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SAFETY DATA SHEET Butyl acetate

SECTION 1: Identification of the substance/mixture and of the company/undertaking

Date issued 04.06.2014

1.1. Product identifier

Product name Butyl acetate
Chemical name n-butylacetat
Synonyms n-butylacetat

REACH Reg. No. 01-2119485493-29-0000

CAS no. 123-86-4 Index no. 607-025-00-1 Article no. 10000000

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

Use of the substance/preparation For the preparation of paints and as a solvent. General purpose cleaner.

1.3. Details of the supplier of the safety data sheet

Manufacturer

Company name Fred Holmberg & Co AB

Office address Geijersgatan 8
Postal address Box 60056
Postcode S-216 10
City Limhamn
Country Sweden

Tel +46 (0)40 15 79 20 Fax +46 (0)40 16 22 95 E-mail info@holmberg.se

Website http://www.holmberg.se/en/

1.4. Emergency telephone number

Emergency telephone 112 (Europe)

SECTION 2: Hazards identification

2.1. Classification of substance or mixture

Classification according to R10,R66,R67

67/548/EEC or 1999/45/EC

Classification according to STOT SE3;H336; Regulation (EC) No 1272/2008 Flam. Liq. 3;H226;

[CLP/GHS]

2.2. Label elements

Hazard Pictograms (CLP)





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/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 dust/fume/gas/mist/vapours/spray. P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves/protective clothing/eye protection/face protection. 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. P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

P501 Dispose of contents/container to

Supplemental label information

EUH 066 Repeated exposure may cause skin dryness or cracking.

2.3. Other hazards

Other hazards Not known.

SECTION 3: Composition/information on ingredients

3.1. Substances

Substance	Identification	Classification	Contents
n-Butyl acetate	CAS no.: 123-86-4	R10	100 %
	EC no.: 204-658-1	R66	
	Index no.: 607-025-00-1	R67	
	Synonyms: Butyl acetate	Flam. Liq. 3; H226	
		STOT SE 3; H336	

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation Move the exposed person to fresh air at once. Place unconscious person on

the side in the recovery position and ensure breathing. If respiratory problems, artificial respiration/oxygen. Get medical attention if any discomfort continues.

Skin contact

Remove contaminated clothes and rinse skin thoroughly with water.

Eye contact

Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart. Get medical attention if any

discomfort continues.

Ingestion NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK FLUIDS! Do

not induce vomiting. Rinse mouth with water. Get medical attention if any

discomfort continues.

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

Information for health personnel Treat Symptomatically. Do not give victim anything to drink if he is

unconscious.

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

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water

fog.

5.2. Special hazards arising from the substance or mixture

Fire and explosion hazards FLAMMABLE. Solvent vapours may form explosive mixtures with air.

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Hazardous combustion products

Fire creates: Carbon monoxide (CO). Carbon dioxide (CO2).

5.3. Advice for firefighters

Fire fighting procedures

No specific fire fighting procedure given.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal protection measures Ensure suitable personal protection (including respiratory protection) during

removal of spillages in a confined area. Ventilate well. Stop leak if possible without risk. Avoid contact with skin and eyes. Do not breathe vapour. For

personal protection, see section 8.

6.2. Environmental precautions

Environmental precautionary measures

Avoid discharge into drains, water courses or onto the ground. Contact local authorities in case of spillage to drain/aquatic environment.

6.3. Methods and material for containment and cleaning up

Cleaning method Dam and absorb spillages with sand, earth or other non-combustible material.

Collect spillage in containers, seal securely and deliver for disposal according

to local regulations.

6.4. Reference to other sections

Other instructions Information om exponering / personligt skydd och avfallshantering finns i

avsnitt 8 och 13. (Information regarding exposure / personal protection and

disposal, see section 8 and 13).

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Handling Keep away from heat, sparks and open flame. Take precautionary measures

against static discharges. Mechanical ventilation may be required.

Protective Safety Measures

Advice on general occupational

Provide easy access to water supply and eye wash facilities.

hygiene

7.2. Conditions for safe storage, including any incompatibilities

Storage Keep containers tightly closed. Keep away from heat, sparks and open flame.

Ground container and transfer equipment to eliminate static electric sparks. Store in a cool and well-ventilated place. Keep separate from food, feedstuffs, fertilisers and other sensitive material. Flammable/combustible - Keep away

from oxidisers, heat and flames.

7.3. Specific end use(s)

Specific use(s) Not entered.

