protective equipment. Environmental controls, such as scrubber or thermal oxidizer may be required to prevent process releases to the atmosphere. Do not empty into drains—risk of explosion.

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties:

Physical State: Liquid	Appearance: Not available
Color: colorless	Physical Form: liquid

Odor: fruity odor, pleasant	Odor Threshold: 7 - 20 ppm
pH: Not available	Melting Point: -78 - -72 °C
Boiling Point: 125 - 127 °C	Decomposition: >127 °C
Evaporation Rate: 1 butyl acetate=1	Flash Point: 22 °C CC
LEL: 1.4 - 1.7 %	OSHA Flammability Class: IB
UEL: 7.5 - 7.6 %	Autoignition: 404 - 425 °C
Vapor Pressure: 8 - 10 mmHg 20 °C	Henry's Law Constant: 0.00017468 atm-m ³ /mol
Vapor Density (air = 1): 4.0	Density: Not available
Specific Gravity (water = 1): 0.875 - 0.9	Water Solubility: 0.7 %
KOW: 10000.00 estimated from water solubility	Coeff. Water/Oil Dist: Not available
KOC: 5321.08 estimated from water solubility	Viscosity: 0.74 cP at 20°C
Volatility: 100 %	Molecular Weight: 116.16
Molecular Formula: C-H ₃ -C-O-O-(C-H ₂) ₃ -C-H ₃	

Solvent Solubility

Soluble: ether, benzene, alcohol, acetone, chloroform,

10. Stability and reactivity

- 10.1. Reactivity:
Will not polymerize. Vapors may form explosive mixture with air.
- 10.2. Chemical stability:
Stable at normal temperature and pressures.
- 10.3. Possibility of hazardous reactions:
Will not polymerize. May decompose, exotherm or catch fire with mixed with incompatible materials.
- 10.4. Conditions to avoid:
Avoid heat, flames, sparks and other sources of ignition. Minimize contact with material. Avoid inhalation of material or combustion by-products. Keep out of water supplies and sewers. Do not store at elevated temperatures.
- 10.5. Incompatible materials:
Strong acids, strong bases, strong oxidizers, nitrates,
- 10.6. Hazardous decomposition products:
Carbon oxides.

11. Toxicological information

11.1. Information on toxicological effects:

<u>Acute oral toxicity</u> LD50 rat:	10680 mg/kg (RTECS)
<u>Acute inhalation toxicity:</u>	390 mg/l 4 hours (RTECS)
<u>Acute dermal toxicity</u> LD50 rabbit:	>17600 mg/kg (RTECS)
<u>Skin irritation:</u>	Moderate, 500mg/m ³ , skin, rabbits (IUCLID)
<u>Eye irritation:</u>	300 ppm, human (IUCLID)
<u>Sensitization:</u>	Negative, guinea pig (IUCLID)
<u>Genotoxicity in vitro:</u>	
Ames test:	negative (ECHA)
Mutagenicity:	negative, mammalian cell chromosome aberration. (ECHA)
<u>Specific target organ toxicity - single exposure:</u>	Central nervous system, drowsiness, dizziness
<u>Specific target organ toxicity - repeated exposure:</u>	Not classified as specific target organ toxicity.
<u>Aspiration hazard:</u>	Product may be an aspiration hazard

11.2. Additional information:

Further data: Headache, nausea in high concentrations. Handle using good occupational and environmental health practices.

12. Ecological information

12.1. Toxicity

<u>Toxicity in fish LC50:</u>	100 mg/L (IUCLID: 96 hour, fathead minnow)
<u>Toxicity to daphnia and other aquatic invertebrates:</u>	72 mg/L; (IUCLID: 72 hour, Daphnia magna)
<u>Toxicity to algae:</u>	675 mg/L (IUCLID: 72 hr. <i>Desmodesmus subspicatus</i>)

12.2. Persistence and degradability:

Biodegradable 100%

12.3. Bio accumulative potential:

Not expected

12.4. Mobility in soil:

No information available.

12.5. Results of PBT and vPvB assessment:

Assessment not conducted. Not classified as PBT or vPvB.

12.6. Other adverse effects:

Additional ecological information: Do not allow product to enter surface waters, wastewater or soil.

13. Disposal considerations

Waste treatment methods: The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection

and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

14. Transport Information

The transport regulations are cited according to international and/or harmonized transport regulations. Possible national deviations and country specific requirements are not considered.

