


Safety Data Sheet

Document code: SDS-BUTYL ACETATE	Name of substance or mixture BUTYL ACETATE		
	Version: 1.0	Date of approval: USO EXCLUSIVO DE ASEGURAMIENTO DE CALIDAD	Review date : USO EXCLUSIVO DE ASEGURAMIENTO DE CALIDAD
	It replaces: Version 1.0/170222		

SECTION 1. Identification

1.1. GHS product identifier:

Product form: Liquid
Product name: Butyl acetate
CAS No: 123-86-4

1.2. Other means of identification:

Butyl acetate, n-Butyl ester of acetic acid, Butyl ethanoate.

1.3. Recommended use of the chemical and restrictions on use:

Formulation, coatings, cleaning agent, laboratory chemicals.

1.4. Supplier's details:

Industrias Monfel, S.A. de C.V.
Avenida Promoción No. 345
Zona Industrial, 1ª. Sección
San Luís Potosí, S.L.P.
(444)-824-5622

1.5. Emergency phone number:

Emergency number: CHEMTREC USA (800) 424 9300 SETIQ +52 55 5559 1588.

SECTION 2. Hazard identification

2.1. Classification of the substance or mixture:

Hazard class	Hazard category
Flammable liquid	Category 3
Specific target organ toxicity-Single exposure	Category 3

2.2. GHS label elements, including precautionary statements:

Hazard Pictograms




Signal word

Warning

Hazard statements:

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

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Precautionary statements:

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P240	May cause drowsiness or dizziness.
P241	Use explosion-proof. (electrical/ventilating/lighting) equipment.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P271	Use only outdoors or with adequate ventilation.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P370+P378	IF IN CASE OF FIRE: Use dry chemical powder, alcohol-resistant foam and CO ₂ , to extinguish.
P403+P235	Store in a well-ventilated place. Keep container tightly closed.
P501	Dispose of content/recipient according to local / regional / national / international regulations.

2.3. Other hazards which do not result in classification:

Information not available.

SECTION 3. Composition/information on ingredients

3.1. Substances:

Chemical identity of the substance: Butyl acetate.

Common name(s) synonym(s) of the substance: Butyl acetate, n-Butyl ester of acetic acid, Butyl ethanoate.

CAS number: 123-86-4

Impurities and stabilizing additives which are themselves classified and which contribute to the classification of the substance: Not available.

3.2. Mixtures:


Not applicable.

SECTION 4. First-aid measures

4.1. Description of necessary first-aid measures:

Inhalation:	Remove the person from the exposed area to fresh air immediately. If breathing is difficult, give oxygen. Get medical advice if adverse symptoms will appear.
Skin contact:	Remove contaminated clothes and shoes immediately. Wash affected area with soap or mild detergent and large amount of water until no evidence of substance remains (15-20 minutes). Get medical advice if adverse symptoms will appear.

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Eye contact: Wash immediately with plenty of water or normal saline for at least 15 minutes. Keep eyelids open with the finger. Remove the contact lenses, if present. Get medical advice if adverse symptoms will appear.

Ingestion: Clean mouth with water, only if the person is conscious. Do not induce vomiting. Get medical advice if adverse symptoms will appear.

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

Irritation eyes, skin, upper respiratory system; headache, drowsiness, narcosis.

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

Treat symptomatically. The treatment of overexposure should be aimed at controlling the symptoms and the patient's clinical condition.

SECTION 5. Fire-fighting measures

5.1. Suitable extinguishing media

Suitable extinguishing media: Water spray, Carbon dioxide (CO₂), Dry powder, Foam.

Unsuitable extinguishing media: Do not use strong water currents. A strong water current can spread the burning liquid.

5.2. Specific hazards arising from the chemical:

Fire Hazard: Highly flammable: Will be easily ignited by heat, sparks or flames.

Explosion Hazard: Vapors may form explosive mixtures with air. Vapor explosion hazard indoors, outdoors or in sewers.

Reactivity: Nitrates; strong oxidizers, alkalis & acids.


5.3. Special protective actions for fire-fighters:

Precautionary measures fire: Thermal decomposition can lead to release of irritating gases and vapors. Combustible material.

Protection during firefighting: As in any fire, wear self-contained breathing apparatus and full protective gear.

Firefighting instructions: Small fire: Dry chemical, CO₂, water spray or alcohol-resistant foam. Large fire: Water spray, fog or alcohol-resistant foam. Avoid aiming straight or solid streams directly onto the product. If it can be done safely, move undamaged containers away from the area around the fire. Fire Involving Tanks or Car/Trailer Loads: Fight fire from maximum distance or use unmanned master stream devices or monitor nozzles. Cool containers with flooding quantities of water until well after fire is out. Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank. ALWAYS stay away from tanks engulfed in fire. For massive fire, use unmanned master stream devices or monitor nozzles; if this is impossible, withdraw from area and let fire burn.

