

according to Regulation (EC) No 1907/2006

n-Butyl acetate > 98 % (acetic acid butylester) pure

Revision date: 13.07.2023

Product code: 14333

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

1.1. Product identifier

n-Butyl acetate > 98 % (acetic acid butylester) pure

REACH Registration Number:	01-2119485493-29-XXXX
CAS No:	123-86-4
Index No:	607-025-00-1
EC No:	204-658-1

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

Use of the substance/mixture

Laboratory chemicals Industrial uses: Uses of substances as such or in preparations at industrial sites Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

Uses advised against

Do not use for private purposes (household).

.3. Details of the supplier of the safety data sheet
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1.3. Details of the supplier of the saf	ety data sheet	
Company name:	AnalytiChem GmbH	
Street:	Stempelstraße 6	
Place:	D-47167 Duisburg	
Telephone:	0203/5194-0	Telefax:0203/5194-290
E-mail:	info@analytichem.de	
Contact person:	Abteilung Produktsicherheit	Telephone: 0203/5194-107/117
E-mail:	produktsicherheit@analytichem.de	
Internet:	www.analytichem.de	
Responsible Department:	Abteilung Produktsicherheit	
1.4. Emergency telephone	For Hazardous Materials [or Dangerous (Goods] Incidents Spill, Leak, Fire,
number:	Exposure, or Accident Call CHEMTREC 1-800-424-9300 Outside USA and Canac accepted)	

Further Information

No data available

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008 Flam. Liq. 3; H226

STOT SE 3: H336

Full text of hazard statements: see SECTION 16.

2.2. Label elements

Regulation (EC) No 1272/2008

Signal word:

Pictograms:



Hazard statements

H226 H336 Flammable liquid and vapour. 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.
P233	Keep container tightly closed.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P312	Call a POISON CENTER/doctor if you feel unwell.
P403+P235	Store in a well-ventilated place. Keep cool.

Special labelling of certain mixtures

EUH066 Repeated exposure may cause skin dryness or cracking.

2.3. Other hazards

No data available

SECTION 3: Composition/information on ingredients

3.1. Substances

Sum formula:	CH3COO(CH2)3CH3	
Molecular weight:	116,16 g/mol	

Hazardous components

CAS No	Chemical name			Quantity	
	EC No	EC No Index No REACH No			
	Classification (Regulation (EC) No 1272/2008)				
123-86-4	n-butyl acetate			100 %	
	204-658-1	607-025-00-1	01-2119485493-29-XXXX		
Flam. Liq. 3, STOT SE 3; H226 H336 EUH066					

Full text of H and EUH statements: see section 16.

Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
	Specific Conc. Limits, M-factors and ATE		
123-86-4	204-658-1	n-butyl acetate	100 %
inhalation: LC50 = > 6,6 mg/l (vapours); oral: LD50 = 14130 mg/kg			

Further Information

This product does not contain substances of very high concern according to Regulation (EC) No 1907/2006 (REACH), Article 57 above the respective regulatory concentration limit of = 0.1 % (w/w).

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

No data available

After inhalation

Provide fresh air. Call a physician immediately.

After contact with skin

Wash immediately with: Water

Take off immediately all contaminated clothing and wash it before reuse.

After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water. Remove contact lenses, if present and easy to do. Continue rinsing.



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After ingestion

Observe risk of aspiration if vomiting occurs. Call a physician immediately.

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

Vapours may cause drowsiness and dizziness. Anaesthetic state Has degreasing effect on the skin.

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

Give sodium sulfate as laxative (1 tablespoon in 1 glass of water).

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Carbon dioxide (CO2) Foam Extinguishing powder

Unsuitable extinguishing media

no restriction

5.2. Special hazards arising from the substance or mixture

Combustible liquids Hazardous combustion products In case of fire may be liberated: Carbon dioxide (CO2) Carbon monoxide In case of warming: Vapours are heavier than air, spread along floors and form explosive mixtures with air. Heating causes rise in pressure with risk of bursting.

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus. In case of fire and/or explosion do not breathe fumes. Avoid contact with skin, eyes and clothes.

Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Move undamaged containers from immediate hazard area if it can be done safely. Use water spray jet to protect personnel and to cool endangered containers.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General advice

Keep away from sources of ignition - No smoking.