SECTION 8: Exposure controls/personal protection

Contents

8.1. Control parameters

Method of testing

Occupational Exposure limit values

•			
Substance	Identification	Value	TWA Year
n-Butyl acetate	CAS no.: 123-86-4	8-hour TWA: 150 ppm	2011
	EC no.: 204-658-1	8-hour TWA: 724 mg/m3	
	Index no.: 607-025-00-1	15 min.: 200 ppm	
	Synonyms: Butyl acetate	15 min.: 966 mg/m3	
Other Information about threshold Norske grenseverdier; FOR-2011-12-06-1358 vedlegg 1.			
limit values	Butylacetat (alle isomerer): 8 t.: 75ppm, 355 mg/m3 (2003)		
DNEL / PNEC			

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DNEL Group: Worker

DNEL

DNEL

PNEC

Exposure route: Inhalation

Exposure frequency: Long term (repeated)

Type of effect: Systemic effect

Value: 48 mg/m3 Group: Worker

Exposure route: Dermal

Exposure frequency: Long term (repeated)

Type of effect: Systemic effect

Value: 7 mg/kg bw/day

DNEL Group: Consumer

Exposure route: Dermal

Exposure frequency: Long term (repeated)

Type of effect: Systemic effect Value: 3,4 mg/kg bw/day

DNEL Group: Consumer

Exposure route: Inhalation

Exposure frequency: Long term (repeated)

Type of effect: Systemic effect

Value: 12 mg/m3 Group: Consumer Exposure route: Oral

Exposure frequency: Long term (repeated)

Type of effect: Systemic effect Value: 3,4 mg/kg bw/day

PNEC Exposure route: Water

Value: 0,18 mg/l Remarks: freshwater

PNEC Exposure route: Water Value: 0,018 mg/l

Remarks: marine water

PNEC Exposure route: Water Value: 0,36 mg/l

Remarks: intermittent releases **PNEC** Exposure route: Sediment Value: 0,981 mg/kg dw

Remarks: (fresh water) Exposure route: Sediment

Value: 0,0981 mg/kg dw Remarks: (marine water)

PNEC Exposure route: Soil Value: 0,0903 mg/kg dw

PNEC Exposure route: Sewage treatment plant STP

Value: 35,6 mg/l

8.2. Exposure controls

Occupational exposure limits Provide adequate ventilation. Observe Occupational Exposure Limits and

minimise the risk of inhalation of vapours. Protective gloves and goggles are

recommended. Provide eyewash, quick drench.

Safety signs







Respiratory protection

Respiratory protection

Respiratory protection must be used if air contamination exceeds acceptable

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level. Use respiratory equipment with gas filter, type A2.

Hand protection

Hand protection Use protective gloves. Chemical resistant gloves required for prolonged or

repeated contact. Gloves of nitrile rubber, PVA or Viton are recommended.

Eye / face protection

Eye protection Use safety goggles or face shield in case of splash risk.

Skin protection

Skin protection (except hands) Wear appropriate clothing to prevent any possibility of skin contact.

Hygiene / Environmental

Specific hygiene measures Wash hands after contact.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Colour Colourless.

Odour Characteristic.

Comments, pH (as supplied) Not relevant.

Melting point/melting range Value: < -98 °C

Boiling point / boiling range Value: 126 °C

Comments, Boiling point / boiling @ 101,3 kPa

range

Flash point Value: 27 °C

Method of testing: EU Method A.9 (closed cup)

Explosion limit Value: 1,35-9 % Vapour pressure Value: 15 kPa

Test temperature: 20 °C

Vapour density

Value: 4,0

Specific gravity

Value: 880 kg/m3

Test temperature: 20 °C

Soluble in: Organic solvents.

Solubility description Soluble in: Organ 5,3 g/cl @ 20 °C

Partition coefficient: n-octanol/water Value: 2,3

Test temperature: 20 °C

Spontaneous combustability

Value: 415 °C

Viscosity

Value: 0,381 mPas

Test temperature: 20 °C

9.2. Other information

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity Heating may cause a fire.

10.2. Chemical stability

Stability Stable under the prescribed storage conditions.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions Not known.

10.4. Conditions to avoid

Conditions to avoid Avoid heat, flames and other sources of ignition.

10.5. Incompatible materials

Materials to avoid Avoid contact with oxidising agents (e.g. nitric acid, peroxides and

chromates). Avoid alkalis, strong acids and heat. Flammable/combustible

material.

10.6. Hazardous decomposition products

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Hazardous decomposition products

Fire creates: Carbon monoxide (CO). Carbon dioxide (CO2).

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological Information:

Other toxicological data Acute Toxicity (Oral LD50): mg/kg (oral rat) 10760

Acute Toxicity (Dermal LD50): mg/kg Rabbit > 14000 Acute Toxicity (Inhalation LC50): Rat 4h 9,6 mg/l

Potential acute effects

In high concentrations, vapours are narcotic and may cause headache,

fatigue, dizziness and nausea. Icke klassificerad som aspirationstoxisk (Not

classified as asp. tox.)