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Hazard products: **combustion** Carbon oxides (CO, CO₂). Toxic fumes may be released.

SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures:

General measures: Isolate spill or leak area for at least 50 meters. In case large spill, consider initial downwind evacuation for at least 300 meters.

Protective equipment: Use personal protective equipment. Avoid contact with fumes/mists/vapors.

Emergency procedures: ELIMINATE all ignition sources (no smoking, flares, sparks or flames) from immediate area. Do not touch or walk through spilled material. Stop leak if you can do it without risk. Prevent entry into waterways, sewers, basements or confined areas.

6.2. Environmental precautions:

In case of accidental release in the environment avoid that the substance can reach drains, surface water and ground water.

6.3. Methods and materials for containment and cleaning up:

For containment: Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in a clean and dry container for disposal. Large spill: Dike far ahead of liquid spill for later disposal. Water spray may reduce vapor, but may not prevent ignition in closed spaces.

Methods for cleaning up: Use clean, spark-proof tools to collect the absorbed material. Clean the contaminated area with water.

SECTION 7. Handling and storage

7.1. Precautions for safe handling:


General measures: The substance is used under strictly controlled conditions. Handle away from sparkles and flames - sources of ignition

Hygiene measures: Do not eat, drink and smoke in the working areas. Wash hands after handling the substance. Remove contaminated clothing and protective equipment before entering eating areas

7.2. Conditions for safe storage, including any incompatibilities:

Storage conditions: Store in stainless steel or carbon steel containers. Keep containers closed when not in use. Fixed containers where these substances are stored must have pressure relief devices and flame arresters. Store separately from strong acids and bases.

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Incompatible materials: Strong oxidizers

SECTION 8. Exposure controls/personal protection

8.1. Control parameters:

Name	CAS No.	VLE	
		PPT	CT o P
Butyl acetate	123-86-4	150 ppm	200 ppm

8.2. Appropriate engineering controls

Emergency eyewash stations and safety showers must be available in the immediate vicinity of any potential exposure area. Proper grounding procedures must be followed to prevent static electricity. Gas detectors should be used when flammable gases/vapors may be released. Use explosion-proof equipment. Ensure adequate ventilation, especially in confined areas.

8.3. Individual protection measures, such as personal protective equipment (PPE)

Hand protection: Chemical gloves: Butyl rubber, neoprene, nitrile. According to EN 374: level 3. Glove thickness of approximately 0.3 mm and penetration time of approximately 60 minutes.

Eye protection: Safety glasses that fit snugly around the eyes. In addition to glasses, wear a face shield if there is a likelihood of splashes to the face.

Skin and body protection: If skin contact is possible, wear protective clothing including gloves, boots, and head and face protection.


Respiratory protection: A full-face respirator with an organic vapor cartridge is recommended. In case of inadequate ventilation, oxygen-deficient atmosphere, or where exposure levels are unknown, use SCBA.

Additional information: The selection of appropriate personal protective equipment should be based on an assessment of the performance characteristics of the protective equipment in relation to the task(s) to be performed, the conditions present, the duration of use, and the hazards and/or potential hazards that may arise during use.

SECTION 9. Physicals and chemicals properties

Physical state	Liquid
Colour	Colorless
Odour	Fruity
Melting point/freezing point	<-90°C
Boiling point	126 °C
Flammability	No data available
Lower flammability limit	1.2%
Upper flammability limit	7.5%

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Flash point	27°C @1,013 hPa (760 mm Hg)
Auto-ignition temperature	415 °C
Decomposition temperature	Not determined
pH	6.2
Kinematic viscosity	0.83 mPa.s @ 25°C
Solubility	5.3 g/l @ 20°C, in water
Partition coefficient n-octanol/water (log value)	2.3
Vapour pressure	1.12 kPa @ 20°C
Density	0.8820 g/cm ³
Relative vapour density	4.0 (aire=1) @ 20°C

SECTION 10. Stability and reactivity

10.1. Reactivity:

Strong oxidizers.

10.2. Chemical stability:

Stable under recommended handling and storage conditions.

10.3. Possibility of hazardous reactions:

Hazardous polymerization will not occur.

10.4. Conditions to avoid:

Direct sunlight, extremely low or high temperatures, heat, hot surfaces, sparks, exposed flames, incompatible materials, and other ignition sources.

10.5. Incompatible materials:

Strong oxidizers.

10.6. Hazardous decompositions products:

Carbon oxides, (CO, CO₂). Toxic or irritating fumes.