Shipping Name: Butyl acetate

US DOT Information

Shipping Name: Butyl acetates

Hazard Class: 3

UN/NA #: UN1123

Packing Group: II

Required Label(s): 3

TDG Information

Shipping Name: Butyl acetates

Hazard Class: 3

UN #: UN1123

Packing Group: II

Required Label(s): 3

ADR Information

Shipping Name: Butyl acetates

Hazard Class: 3

UN #: UN1123

Packing Group: II

Required Label(s): 3

RID Information

Shipping Name: Butyl acetates

Hazard Class: 3

UN #: UN1123

Packing Group: II

Required Label(s): 3

IATA Information

Shipping Name: Butyl acetates

Hazard Class: 3

UN #: UN1123

Packing Group: II

Required Label(s): 3

ICAO Information

Shipping Name: Butyl acetates

Hazard Class: 3

UN #: UN1123

Packing Group: II

Required Label(s): 3

IMDG Information

Shipping Name: Butyl acetates

Hazard Class: 3

UN #: UN1123

Packing Group: II

15. Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture:

15.2. U.S. Federal Regulations

This material contains one or more of the following chemicals required to be identified under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 311/312 (40 CFR 370.21), SARA Section 313 (40 CFR 372.65), CERCLA (40 CFR 302.4), TSCA 12(b), and/or require an OSHA process safety plan.

N-BUTYL ACETATE (123-86-4)

CERCLA: 5000 lb final RQ; 2270 kg final RQ

SARA Section 311/312 (40 CFR 370 Subparts B and C)

Acute Health: Yes **Chronic Health:** No **Fire:** Yes **Pressure:** No **Reactive:** No

U.S. State Regulations

The following components appear on one or more of the following state hazardous substances lists:

Component	CAS	CA	MA	MN	NJ	PA
N-BUTYL ACETATE	123-86-4	Yes	Yes	Yes	Yes	Yes

Not listed under California Proposition 65

Canadian WHMIS Ingredient Disclosure List (IDL)

Components of this material have been checked against the Canadian WHMIS Ingredients Disclosure List. The List is composed of chemicals which must be identified on MSDSs if they are included in products which meet WHMIS criteria specified in the Controlled Products Regulations and are present above the threshold limits listed on the IDL.

N-BUTYL ACETATE (123-86-4)

1 %

Germany Water Classification

N-BUTYL ACETATE (123-86-4)

ID Number 42, hazard class 1 - low hazard to waters

Risk Phrases

R10 Flammable.

R66 Repeated exposure may cause skin dryness or cracking.

R67 Vapors may cause drowsiness and dizziness.

Safety Phrases**S2** Keep out of the reach of children.**S25** Avoid contact with eyes.**Component Analysis - Inventory**

N- BUTYL 123-86-4	US	CA	EU	AU	PH	JP	KR	C N	NZ
	Ye	DS	EI	Ye	Ye	Ye	Ye	Ye	Ye

Globally Harmonized System of Classification and Labelling (GHS)

The listed component(s) of this material have been checked for country-specific published classifications according to the Globally Harmonized

Australia GHS Classifications

No published information available. This material may be hazardous according to published criteria for classification.

European Union GHS Classifications

Classifications below according to Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures (CLP).

N-BUTYL ACETATE (123-86-4)

Flammable liquids - Category 3

H226 Flammable liquid and vapour

Specific target organ toxicity - Single exposure - Category 3

H336 May cause drowsiness or dizziness**European Union GHS Labelling Information**

Labelling information below is according to Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures (CLP).

N-BUTYL ACETATE (123-86-4) Symbol(s):

Signal Word: Warning

Hazard(s):

H226: Flammable liquid and vapour

H336: May cause drowsiness or dizziness

Prevention:

P233: Keep container tightly closed.

P210: Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P240: Ground/Bond container and receiving equipment.

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

P242: Use only non-sparking tools.

P243: Take precautionary measures against static discharge.

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

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

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

Response:

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

P303+P361+P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

P312: Call a POISON CENTER or doctor/physician if you feel unwell.

P370+P378: In case of fire: Use ... for extinction.

Storage:

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

P403+P235: Store in a well-ventilated place. Keep cool.

P405: Store locked up.

Disposal:

P501: Dispose of contents/container to ...

Supplemental:

EUH066: Repeated exposure may cause skin dryness or cracking.

Indonesia GHS Classifications

No published information available. This material may be hazardous according to published criteria for classification.

Japan GHS Classifications

Classifications below published under Japan's Chemicals Classification Program according to the Globally Harmonized System of Classification and Labelling of Chemicals (GHS).

N-BUTYL ACETATE (123-86-4)

Flammable liquids - Category 2

H225 Highly flammable liquid and vapour (Approval: 21B3031)

Acute toxicity - Inhalation - Dust and Mist - Category 3

H331 Toxic if inhaled (Approval: 21B3031)

Acute toxicity - Inhalation - Vapour - Category 3

H331 Toxic if inhaled (Approval: 00726)

Serious Eye Damage/Eye Irritation - Category 2B

H320 Causes eye irritation (Approval: 21B3031)

Specific target organ toxicity - Single exposure - Category 2

H371 May cause damage to %1X% (Approval: 21B3031)

Hazardous to aquatic environment - acute hazard - Category 3

H402 Harmful to aquatic life (Approval: 21B3031)

Japan GHS Labelling Information

Labelling information below according to classifications published by Japan's Chemicals Classification Program according to the Globally

Harmonized System of Classification and Labelling of Chemicals (GHS).

