



SAFETY DATA SHEET

SEC-BUTYL ACETATE

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

Product name:	SEC-BUTYL ACETATE
Recommended use:	Chemical for industrial
Manufacturer/Supplier:	MODERN CHEMICAL CO.,LTD. 82/80 Soi Ekamai 22 (Nuannoi), Sukhumvit 63, Klong Tan Nuea, Watthana, Bangkok 10110
Telephone No:	0-2715-0897-9, 0-2392-3410-3
Fax No:	0-2715-0908-9, 0-2391-1571-2
Emergency Telephone No:	0-2715-0897-9, 0-2392-3410-3

2. HAZARDS IDENTIFICATION

Label elements

Pictogram



Signal word

Danger

Hazard statement(s)

- 1.) Highly flammable liquid and vapour.
- 2.) Causes skin irritation.
- 3.) May be fatal if swallowed and enters airways.
- 4.) May cause drowsiness or dizziness.
- 5.) Toxic to aquatic life with long lasting effects.
- 6.) May damage the unborn child. Suspected of damaging fertility.

Precautionary statement(s)

- 1.) Keep away from heat/sparks/open flames/hot surfaces. - No smoking.



- 2.) Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
- 3.) Avoid release to the environment.
- 4.) IF SWALLOWED: call a doctor/physician. Do NOT induce vomiting.
- 5.) IF IN EYES: Rinse cautiously with water for 15 minutes.
- 6.) IF ON SKIN Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonym: N/A

Ingredients	% (w/w)	CAS NO.
SEC-BUTYL ACETATE	100	105-46-4

4. FIRST AID MEASURES

General advice:

Immediately remove any clothing soiled by the product. Show this safety data sheet to the doctor in attendance.

Inhalation:

Move to fresh air in case of accidental inhalation of vapors. Keep patient warm. In case of shortness of breath, give oxygen. Apply artificial respiration only if patient is not breathing or under medical supervision. No artificial aspiration mouth to mouth or mouth to nose. Use suitable instruments/apparatus.

Skin contact:

Remove contaminated clothing and wash affected skin with soap and water. If signs of poisoning appear, treat as for inhalation. Wash contaminated clothing before reuse. Contaminated combustible material, e.g. clothing ignites more readily and burns fiercely.

Eye contact:

If substance has got into the eyes, immediately wash out with plenty of water for at least 15 minutes. Obtain medical attention.

Ingestion:

Rinse mouth. **Do not induce vomiting.** Keep patient warm. In case of shortness of breath, give oxygen. Apply artificial respiration only if patient is not breathing or under medical supervision. No artificial aspiration mouth to mouth or mouth to nose. Use suitable instruments/apparatus. Obtain medical attention. Never give anything by mouth to an unconscious person.



5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Extinguish with carbon dioxide, dry chemical or foam. In the event of fire, cool tanks with water spray.

Unsuitable Extinguishing Media

Do not use a solid water stream as it may scatter and spread fire.

Specific hazards arising from Chemicals

Vapors may form explosive mixture with air. Flash back possible over considerable distance.

Special protective equipment for fire-fighters

Wear self-contained breathing apparatus and protective suit.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:

Evacuate personnel to safe areas. Do not breathe vapors or spray mist. Remove all sources of ignition. Wear a positive-pressure supplied-air respirator, flame retardant antistatic protective clothing. Shut off leaks if without risk. Keep people away from and upwind of spill/leak.

Environmental precautions:

Contain or absorb leaking liquid with sand or earth, consult an expert. Prevent liquid entering sewers, basements and work pits. If substance has entered a water course or sewer or contaminated soil or vegetation, advise police.

Methods and Material for Containment and Clean Up:

Soak up with inert absorbent material (e.g. sand, silica gel). Prevent liquid entering sewers, basements and work pits; vapor may create explosive atmosphere.

Transfer to covered steel drums. Dispose of promptly.

7. HANDLING AND STORAGE

Precautions for Safe Handling & Product Transfer:

Keep container tightly closed. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). Use only in area provided with appropriate exhaust ventilation. Do not breathe vapors or spray mist. Avoid contact with skin, eyes and clothing. Do not empty into drains.

Conditions for Safe Storage & Unsuitable Materials:

Keep tightly closed at room temperature in a dry, cool and well-ventilated place. Keep away from heat and sources of ignition. Keep out of direct sunlight and away from incompatible material. Store in original container. Electrical equipment should be protected to the appropriate standard.



8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits: TWA 200 ppm (950 mg/m³)

Appropriate Engineering Controls: The product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Ventilation hoods and fans required when working with organic solvents or in hot melt applications.

Individual Protection Measures

Respiratory protection: In case of insufficient ventilation, wear suitable respiratory equipment. Required when vapor/aerosols are generated filter AX (EN371)

Hand protection: Handle with gloves. In case full contact wear gloves from butyl rubber material, in splash contact wear gloves from natural rubber material. The select protective gloves have to satisfy the specifications of EU Directive 89/686 EEC and standard EN 374 derived from it.

Eye protection: Goggles giving complete protection to eyes.

Skin and body Protection: Chemical resistant apron / flame retardant antistatic protective clothing, heavy duty work shoes.

