

SAFETY DATA SHEET

Butyl Acetate, n-

This SDS is valid for all grades that start with catalog number
304

1. IDENTIFICATION OF SUBSTANCE / MIXTURE AND OF SUPPLIER

Product Identifier: High Purity Chemicals
Synonyms: 1-Butyl Acetate; Butyl Ethanoate; Acetic Acid, n-Butyl Ester
Other means of identification: CAS No. 123-86-4
EINECS No. 204-658-1

Recommended use of the chemical and restrictions on use:

Used in the production of lacquers.

Supplier Details:

Greenfield Global USA, Inc.
1101 Isaac Shelby Drive, Shelbyville,
KY 40065, USA.
Tel: 502.232.7600
Fax: 502.633.6100
CCN17213

Greenfield Global USA, Inc.
58 Vale Road, Brookfield,
CT 06804, USA.
Tel: 203.740.3471
Fax: 203.740.3481
CCN17213

Emergency Contact: CHEMTREC: 1.800.424.9300 (USA) / +1.703.527.3887 (International)

2. HAZARDS IDENTIFICATION

OSHA Hazards:

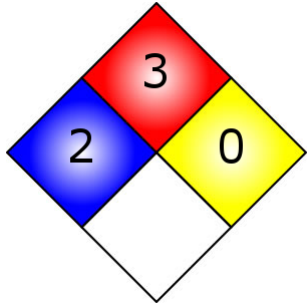
Flammable liquid, Target Organ Effect, Irritant

Target Organs:

Central nervous system



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GHS label elements, including precautionary statements



Signal Word:

WARNING!

Hazard statement(s)

H226	Flammable liquid and vapor
H336	May cause drowsiness or dizziness.

Precautionary statement(s)

P210	Keep away from heat, sparks, open flames, and hot surfaces. No smoking.
P233	Keep container tightly closed.
P280	Wear protective gloves and eye and face protection.
P235	Keep cool.
P261	Avoid breathing dust/fumes/gas/mist/vapors.
P312	Call a POISON CENTER or doctor/ physician if you feel unwell.
P303 + P361 + P353	IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse skin with water.
P304 + P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

GHS Classification(s)

Flammable Liquids (Category 3)
Specific target organ toxicity - single exposure (Category 3)

Other hazards which do not result in classification:

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Potential Health Effects:

Organ	Description
Eyes	Causes eye irritation.
Ingestion	May be harmful if swallowed.
Inhalation	May be harmful if inhaled. Causes respiratory tract irritation. Vapors may cause drowsiness and dizziness.
Skin	Harmful if absorbed through skin. Causes skin irritation.

3. COMPOSITION AND INFORMATION ON INGREDIENTS

Chemical identity:	Butyl Acetate
Common name / Synonym:	Acetic acid, n-butyl ester Butyl ethanoate
CAS number:	123-86-4
EINECS number:	204-658-1
ICSC number:	0399
RTECS #:	AF7350000
UN #:	UN1123
EC #:	607-025-00-1

% Weight	Material	CAS
100	n-Butyl Acetate	123-86-4

4. FIRST AID MEASURES

General advice

Take proper precautions to ensure your own health and safety before attempting rescue and providing first aid. Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

Skin

Get medical aid. Immediately flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing/shoes.

Inhalation

Remove person to fresh air. If signs/symptoms continue, get medical attention. Give oxygen or artificial respiration as needed.

Eyes

Thoroughly flush the eyes with large amounts of clean low-pressure water for at least 15 minutes, occasionally lifting the upper and lower eyelids. If irritation persists, seek medical attention.

Ingestion

DO NOT induce vomiting. If vomiting does occur, have victim lean forward to prevent aspiration. Rinse mouth with



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water. Seek medical attention. Never give anything by mouth to an unconscious individual. **+1.703.527.3887 (INT)**

5. FIRE FIGHTING MEASURES

Suitable (and unsuitable) extinguishing media:

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Specific hazards arising from the chemical (e.g., nature of any hazardous combustion products):

Carbon oxides expected to be the primary hazardous combustion product.

Special protective equipment and precautions for firefighters:

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Keep unopened containers cool by spraying with water.

Vapor is heavier than air and can travel considerable distance to a source ignition and flashback. Vapors may form explosive mixture with air. Components of the product may be absorbed into the body by inhalation.

Flammable Properties

Classification

OSHA/NFPA Class IB Flammable Liquid.

Flash point

22 °C (72 °F) - closed cup

Autoignition temperature

425 °C (797 °F)

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Wear respiratory protection. Do not inhale vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations.

Vapors can accumulate in low areas.

Environmental precautions:

Stop leak. Contain spill if possible and safe to do so. Prevent product from entering drains.

Methods and materials for containment and cleaning up:

Contain spill, then collect with an electrically protected vacuum cleaner or by wet-brushing and put the material into a convenient waste disposal container. Keep container closed.

7. HANDLING AND STORAGE



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Precautions for safe handling:

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Do not get on skin or in eyes. Do not inhale vapor or mist. Keep away from sources of ignition - No smoking. Take measures to prevent the buildup of electrostatic charge. Open and handle container with care. Metal containers involved in the transfer of this material should be grounded and bonded.