This material can be ignited by heat, sparks, flames, or other sources of ignition (e.g., static electricity, pilot lights, mechanical/electrical equipment, and electronic devices such as cell phones, computers, calculators, and pagers which have not been certified as intrinsically safe). Take action to prevent static discharges.

For non-emergency personnel

Provide adequate ventilation. Use personal protection equipment. Avoid contact with skin, eyes and clothes. Remove persons to safety. Emergency procedures

Do not breathe dust/fume/gas/mist/vapours/spray.

For emergency responders

Precautionary statements For emergency responders : Personal protection equipment: see section 8



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6.2. Environmental precautions

Do not allow to enter into surface water or drains.

The vapour of the product is heavier than air and may accumulate below ground level, in pits, channels and basements in higher concentration.

Danger of explosion

6.3. Methods and material for containment and cleaning up

For containment

Cover drains.

Prevent spread over a wide area (e.g. by containment or oil barriers). Collect in closed and suitable containers for disposal.

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

For cleaning up

Clean contaminated articles and floor according to the environmental legislation.

Other information

Provide adequate ventilation. Do not breathe dust/fume/gas/mist/vapours/spray. Wear breathing apparatus if exposed to vapours/dusts/aerosols.

6.4. Reference to other sections

Safe handling: see section 7 Personal protection equipment: see section 8 Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Read label before use. Handle and open container with care. When using do not eat, drink, smoke, sniff. Keep container tightly closed. Use personal protection equipment. Use extractor hood (laboratory). Do not breathe vapour/aerosol. Provide adequate ventilation.

Advice on protection against fire and explosion

Take action to prevent static discharges. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Advice on general occupational hygiene

Keep away from food, drink and animal feedingstuffs.

Wash hands and face before breaks and after work and take a shower if necessary.

When using do not eat or drink.

Avoid: aerosol or mist formation Do not breathe vapour/aerosol.

Further information on handling

Take off immediately all contaminated clothing and wash it before reuse. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. If handled uncovered, arrangements with local exhaust ventilation have to be used.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed in a cool, well-ventilated place. Store in a cool dry place. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Unsuitable container/equipment material: Light metal

Further information on storage conditions

Protect from sunlight. minimum storage temperature +5°C maximum storage temperature +30°C



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7.3. Specific end use(s)

Laboratory chemicals

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

CAS No	Substance	ppm	mg/m³	fib/cm³	Category	Origin
123-86-4	n-Butyl acetate	50	241		TWA (8 h)	
		150	723		STEL (15 min)	

DNEL/DMEL values

CAS No	Substance				
DNEL type Exposure route Effect Value					
123-86-4	n-butyl acetate				
Worker DNEL,	long-term	inhalation	systemic	300 mg/m ³	
Worker DNEL,	acute	inhalation	systemic	600 mg/m³	
Worker DNEL,	long-term	inhalation	local	300 mg/m ³	
Worker DNEL,	acute	inhalation	local	600 mg/m³	
Worker DNEL,	long-term	dermal	systemic	11 mg/kg bw/day	
Worker DNEL,	acute	dermal	systemic	11 mg/kg bw/day	
Consumer DN	EL, long-term	inhalation	systemic	35,7 mg/m³	
Consumer DN	EL, acute	inhalation	systemic	300 mg/m³	
Consumer DN	EL, long-term	inhalation	local	35,7 mg/m³	
Consumer DN	EL, acute	inhalation	local	300 mg/m³	
Consumer DN	EL, long-term	dermal	systemic	6 mg/kg bw/day	
Consumer DN	EL, acute	dermal	systemic	6 mg/kg bw/day	
Consumer DN	EL, long-term	oral	systemic	2 mg/kg bw/day	
Consumer DN	EL, acute	oral	systemic	2 mg/kg bw/day	

PNEC values

CAS No	Substance		
Environment	Environmental compartment Value		
123-86-4	n-butyl acetate		
Freshwater		0,18 mg/l	
Freshwater (intermittent releases) 0,36 mg/l			
Marine wate	larine water 0,018 mg/l		
Freshwater sediment 0,981 mg/kg			
Marine sediment 0,098 mg/kg			
Micro-organisms in sewage treatment plants (STP)		35,6 mg/l	
Soil		0,09 mg/kg	

8.2. Exposure controls

Appropriate engineering controls

Technical measures and the application of suitable work processes have priority over personal protection equipment.



