



Safety Data Sheet

n-Butvl acetate

Section 1: Chemical Product and Company Identification

Product Name: n-Butyl acetate

Catalog Codes: 261

CAS#: 123-86-4

RTECS: No data available

Synonym: Acetic acid n-butyl ester, Butyl ethanoate

Chemical Name: n-Butyl acetate

Chemical Formula: C₆H₁₂O₂

Contact Information:

Email: info@drm-chem.com

Address: #7, Afshar javan Alley, Sohrevardi St, Tehran, Iran

post code: 1551818111

Tehran Sales: +98 21 88177760

Order Online: Drm-chem.com

Section 2: Composition and Information on Ingredients

Com	oosition:
	505111011.

Name	CAS #	% by Weight
n-Butyl acetate	123-86-4	100
Toxicological Data on Ingredients: LD50 Oral - Rat - female - 10.760 mg/kg.		

Section 3: Hazards Identification

Classification of the substance or mixture Classification according to Regulation (EC) No 1272/2008 Flammable liquids (Category 3), H226 Specific target organ toxicity - single exposure (Category 3), Central nervous system, H336 For the full text of the H-Statements mentioned in this Section, see Section 16.

Label elements

Labelling according Regulation (EC) No 1272/2008

Pictogram



Signal Hazard statement(s)	word Warning	
H226	Flammable liquid and vapor.	
H336	May cause drowsiness or dizziness.	
Precautionary statement(s)		
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.	
P233	Keep container tightly closed.	
P240	Ground and bond container and receiving equipment.	
P241	Use explosion-proof electrical/ventilating/lighting/equipment.	
P242	Use non-sparking tools.	
P243	Take action to prevent static discharges	
Supplemental Hazard information (EU)		
EUH066	Repeated exposure may cause skin dryness or cracking.	

Reduced Labeling (<= 125 ml)

Pictogram



Signal word	Warning
Hazard statement(s)	none
Precautionary statement(s)	none

Supplemental Hazard information (EU)EUH066Repeated exposure may cause skin dryness or cracking.

Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Section 4: First Aid Measures

Description of first-aid measures General advice

Show this material safety data sheet to the doctor in attendance.

If inhaled

After inhalation: fresh air. Call in physician.

In case of skin contact

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower.

In case of eye contact

After eye contact: rinse out with plenty of water. Remove contact lenses.

If swallowed

After swallowing: caution if victim vomits. Risk of aspiration! Keep airways free. Pulmonary failure possible after aspiration of vomit. Call a physician immediately.

Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 3 and/or in section 11

Indication of any immediate medical attention and special treatment needed No data available

Section 5: Firefighting measures

Extinguishing media Suitable extinguishing media

Carbon dioxide (CO2) Foam Dry powder

Unsuitable extinguishing media

For this substance/mixture no limitations of extinguishing agents are given.

Special hazards arising from the substance or mixture

Carbon oxides

Combustible.

Vapors are heavier than air and may spread along floors.

Forms explosive mixtures with air at elevated temperatures.

Development of hazardous combustion gases or vapours possible in the event of fire.

Advice for firefighters

In the event of fire, wear self-contained breathing apparatus.

Further information

Remove container from danger zone and cool with water. Prevent fire extinguishing water from contaminating surface water or the ground water system.

Section 6: Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Do not breathe vapors, aerosols. Avoid substance contact. Ensure adequate ventilation. Keep away from heat and sources of ignition. Evacuate the danger area, observe emergency procedures, consult an expert.

For personal protection see section 8.

Environmental precautions

Do not let product enter drains. Risk of explosion.

Methods and materials for containment and cleaning up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up with liquid-absorbent material (e.g. Chemizorb ®). Dispose of properly. Clean up affected area.

Reference to other sections

For disposal see section 13.

Section 7: Handling and Storage

Precautions for safe handling

Advice on safe handling

Avoid generation of vapours/aerosols.

Advice on protection against fire and explosion

Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharge.

Hygiene measures

Change contaminated clothing. Preventive skin protection recommended. Wash hands after working with substance.

For precautions see section 3.