N-BUTYL ACETATE (123-86-4) Symbol(s):

Signal Word: Danger

Hazard(s):

H225: Highly flammable liquid and vapour

H331: Toxic if inhaled

H320: Causes eye irritation

H371: May cause damage to organs

H402: Harmful to aquatic life

Prevention:

P233: Keep container tightly closed.

P210: Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P240: Ground/Bond container and receiving equipment.

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

P242: Use only non-sparking tools.

P243: Take precautionary measures against static discharge.

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

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

P260: Do not breathe dust/fume/gas/mist/vapours/spray.

P264: Wash ... thoroughly after handling.

P270: Do not eat, drink or smoke when using this product.

P273: Avoid release to the environment.

Response:

P308+P313: IF exposed or concerned: Get medical advice/attention.

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

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313: If eye irritation persists: Get medical advice/attention.

P303+P361+P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

P370+P378: In case of fire: Use ... for extinction.

Storage:

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

P403+P235: Store in a well-ventilated place. Keep cool.

P405: Store locked up.

Disposal:

P501: Dispose of contents/container to ...

Korea GHS Classifications (SV)

Classifications below published by Korea's Ministry of Environment (MOE), Ministry of Employment and Labor (MOEL) or Office of National Emergency Management (NEMA, physical hazards only).

N-BUTYL ACETATE (123-86-4)

MOEL:Flammable liquids - Category 2

H225 Highly flammable liquid and vapour.

Acute toxicity - Inhalation - Dust and Mist - Category 4

H332 Harmful if inhaled.

Acute toxicity - Inhalation - Vapour - Category 3

H331 Toxic if inhaled. Specific target organ toxicity - Single exposure - Category 1

H370 Causes damage to %1X%.

Specific target organ toxicity - Single exposure - Category 2

H371 May cause damage to %1X%.

Specific target organ toxicity - Single exposure - Category 3

H335 May cause respiratory irritation.

NEMA: Flammable liquids - Category 3

H226 Flammable liquid and vapour.

Korea GHS Labelling Information

Labelling information below according to classifications published by Korea's Ministry of Environment (MOE), Ministry of Employment and Labor (MOEL) or Office of National Emergency Management (NEMA, physical hazards only).

N-BUTYL ACETATE (123-86-4) Symbol(s):



Signal Word: Danger

Hazard(s):

H225: Highly flammable liquid and vapour

H332: Harmful if inhaled

H331: Toxic if inhaled

H370: Causes damage to organs

H335: May cause respiratory irritation

Prevention:

P233: Keep container tightly closed.

P210: Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P240: Ground/Bond container and receiving equipment.

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

P242: Use only non-sparking tools.

P243: Take precautionary measures against static discharge.

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

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

P260: Do not breathe dust/fume/gas/mist/vapours/spray.

P264: Wash ... thoroughly after handling.

P270: Do not eat, drink or smoke when using this product.

Response:

P308+P313: IF exposed or concerned: Get medical advice/attention.

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

P311: Call a POISON CENTER or doctor/physician.

P312: Call a POISON CENTER or doctor/physician if you feel unwell.

P303+P361+P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

P312: Call a POISON CENTER or doctor/physician if you feel unwell.

P321: Specific treatment (see ... on this label).

P370+P378: In case of fire: Use ... for extinction.

Storage:

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

P403+P235: Store in a well-ventilated place. Keep cool.

P405: Store locked up.

Disposal:

P501: Dispose of contents/container to ...

Symbol(s):



Signal Word: Warning

Hazard(s):

H226: Flammable liquid and vapour

Prevention:

P233: Keep container tightly closed.

P210: Keep away from heat/sparks/open flames/hot surfaces. - No smoking

P240: Ground/Bond container and receiving equipment.

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

P242: Use only non-sparking tools.

P243: Take precautionary measures against static discharge.

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

Response:

P303+P361+P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

P370+P378: In case of fire: Use ... for extinction.

Storage:

P403+P235: Store in a well-ventilated place. Keep cool.

Disposal:

P501: Dispose of contents/container to ...

New Zealand GHS Classifications

Classifications below according to the Environmental Risk Management Authority's (ERMA) Hazardous Substances and New Organisms (HSNO)

Act, as amended.