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If handled uncovered, arrangements with local exhaust ventilation have to be used.

Individual protection measures, such as personal protective equipment

Eye/face protection

goggles Face protection umbrella

Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Protective gloves are recommended Company KCL GmbH, D-36124 Eichenzell, email: vertrieb@kcl.de With specification (test according to EN374):

By long-term hand contact Wearing time with permanent contact : No data available

By short-term hand contact Trade name/designation KCL 897 Butoject® Suitable material: Butyl caoutchouc (butyl rubber) 0,3 mm Wearing time with occasional contact (splashes): > 60 min

The breakthrough times stated above were determined by KCL in laboratory tests acc. to EN374 with samples of the recommended glove types. 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: www.kcl.de).

Skin protection

Wear fire resistant or flame retardant clothing. Take off immediately all contaminated clothing and wash it before reuse. Wear suitable protective clothing. Take off immediately all contaminated clothing. Wash hands and face before breaks and after work and take a shower if necessary.

Respiratory protection

Wear breathing apparatus if exposed to vapours/dusts/aerosols. Filtering device with filter or ventilator filtering device of type: A

Environmental exposure controls

Do not allow to enter into surface water or drains. Due to danger of explosion, prevent leakage of vapours into cellars, flues and ditches. Danger of explosion

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	Liquid	
Colour:	colourless	
Odour:	fruity	
Odour threshold:	No data available	
Melting point/freezing point:		-90 °C
Boiling point or initial boiling point and		126,2 °C
boiling range:		
Flammability:		No data available
5 5		No data available



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Lower explosion limits:	1,4 vol. %	
Upper explosion limits:	7,5 vol. %	
Flash point:	27 °C	
Auto-ignition temperature:	370 °C	
Decomposition temperature:	No data available	
pH-Value (at 20 °C):	6,2 (5,3 g/l)	
Viscosity / kinematic:	0,83 mm²/s	
(at 20 °C) Water solubility:	5,3 g/L	
(at 20 °C)		
Solubility in other solvents		
No data available		
Dissolution rate:	No data available	
Partition coefficient n-octanol/water:	No data available	
Dispersion stability:	No data available	
Vapour pressure:	15 hPa	
(at 20 °C)		
Vapour pressure:	63 hPa	
(at 50 °C)	0,88 g/cm ³	
Density (at 20 °C): Bulk density:	No data available	
Relative vapour density:	No data available	
Particle characteristics:	No data available	
9.2. Other information		
 Explosive properties In case of warming: Vapours are heavier than air, spread along floors Sustaining combustion: Self-ignition temperature Solid: Gas: Oxidizing properties No data available Other safety characteristics Evaporation rate: Solvent separation test: Solvent content: 	s and form explosive mixtures with air. Sustaining combustion No data available No data available No data available No data available 100%	
Solid content:	No data available	
Sublimation point:	No data available	
Softening point:	No data available	
Pour point:	No data available	
	No data available	
Viscosity / dynamic:	0,73 mPa·s	
(at 20 °C)		
Flow time:	No data available	
Further Information		
No data available		
SECTION 10: Stability and reactivity		

10.1. Reactivity

In case of warming:



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Vapours may form explosive mixtures with air.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

Oxidising agent Alkali metals

10.4. Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

10.5. Incompatible materials

Plastic articles

10.6. Hazardous decomposition products

SECTION 5: Firefighting measures

Further information

No data available

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Toxicocinetics, metabolism and distribution

No data available

Acute toxicity

Based on available data, the classification criteria are not met.

CAS No	Chemical name					
	Exposure route	Dose		Species	Source	Method
123-86-4	n-butyl acetate					
	oral	LD50 mg/kg	14130	Rat	Publication (1954)	acute oral toxicity test
	inhalation (4 h) vapour	LC50 mg/l	> 6,6	Rat	Study report (1988)	OECD Guideline 403

Irritation and corrosivity

Based on available data, the classification criteria are not met.

Sensitising effects

Based on available data, the classification criteria are not met.

Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

STOT-single exposure

May cause drowsiness or dizziness. (n-butyl acetate)

STOT-repeated exposure

Repeated exposure may cause skin dryness or cracking.

Aspiration hazard

Based on available data, the classification criteria are not met.

Information on likely routes of exposure

No data available

Specific effects in experiment on an animal

No data available

Additional information on tests

No data available



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Practical experience No data available

11.2. Information on other hazards

Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

Other information

Pulmonary oedema Pneumonia Observe risk of aspiration if vomiting occurs. Repeated exposure may cause skin dryness or cracking.

Further information

Vapours may cause drowsiness and dizziness. Anaesthetic state Has degreasing effect on the skin.

SECTION 12: Ecological information

12.1. Toxicity

Based on available data, the classification criteria are not met.

CAS No	Chemical name						
	Aquatic toxicity	Dose		[h] [d]	Species	Source	Method
123-86-4	n-butyl acetate						
	Acute fish toxicity	LC50	18 mg/l	96 h	Pimephales promelas	Publication (1984)	OECD Guideline 203
	Acute crustacea toxicity	EC50	44 mg/l	48 h	Daphnia sp.	Publication (1959)	OECD Guideline 202
	Crustacea toxicity	NOEC mg/l	23,2	21 d	Daphnia magna	Study report (2000)	OECD Guideline 211

12.2. Persistence and degradability

98 %; 28 d; aerob

Readily biodegradable (according to OECD criteria).

12.3. Bioaccumulative potential

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
123-86-4	n-butyl acetate	200

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.

12.6. Endocrine disrupting properties

This substance does not have endocrine disrupting properties with respect to non-target organisms.

12.7. Other adverse effects

Avoid release to the environment.

Further information

Do not allow to enter into surface water or drains.

SECTION 13: Disposal considerations

13.1. Waste treatment methods



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Disposal recommendations

Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste. Send to a physico-chemical treatment facility under observation of official regulations. Do not empty into drains.

Contaminated packaging

Handle contaminated packages in the same way as the substance itself.

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

SECTION 14: Transport information

Land transport (ADR/RID)