Conditions for safe storage, including any incompatibilities:

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters, e.g., occupational exposure limit values or biological limit values:

Occupational Exposure Limits

Component	Source	Type	Value	Note
Butyl Acetate	US (ACGIH)	STEL	200 ppm	
Butyl Acetate	US (ACGIH)	TWA	150 ppm	

Appropriate engineering controls:

Use process enclosure, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.

Individual protection measures, such as personal protective equipment:

Respiratory protection:

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand protection:

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Eye protection:

Use chemical safety goggles and/or a full face shield where splashing is possible. Use equipment approved by appropriate government standards, such as NIOSH (US) or EN166 (EU) Maintain eye wash fountain and quick-drench facilities in work area.

Skin and body protection:

Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

Hygiene measures:

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end

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9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance (<i>physical state, color, etc.</i>)	Liquid. Colorless, clear.
Freezing point	-78 °C (-108 °F)
Initial boiling point and boiling range	127 °C (260 °F)
Flash point	22°C (72°F) - closed cup
Upper / Lower flammability or explosive limits	1.3% (V) / 7.6% (V)
Vapor pressure	20 hPa (15 mmHg) at 25 °C (77 °F)
Vapor Density	4.01
Relative Density	0.88 g/cm ³ at 25 °C (77 °F)
Solubility(ies)	Slightly soluble
Auto-ignition temperature	425 °C (797 °F) - closed cup
Formula (BUTYL ACETATE)	C ₆ H ₁₂ O ₂
Molecular Weight (BUTYL ACETATE)	116.16 g/mol

10. STABILITY AND REACTIVITY

Possibility of hazardous reactions	Vapors may form explosive mixture with air.
Conditions to avoid (e.g., static discharge, shock or vibration)	Heat, flames, and sparks.
Incompatible materials	Strong oxidizing agents, Strong reducing agents, Strong bases
Hazardous decomposition products	Hazardous decomposition products formed under fire conditions. - Carbon oxides

11. TOXICOLOGICAL INFORMATION

- Butyl Acetate 123-86-4

Product Summary:

Laboratory experiments have shown teratogenic effects in rats. No data available for the mutagenic or reproductive effects of the product.

Acute Toxicity:

LC50 (Inhalation)	Rat	9.6 - 29.2 mg/L	4 hours
LD50 (Dermal)	Rabbit	17,600 mg/kg	
LD50 (Oral)	Rat	10,700 - 14,130 mg/kg	

Irritation:

No data available



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Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Other Hazards

Organ	Description
Eyes	Irritating to the eyes.
Ingestion	May be harmful if ingested.
Inhalation	May be harmful if inhaled. Irritating to the respiratory tract. Vapors may cause drowsiness and dizziness.
Skin	May be harmful if absorbed through skin. Irritating to the skin.

12. ECOLOGICAL INFORMATION

- Butyl Acetate 123-86-4

Ecotoxicity (aquatic and terrestrial, where available):

Acute Fish Toxicity (BUTYL ACETATE)

LC50 / 96 hours Bluegill - 100 mg/L

Persistence and degradability:

No data available

Bioaccumulative potential:

No data available

13. DISPOSAL CONSIDERATIONS

Description of waste residues and information on their safe handling and methods of disposal, including the disposal of any contaminated packaging:



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Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

14. TRANSPORT INFORMATION

Description of waste residues and information on their safe handling and methods of disposal:

UN number	UN1123
UN proper shipping name	Butyl acetates
Transport hazard class(es)	3
Packing group (if applicable)	III

Reportable Quantity

5,000 lbs

IMDG

UN-Number: UN1123 Class: 3 Packing Group: III

EMS-No: F-E, S-D

Proper shipping name: BUTYL ACETATES

Marine pollutant: No

IATA

UN-Number: UN1123 Class: 3 Packing Group: III

Proper shipping name: Butyl acetates

15. REGULATORY INFORMATION

Safety, health and environmental regulations specific for the product in question:

OSHA Hazards

Flammable liquid, Target Organ Effect, Irritant

All ingredients are on the following inventories or are exempted from listing

Country	Notification
Australia	AICS
Canada	DSL
China	IECS
European Union	EINECS
Japan	ENCS/ISHL
Korea	ECL
New Zealand	NZIoC
Philippines	PICCS
United States of America	TSCA

SARA 302 Components

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.



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SARA 313 Components

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards

Acute Health Hazard
Chronic Health Hazard
Fire Hazard

CERCLA

Butyl acetate CAS-No. 123-86-4

Massachusetts Right To Know Components

n-Butyl acetate CAS-No. 123-86-4 Revision Date 1993-04-24

Pennsylvania Right To Know Components

n-Butyl acetate CAS-No. 123-86-4 Revision Date 1993-04-24

New Jersey Right To Know Components

n-Butyl acetate CAS-No. 123-86-4 Revision Date 1993-04-24

California Prop 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

**16. OTHER INFORMATION:
INCLUDING INFORMATION ON PREPARATION AND REVISION OF THE SDS**

Disclaimer

Greenfield Global USA, Inc. believes that the information on this SDS was obtained from reliable sources. However, the information is provided without any warranty, expressed or implied, regarding its correctness. Some information presented and conclusions drawn herein are from sources other than direct test data on the substance itself. The conditions or methods of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, Greenfield Global USA, Inc. does not assume responsibility and expressly disclaims liability for loss, damage, or expense arising out of or in any way connected with handling, storage, use, or disposal of this product. If the product is used as a component in another product, this SDS



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information may not be applicable. Information is correct to the best of our knowledge at the time of publication.
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