N-BUTYL ACETATE (123-86-4) Approval: HSR001091

Flammable liquids - Category 2

H225 Highly flammable liquid and vapour.

Acute toxicity - Oral - Category 5

H303 May be harmful if swallowed.

Acute toxicity - Inhalation - Category 4

H332 Harmful if inhaled.

Skin corrosion/irritation - Category 3

H316 Causes mild skin irritation.

Serious eye damage/eye Irritation - Category 2A

H319 Causes serious eye irritation.

Hazardous to aquatic environment - acute hazard - Category 3

H402 Harmful to aquatic life.

New Zealand GHS Labelling Information

Labelling information below according to classifications published by New Zealand's Environmental Risk Management Authority's (ERMA)

Hazardous Substances and New Organisms (HSNO) Act, as amended.

N-BUTYL ACETATE (123-86-4) Symbol(s):



Signal Word: Danger

Hazard(s):

H225: Highly flammable liquid and vapour

H303: May be harmful if swallowed

H332: Harmful if inhaled

H316: Causes mild skin irritation

H319: Causes serious eye irritation

H402: Harmful to aquatic life

Prevention:

P233: Keep container tightly closed.

P210: Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P240: Ground/Bond container and receiving equipment.

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

P242: Use only non-sparking tools.

P243: Take precautionary measures against static discharge.

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

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

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

P264: Wash ... thoroughly after handling.

P273: Avoid release to the environment.

Response:

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

P312: Call a POISON CENTER or doctor/physician if you feel unwell.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313: If eye irritation persists: Get medical advice/attention.

P303+P361+P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

P332+P313: If skin irritation occurs: Get medical advice/attention.

P312: Call a POISON CENTER or doctor/physician if you feel unwell.

P370+P378: In case of fire: Use ... for extinction.

Storage:

P403+P235: Store in a well-ventilated place. Keep cool.

Disposal:

P501: Dispose of contents/container to ...

South Africa GHS Classifications

N-BUTYL ACETATE (123-86-4) Listing: Present

Taiwan GHS Classifications

Information below presented according to Taiwan's Bureau of Standards, Metrology and Inspection (BSMI) of the Ministry of Economic Affairs.

This agency has published a series of standards (CNS 15030 1-27 Chemical Classification and Labelling) which provide guidance on classification and labelling of chemicals according to GHS.

N-BUTYL ACETATE (123-86-4)

Taiwan: Flammable liquids - Category 2

H225 Highly flammable liquid and vapour

Acute toxicity - Inhalation - Category 3

H331 Toxic if inhaled

Skin corrosion/irritation - Category 3

H316 Causes mild skin irritation

Serious Eye Damage/Eye Irritation - Category 2B

H320 Causes eye irritation

Specific target organ toxicity - Single exposure - Category 3

H336 May cause drowsiness or dizziness

Taiwan GHS Labelling Information

Labelling information below according to classifications published by Taiwan's Bureau of Standards, Metrology and Inspection (BSMI) of the

Ministry of Economic Affairs. This agency has published a series of standards (CNS 15030 1-27 Chemical Classification and Labelling) which provide guidance on classification and labelling of chemicals according to GHS.

N-BUTYL ACETATE (123-86-4) Symbol(s):



Signal Word: Danger

Hazard(s):

H225: Highly flammable liquid and vapour

H331: Toxic if inhaled

H316: Causes mild skin irritation

H320: Causes eye irritation

H336: May cause drowsiness or dizziness

Prevention:

P233: Keep container tightly closed.

P210: Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P240: Ground/Bond container and receiving equipment.

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

P242: Use only non-sparking tools.

P243: Take precautionary measures against static discharge.

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

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

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

P264: Wash ... thoroughly after handling.

Response:

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

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313: If eye irritation persists: Get medical advice/attention.

P303+P361+P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

P332+P313: If skin irritation occurs: Get medical advice/attention.

P312: Call a POISON CENTER or doctor/physician if you feel unwell.

P370+P378: In case of fire: Use ... for extinction.

Storage:

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

P403+P235: Store in a well-ventilated place. Keep cool.

P405: Store locked up.

Disposal:

P501: Dispose of contents

15.3. **Chemical Safety Assessment:**

Sipchem has not conducted a chemical safety assessment for this product.

16. Other information

16.1. Training Advice:

Provide safety information, instruction and training to operators handling Butyl Acetate.

The information and recommendations herein are taken from data contained in independent, industry recognized references. Although reasonable care has been taken in the preparation of the information herein, Sipchem Chemicals Company. Make no guarantee, warranty (express or implied) or other representation and assume no responsibility as to the accuracy or suitability of such information for application of the information, since conditions of its use are beyond control of these companies. Sipchem Chemicals Company shall not bear any liability whatsoever for any loss or damage incurred in connection with the use of this substance.