Conditions for safe storage, including any incompatibilities Storage conditions

Keep container tightly closed in a dry and well-ventilated place. Keep away from heat and sources of ignition. Recommended storage temperature see product label.

Storage class

Storage class (TRGS 510): 3: Flammable liquids

Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

Section 8: Exposure Controls/Personal Protection

Control parameters

Ingredients with workplace control parameters

Derived No Effect Level (DNEL)

Application Area	Routes of exposure	Health effect	Value
Worker DNEL,	inhalation	Local effects	600 mg/m3
Worker DNEL, acute	inhalation	Systemic effects	600 mg/m3
Worker DNEL, longterm	inhalation	Local effects	300 mg/m3
Worker DNEL, longterm	inhalation	Systemic effects	300 mg/m3
Consumer DNEL, acute	inhalation	Local effects	300 mg/m3
Consumer DNEL, acute	inhalation	Systemic effects	300 mg/m3
Consumer DNEL, acute	inhalation	Local effects	35,7 mg/m3
Consumer DNEL, acute	inhalation	Systemic effects	35,7 mg/m3

Predicted No Effect Concentration (PNEC)

Compartment	Value
Fresh water	0,18 mg/l
Fresh water sediment	0,981 mg/kg
Sea water	0,018 mg/l
Sea sediment	0,0981 mg/kg
Aquatic intermittent release	0,36 mg/l
Sewage treatment plant	35,6 mg/l
Soil	0,0903 mg/kg

Exposure controls

Personal protective equipment

Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses

Skin protection

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: <u>www.kcl.de</u>).

Splash contact Material: Nitrile rubber Minimum layer thickness: 0,4 mm Break through time: 30 min Material tested:Camatril® (KCL 730 / Aldrich Z677442, Size M)

Body Protection

Flame retardant antistatic protective clothing.

Respiratory protection

Recommended Filter type: Filter A (acc. to DIN 3181) for vapours of organic compounds The entrepeneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

Control of environmental exposure

Do not let product enter drains. Risk of explosion.

Section 9: Physical and Chemical Properties

Information on basic physical and chemical properties

a) Appearance b) Odor	Form: liquid Color: colorless fruity
c) Odor Threshold	7 ppm
d) pH	6,2 at 5,3 g/l at 20 °C
e) Melting point/freezing point	Melting point/range: -78 °C
f) Initial boiling point and boiling range	126,2 °C at 1.013 hPa - OECD Test Guideline 103
g) Flash point	27 °C - closed cup - Regulation (EC) No. 440/2008, Annex, A.9

h) Evaporation rate	No data available
i) Flammability (solid, gas)	No data available
j) Upper/lower flammability or explosive limits	Upper explosion limit: 7,6 %(V) Lower explosion limit: 1,7 %(V)
k) Vapor pressure	11,2 hPa at 20 °C - Regulation (EC) No. 440/2008, Annex, A.4
I) Vapor density	4,01 - (Air = 1.0)
m) Density	0,88 g/cm3 at 20 °C - DIN 51757
Relative density	No data available
n) Water solubility	5,3 g/l at 20 °C - OECD Test Guideline 105- soluble
 o) Partition coefficient: n-octanol/ water 	log Pow: 2,3 at 25 °C - OECD Test Guideline 117 - Bioaccumulation is not expected.
p) Autoignition temperature	415 °C at 1.010 hPa - DIN 51794
q) Decomposition temperature No data available	
r) Viscosity	Viscosity, kinematic: 0,83 mm2/s at 20 °C - ASTM D 4450,66 mm2/s at 40 °C - ASTM D 445
	Viscosity, dynamic: 0,73 mPa.s at 20 °C - ASTM D 4450,563 mPa.s at 40 °C
s) Explosive properties	No data available
t) Oxidizing properties	none
Other safety information	
Conductivity	< 0,2 µS/cm
Surface tension	61,3 mN/m at 1g/l at 20 °C - OECD Test Guideline 115
Relative vapor density	4,01 - (Air = 1.0)

Section 10: Stability and Reactivity Data

Reactivity

Vapor/air-mixtures are explosive at intense warming.

Chemical stability

The product is chemically stable under standard ambient conditions (room temperature).