Skin contact Prolonged or frequent contact may cause redness, itching, eczema and skin

cracking. Defats the skin.

Eye contact May cause temporary eye irritation.

Ingestion Ingestion of large amounts may cause unconsciousness. However, ingestion

may cause nausea, headache, dizziness and intoxication. Ingestion may cause irritation of the gastrointestinal tract, vomiting and diarrhoea. May cause

irritation to the mouth and throat.

Delayed effects / repeated exposure

Sensitisation Not known.
Chronic effects None known.

Carcinogenic, Mutagenic or Reprotoxic
Carcinogenicity

None.

Mutagenicity None.

Teratogenic properties None.

Reproductive toxicity None.

SECTION 12: Ecological information

12.1. Toxicity

Acute aquatic, fish Value: 18 mg/l

Method of testing: LC50

Fish, species: Pimephales promelas

Duration: 96h

Acute aquatic, algae Value: 674,7 mg/l

Method of testing: IC50

Algae, species: Scenedesmus subspicatus

Duration: 72h

Acute aquatic, Daphnia Value: 44 mg/l

Method of testing: EC50 Daphnia, species: D. sp

Duration: 48h

Other ecotoxicological information, Long-term study. NOEC (Daphnia magna): 23 mg/l

crustaceans Exposure time: 21 days

12.2. Persistence and degradability

Degradation half life Readily biodegradable (OECD 301D, 98% after 28 days).

Comments, BOD BOD5/COD: >0,5

12.3. Bioaccumulative potential

Bioaccumulative potential Will not bio-accumulate.

Bioconcentration factor (BCF) Value: 15

Method of testing: BCF

Comments to bioaccumulation Log Kow: 1,81

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12.4. Mobility in soil

Mobility The product is water soluble and may spread in water systems.

Surface tension Value: 61,3 mN/m @ 20°C

12.5. Results of PBT and vPvB assessment

PBT assessment results This substance is not classified as PBT or vPvB.

12.6. Other adverse effects

Other adverse effects / Remarks None known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Specify the appropriate methods of

disposal

Confirm disposal procedures with environmental engineer and local regulations. Absorb in vermiculite or dry sand and dispose of at a licenced hazardous

Absorb in verificance of dry sand and dispose of at a necrocal nazardods

waste collection point. Liquid components can be disposed of by incineration.

Product classified as hazardous

waste

Packaging classified as hazardous

waste

Yes Yes

SECTION 14: Transport information

14.1. UN number

ADR	1123
RID	1123
IMDG	1123
ICAO/IATA	1123

14.2. UN proper shipping name

ADR BUTYL ACETATES
RID BUTYL ACETATES
IMDG BUTYL ACETATES
ICAO/IATA BUTYL ACETATES

14.3. Transport hazard class(es)

 ADR
 3

 Hazard no.
 30

 RID
 3

 ADN
 33

 IMDG
 3

 ICAO/IATA
 3

14.4. Packing group

ADR III RID III IMDG III ICAO/IATA III

14.5. Environmental hazards

Comments Not relevant.

14.6. Special precautions for user

EmS F-E, S-D

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

SECTION 15: Regulatory information

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

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Other Label Information Regulation (EC) No 1272/2008 of the European Parliament and of the Council

> of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC,

and amending Regulation (EC) No 1907/2006 with amendments.

Legislation and regulations Dangerous Substance Directive 67/548/EEC.

The Chemicals (Hazard Information and Packaging for Supply) Regulations

2009 (S.I 2009 No. 716).

The List of Wastes (England) (Amendment) Regulations 2005. (SI 2005 No.

895). Avfallsförordningen (2011:927).

15.2. Chemical safety assessment

SECTION 16: Other information

R-phrases

R66 Repeated exposure may cause skin dryness or cracking.

R67 Vapours may cause drowsiness and dizziness.

S-phrases S2 Keep out of the reach of children.

S7 Keep container tightly closed.

S16 Keep away from sources of ignition - No smoking.

S25 Avoid contact with eyes.

Classification according to

Regulation (EC) No 1272/2008

[CLP/GHS]

List of relevant R-phrases (under

headings 2 and 3).

R67 Vapours may cause drowsiness and dizziness.

R10 Flammable.

Flam. Liq. 3; H226;

STOT SE3; H336;

R66 Repeated exposure may cause skin dryness or cracking.

List of relevant H-phrases (Section

2 and 3).

H226 Flammable liquid and vapour.

H336 May cause drowsiness or dizziness. Fred Holmberg & Co AB

Responsible for safety data sheet