SECTION 11. Toxicological information


11.1. Information on the likely routes of exposure

Inhalation:	Cough, headache, dizziness.
Skin contact:	Dryness.
Eye contact:	Irritations and pain.
Ingestion:	Nausea.

11.2. Symptoms related to the physical, chemical and toxicological characteristics:

Skin corrosion/Irritation:	Not classifiable.
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Serious eye damage/irritation:	Not classifiable.
Respiratory or skin sensitization:	Not classifiable.
Symptoms/injuries after skin contact:	The substance degrades the skin, which can causes dryness or cracking.
Symptoms/injuries after ingestion:	Information not available.
Symptoms/injuries after inhalation:	The substance irritates the respiratory tract and may have effects on the central nervous system. Exposure well above the OEL could cause a decrease in consciousness.

11.3. Delayed and immediate effects and also chronic effects from short-and term exposure:

Germ cell mutagenicity:	Its classification is not possible.
Carcinogenicity:	Its classification is not possible.
Teratogenicity:	Its classification is not possible.
Reproductive toxicity:	Its classification is not possible.
Specific target organ toxicity (single exposure):	Classified, it may cause drowsiness or dizziness. Exposure route: Inhalation. Affected organs: Central Nervous System.
Specific target organ toxicity (repeated exposure):	Its classification is not possible.

11.4. Numerical measure of toxicity (such as acute toxicity estimates):

LD₅₀ and LC₅₀ data:


Butyl Acetate (123-86-4)	
Acute oral toxicity	LD ₅₀ Oral Rat: 10760 mg/kg
Acute inhalation toxicity	LC ₅₀ Inhalation Rat= 0.74 mg/L.
Acute dermal toxicity	LD ₅₀ dermal rabbit > 16ml/kg

SECTION 12. Ecological information

12.1. Toxicity:

Butyl Acetate (123-86-4)	
Short-term toxicity to fish	LC ₅₀ 18 mg/l t=96 h, specie: Pimephales promelas.
Short-term toxicity to aquatic invertebrates	EC ₅₀ 44 mg / L, 48 h (Bringmann)
Long-term toxicity to aquatic invertebrates	The chronic value for butyl acetate was estimated at 26 mg/L.

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Toxicity to microorganisms	EC₅₀ 3536 mg/L t=40h, specie: Tetrahymena pyriformis.
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12.2. Persistence and degradability:

According to column 2 of Annex IX of REACH, it is not necessary to carry out studies on the biodegradability of the substance in water, sediments, and soil, as the substance is readily biodegradable.

12.3. Bioaccumulative potential:

According to column 2 of Annex IX, it is not necessary to carry out the study if the substance has a low potential for bioaccumulation. The log Kow of 2.3 for n-butyl acetate indicates a low potential for bioaccumulation.

12.4. Mobility in soil:

The low Log Koc value indicates that the potential for adsorption to soil and sediment is expected to be low.

12.5. Other adverse effects:

No data available.

SECTION 13. disposal considerations

13.1. Disposal methods:

Waste disposal recommendations:

For disposal of this product, contact an authorized professional service. Containers may still be hazardous even when empty. Continue to take all necessary precautions. Handle empty containers carefully as residual vapors are flammable.

SECTION 14. Transport information

14.1.	<u>UN Number:</u>	1123
14.2.	<u>UN Proper Shipping Name:</u>	Butyl acetate
14.3.	<u>Transport hazard class(es):</u>	3
14.4.	<u>Packing group:</u>	II
14.5.	<u>Environmental hazard:</u>	No data available
14.6.	<u>Special precautions for use:</u>	No data available
14.7.	<u>Transport in bulk according to IMO instruments:</u>	Butyl acetate


SECTION 15. Regulatory information

Document Code: I-SEG-001-P02

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15.1. Safety, health environmental regulation specific for the product in question

The North American Emergency Response Guide for this product is No. 129.

SECTION 16. Other information

NFPA 704




The information is considered correct but is not exhaustive and will be used solely as guidance, which is based on current knowledge of the chemical or mixture and is applicable to appropriate safety precautions for the product.

Monfel Industries does not present this document as an explicit or implied warranty of the safe use of this material. It is the user's responsibility to use this material safely, and must comply with all applicable safety, health and environmental laws and regulations. The information contained in this document is accurate in accordance with our experience, but it is the user's responsibility to adapt and extend it in accordance with its use, handling, process, storage and final disposal, in compliance with applicable laws and regulations. The user should consider that the above-mentioned hazards are not the only ones that exist and that the effects can be aggravated by the presence of other materials.

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DOCUMENT CHANGE HISTORY

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Version	Date	Change history	Reason for change	Monfel signature
1.0	02/17/22	New document	Document publication	SCGM 021722
1.0	02/18/26	Format change	Adaption to ISO9001:2015	SCGM 021826