<u>14.1. UN number or ID number:</u>	UN 1123	
14.2. UN proper shipping name:	BUTYL ACETATES	
14.3. Transport hazard class(es):	3	
14.4. Packing group:	III	
Hazard label:	3	
Classification code:	F1	
Limited quantity:	5 L	
Excepted quantity:	E1	
Transport category:	3	
Hazard No:	30	
Tunnel restriction code:	D/E	
Inland waterways transport (ADN)		
14.1. UN number or ID number:	UN 1123	
14.2. UN proper shipping name:	BUTYL ACETATES	
14.3. Transport hazard class(es):	3	
14.4. Packing group:	111	
Hazard label:	3	
Classification code:	F1	
Limited quantity:	5 L	
Excepted quantity:	E1	
Marine transport (IMDG)		
<u>14.1. UN number or ID number:</u>	UN 1123	
	0111120	
14.2 LIN proper shipping name:	BUTYL ACETATES	
14.2. UN proper shipping name:	BUTYL ACETATES	
14.3. Transport hazard class(es):	3	
14.3. Transport hazard class(es): 14.4. Packing group:	3 	
14.3. Transport hazard class(es): 14.4. Packing group: Hazard label:	3 3	
14.3. Transport hazard class(es): 14.4. Packing group: Hazard label: Special Provisions:	3 III 3 223	
14.3. Transport hazard class(es): 14.4. Packing group: Hazard label: Special Provisions: Limited quantity:	3 III 3 223 5 L	
14.3. Transport hazard class(es): 14.4. Packing group: Hazard label: Special Provisions: Limited quantity: Excepted quantity:	3 III 3 223 5 L E1	
14.3. Transport hazard class(es): 14.4. Packing group: Hazard label: Special Provisions: Limited quantity: Excepted quantity: EmS:	3 III 3 223 5 L	
14.3. Transport hazard class(es):14.4. Packing group:Hazard label:Special Provisions:Limited quantity:Excepted quantity:EmS:Air transport (ICAO-TI/IATA-DGR)	3 III 3 223 5 L E1 F-E, S-D	
14.3. Transport hazard class(es):14.4. Packing group:Hazard label:Special Provisions:Limited quantity:Excepted quantity:EmS:Air transport (ICAO-TI/IATA-DGR)14.1. UN number or ID number:	3 III 3 223 5 L E1 F-E, S-D UN 1123	
14.3. Transport hazard class(es):14.4. Packing group:Hazard label:Special Provisions:Limited quantity:Excepted quantity:EmS:Air transport (ICAO-TI/IATA-DGR)14.1. UN number or ID number:14.2. UN proper shipping name:	3 III 3 223 5 L E1 F-E, S-D UN 1123 BUTYL ACETATES	
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14.3. Transport hazard class(es):14.4. Packing group:Hazard label:Special Provisions:Limited quantity:Excepted quantity:EmS:Air transport (ICAO-TI/IATA-DGR)14.1. UN number or ID number:14.2. UN proper shipping name:14.3. Transport hazard class(es):14.4. Packing group:	3 III 3 223 5 L E1 F-E, S-D UN 1123 BUTYL ACETATES 3 III	
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14.3. Transport hazard class(es): 14.4. Packing group: Hazard label: Special Provisions: Limited quantity: Excepted quantity: EmS: Air transport (ICAO-TI/IATA-DGR) 14.1. UN number or ID number: 14.2. UN proper shipping name: 14.3. Transport hazard class(es): 14.4. Packing group: Hazard label: Special Provisions:	3 III 3 223 5 L E1 F-E, S-D UN 1123 BUTYL ACETATES 3 III 3 A3	
14.3. Transport hazard class(es): 14.4. Packing group: Hazard label: Special Provisions: Limited quantity: Excepted quantity: EmS: Air transport (ICAO-TI/IATA-DGR) 14.1. UN number or ID number: 14.2. UN proper shipping name: 14.3. Transport hazard class(es): 14.4. Packing group: Hazard label: Special Provisions: Limited quantity Passenger:	3 III 3 223 5 L E1 F-E, S-D UN 1123 BUTYL ACETATES 3 III 3 A3 10 L	
14.3. Transport hazard class(es): 14.4. Packing group: Hazard label: Special Provisions: Limited quantity: Excepted quantity: EmS: Air transport (ICAO-TI/IATA-DGR) 14.1. UN number or ID number: 14.2. UN proper shipping name: 14.3. Transport hazard class(es): 14.4. Packing group: Hazard label: Special Provisions: Limited quantity Passenger: Passenger LQ:	3 III 3 223 5 L E1 F-E, S-D UN 1123 BUTYL ACETATES 3 III 3 A3 10 L Y344	
14.3. Transport hazard class(es): 14.4. Packing group: Hazard label: Special Provisions: Limited quantity: Excepted quantity: EmS: Air transport (ICAO-TI/IATA-DGR) 14.1. UN number or ID number: 14.2. UN proper shipping name: 14.3. Transport hazard class(es): 14.4. Packing group: Hazard label: Special Provisions: Limited quantity Passenger:	3 III 3 223 5 L E1 F-E, S-D UN 1123 BUTYL ACETATES 3 III 3 A3 10 L	355



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IATA-max. quantity - Passenger: IATA-packing instructions - Cargo: IATA-max. quantity - Cargo:	60 L 366 220 L			
14.5. Environmental hazards				
ENVIRONMENTALLY HAZARDOUS:	No			
SECTION 15: Regulatory information				
15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture				
EU regulatory information				
Restrictions on use (REACH, annex XVII): Entry 3, Entry 40 Information according to 2012/18/EU (SEVESO III):	P5c FLAMMABLE LIQUIDS			
National regulatory information				
Employment restrictions:	Observe restrictions to employment for juveniles according work protection guideline' (94/33/EC).	to the 'juvenile		
Water hazard class (D):	1 - slightly hazardous to water			
SECTION 16: Other information				

Changes

This data sheet contains changes from the previous version in section(s): 11,12.

Abbreviations and acronyms

Flam. Liq: Flammable liquid STOT SE: Specific target organ toxicity - single exposure

Relevant H and EUH statements (number and full text)

H226	Flammable liquid and vapour.
H336	May cause drowsiness or dizziness.
EUH066	Repeated exposure may cause skin dryness or cracking.

Further Information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material. The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights.

The receiver of our product is singularly responsible for adhering to existing laws and regulations.