Possibility of hazardous reactions

No data available

Conditions to avoid

Heating.

Incompatible materials

Strong oxidizing agents, Strong reducing agents, Strong bases

Hazardous decomposition products

In the event of fire: see section 5

Section 11: Toxicological Information

Information on toxicological effects Acute toxicity

LD50 Oral - Rat - female - 10.760 mg/kg (OECD Test Guideline 423) Symptoms: Risk of aspiration upon vomiting; Aspiration may cause pulmonary edema and pneumonitis. Inhalation: No data available LD50 Dermal - Rabbit - male and female - 14.112 mg/kg (OECD Test Guideline 402)

Skin corrosion/irritation

Skin - Rabbit Result: No skin irritation - 4 h (OECD Test Guideline 404) Drying-out effect resulting in rough and chapped skin.

Serious eye damage/eye irritation

Eyes - Rabbit Result: No eye irritation (OECD Test Guideline 405)

Respiratory or skin sensitization No data available

Germ cell mutagenicity

Test Type: Ames test Test system: Escherichia coli/Salmonella typhimurium Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471 Result: negative Test Type: Micronucleus test Species: Mouse Cell type: Red blood cells (erythrocytes) Application Route: Oral Method: OECD Test Guideline 474 Result: negative

Carcinogenicity

No data available

Reproductive toxicity

No data available

Specific target organ toxicity - single exposure

May cause drowsiness or dizziness. - Central nervous system

Specific target organ toxicity - repeated exposure No data available

No data available

Aspiration hazard

No data available

Additional Information

Repeated dose toxicity - Rat - male and female - Oral - 13 Weeks - NOAEL (No observed adverse effect level) - 125 mg/kg - LOAEL (Lowest observed adverse effect level) - 500 mg/kg Drowsiness To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. After absorption of large quantities: somnolence Drowsiness narcosis Handle in accordance with good industrial hygiene and safety practice.

Section 12: Ecological Information

Toxicity

Toxicity to fish Toxicity to daphnia and other aquatic invertebrates	flow-through test LC50 - Pimephales promelas (fathead minnow) - 18 mg/l - 96 h (OECD Test Guideline 203) static test EC50 - Daphnia magna (Water flea) - 44 mg/l - 48 h (OECD Test Guideline 202)
Toxicity to algae	static test ErC50 - Pseudokirchneriella subcapitata (green algae) - 397 mg/l - 72 h (OECD Test Guideline 201) Remarks: (in analogy to similar products) The value is given in analogy to the following substances: Isobutyl acetate
Toxicity to bacteria	static test IC50 - Tetrahymena pyriformis - 356 mg/l - 40 h Remarks: (ECHA)

Persistence and degradability

Biodegradability Theoretical oxygen	aerobic - Exposure time 28 d Result: 83 % - Readily biodegradable. (OECD Test Guideline 301D) 2.207 mg/g
	Remarks: (Lit.)
Ratio BOD/ThBOD	7 - 46 %

Remarks: (Lit.)

Bioaccumulative potential

No data available

Mobility in soil

No data available

Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) atlevels of 0.1% or higher.

Other adverse effects

Discharge into the environment must be avoided.

Section 13: Disposal Considerations

Waste treatment methods Product

Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself.

Section 14: Transport Information		
UN number ADR/RID: 1123	IMDG: 1123	IATA: 1123
UN proper shipping name ADR/RID: BUTYL ACETATES IMDG: BUTYL ACETATES IATA: Butyl acetates		
Transport hazard class(es) ADR/RID: 3	IMDG: 3	IATA: 3
Packaging group ADR/RID: III	IMDG: III	IATA: III
Environmental hazards ADR/RID: no	IMDG Marine pollutant: no	IATA: no
Special precautions for user No data available		

Section 15: Regulatory information

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

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

National legislation

Seveso III: Directive 2012/18/EU of the European: FLAMMABLE LIQUIDS Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

Other regulations

Take note of Dir 94/33/EC on the protection of young people at work.

Chemical Safety Assessment

A Chemical Safety Assessment has been carried out for this substance.

Section 16: Other Information

References: Not available

Other Special Considerations: Not available

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