Hygiene measure: Ventilation hoods and fans required when working with organic solvents or in hot melt applications. Keep working clothes separately. Keep away from food, drink and animal feeding stuffs.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form: Color and Odor: liquid, colorless, characteristic	Evaporation rate : 1.8-2.0 (nBAC=1)
Melting Point: -98.9 °C	Specific gravity : 0.870-0.875 g/cm ³ at 20 °C
pH: N/A	Solubility in water : Insoluble
Boiling point : 112.3 °C	Viscosity : 23.33 mpa.s at 21.1 °C
Vapour pressure: 3.2 KPa at 25 °C	Vapour density: 4 g/ml (Air=1)
Lower explosion limits: N/A	Upper explosive limit: N/A
Auto-ignition temperature: 460 °C	Flash point: 16 °C
Odour threshold: N/A	Flammability (solid, gas): N/A
Decomposition temperature: N/A	Solubility in other solvents: ethanol, ether and other organic solvents
n-octanol/water partition coefficient (log P_{ow}): 1.51	



10. STABILITY AND REACTIVITY

- Chemical Stability:** Stable under recommended storage conditions.
- Reactions:** No data available.
- Possibility of Hazardous Reactions:** No data available
- Conditions to avoid:** Heat, flames and sparks.
- Materials to be avoided:** Alkali hydroxides, halogen and halogen compounds, strong oxidizing and strong reducing agent peroxi compounds, alkali metals, activated charcoal
- Hazardous Decomposition Products:** Carbon oxides.

11. TOXICOLOGICAL INFORMATION

- Acute toxicity:** LD50 Oral – rat - 3200 mg/kg
- Sensitization:** Irritant effect on eyes. Risk of corneal clouding. Slight irritant to skin. Slight irritant to respiratory system. After inhalation of vapors; mucosal irritations, drowsiness. In high dose; headache, salivation, nausea, vomiting. Dizziness narcosis can not be exclude coma. After swallowing; gastrointestinal complaints, headache, salivation, nausea, vomiting, dizziness, narcosis, coma.
- Chronic toxicity:** Repeated or prolonged skin contact may cause skin irritation and/or dermatitis and sensitization of susceptible persons. Non carcinogenic in animal experiments. No impairment of reproductive performance in animal experiments. Sensitization test (guinea pig) is negative.
- Further toxicological information:** The product should be handled with the care usual when dealing with chemicals

12. ECOLOGICAL INFORMATION

- Toxicity**
- Toxicity to fish: No data available
- Toxicity to daphnia and other aquatic invertebrates: No data available
- Toxicity to bacteria: No data available
- Biodegradability remark: No data available
- Bioaccumulative potential:** No data available



Mobility: No data available

Affected in any other way: No data available

13. DISPOSAL CONSIDERATIONS

Material Disposal: There are no uniform EC Regulations for the disposal of chemicals or residues. Chemical residues generally count as special waste. The disposal of the latter is regulated in the EC member countries through corresponding law and regulations. We recommend that you contact either the authorities in charge or approved waste disposal companies which will advise you on how to dispose of special waste or burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Observe all federal, state, and local environmental regulations.

Container Disposal: Disposal in compliance with official regulations. Handle contaminated packaging as hazardous waste in the same way of the substance itself. If not officially specified differently, non-contaminated packaging may be treated like household waste or recycled.

14. TRANSPORT INFORMATION

ADR/RID

UN-No: 1123 Class: 3 Packing group: II

Proper shipping name: BUTYL ACETATES

IMDG

UN-No: 1123 Class: 3 Packing group: II

Marine pollutant: No

Proper shipping name: BUTYL ACETATES

IATA

UN-No: 1123 Class: 3 Packing group: II

Proper shipping name: Butyl Acetates

15. REGULATORY INFORMATION

GHS – Labeling:

Hazard statement(s)



- H225 Highly flammable liquid and vapor.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.
EUH066 Repeated exposure may cause skin dryness or cracking.

Precautionary statement(s)

- P210 Keep away from heat/sparks/open flames/hot surfaces. No 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 measures against static discharge.
P261 Avoid breathing vapors.
P264 Wash hand thoroughly after handling.
P271 Use only outdoor or in a well-ventilated area.
P280 Wear protective gloves/eye protection/face protection.
P303 + P361 + P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing.
Rinse skin with water/shower.
P304 + P340 IF INHALED Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305 + P351 + P338 IF IN EYE: 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.
P312 Call a POISON CENTER or doctor/physical if you feel unwell.
P370 + P378 In case of fire: Use dioxide, dry chemical or foam for extinction.
P403 + P235 Store in a well-ventilated place. Keep cool.
P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
P405 Store locked up.

Hazard symbol(s)

- Xi Irritant
F Highly flammable

R - phrase(s)

- R11 Highly flammable.
R36 Irritating to eyes.



R66 Repeated exposure may cause skin dryness or cracking.

R67 Vapor may cause drowsiness and dizziness.

S - phrase(s)

S9 Keep container in a well-ventilated place.

S16 Keep away from sources of ignition. - No smoking.

S26 In case of contacts with eyes, rinse immediately with plenty of water and seek medical advice.

16. OTHER INFORMATION

Modern Chemical Co., Ltd. provides the information contained herein in good faith but makes no representation as to its comprehensive or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose.

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