

Creation Date Oct-2013

Revision Date Oct-2018

Revision Number 2

## SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1. Product identification

<b>Product Description:</b>	<b><u>n-Butyl acetate</u></b>
<b>Product Grade:</b>	ER, SQ
<b>Cat No. :</b>	Q14055, Q14057, Q22005, Q22007
<b>Synonyms</b>	Butyl acetate; Acetic acid, butyl ester; 1-Butyl acetate
<b>CAS-No</b>	123-86-4
<b>EC-No.</b>	204-658-1
<b>Molecular Formula</b>	C6H12O2
<b>Reach Registration Number</b>	01-2119485493-29

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

<b>Recommended Use</b>	Laboratory chemicals.
<b>Sector of use</b>	SU3 - Industrial uses: Uses of substances as such or in preparations at industrial sites
<b>Product category</b>	PC21 - Laboratory chemicals
<b>Process categories</b>	PROC15 - Use as a laboratory reagent
<b>Environmental release category</b>	ERC6a - Industrial use resulting in manufacture of another substance (use of intermediates)
<b>Uses advised against</b>	No Information available

### 1.3. Details of the supplier of the safety data sheet

<b>Company</b>	Thermo Fisher Scientific India Pvt. Ltd 403-404, B-wing, Delphi, Hiranandani Business Park, Powai, Mumbai 400076, INDIA.
<b>E-mail address</b>	<a href="mailto:laboratorysolutions@thermofisher.com">laboratorysolutions@thermofisher.com</a>

### 1.4. Emergency telephone number

India Toll Free: 18 00 22 22 30  
Chemtrec US: (800)424-9300  
Chemtrec EU: 001(202)483-7616

## SECTION 2: HAZARDS IDENTIFICATION

### 2.1. Classification of the substance or mixture

#### CLP Classification - Regulation (EC) No 1272/2008

#### Physical hazards

Flammable liquids	Category 3 (H226)
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#### Health hazards

Specific target organ toxicity - (single exposure)	Category 3 (H336)
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#### Environmental hazards

Based on available data, the classification criteria are not met

### 2.2. Label elements

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Signal Word

Warning

## Hazard Statements

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

## Precautionary Statements

- P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking
- P303 + P361 + P353 - IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/shower
- P261 - Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray
- P304 + P340 - IF INHALED: Remove 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

## 2.3. Other hazards

Substance is not considered persistent, bioaccumulative and toxic (PBT) / very persistent and very bioaccumulative (vPvB)

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1. Substances

Component	CAS-No	EC-No.	Weight %	CLP Classification - Regulation (EC) No 1272/2008
n-Butyl acetate	123-86-4	EEC No. 204-658-1	100	Flam. Liq. 3 (H226) STOT SE 3 (H336) EUH066

Reach Registration Number	01-2119485493-29
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Full text of Hazard Statements: see section 16

## SECTION 4: FIRST AID MEASURES

### 4.1. Description of first aid measures

<b>General Advice</b>	If symptoms persist, call a physician.
<b>Eye Contact</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Obtain medical attention.
<b>Skin Contact</b>	Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a physician.
<b>Ingestion</b>	Clean mouth with water and drink afterwards plenty of water.
<b>Inhalation</b>	Move to fresh air. If not breathing, give artificial respiration. Get medical attention if

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symptoms occur.

**Protection of First-aiders** No special precautions required.

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

Breathing difficulties. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting

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

**Notes to Physician** Treat symptomatically. Symptoms may be delayed.

## **SECTION 5: FIREFIGHTING MEASURES**

### **5.1. Extinguishing media**

#### **Suitable Extinguishing Media**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Cool closed containers exposed to fire with water spray.

#### **Extinguishing media which must not be used for safety reasons**

Do not use a solid water stream as it may scatter and spread fire.

### **5.2. Special hazards arising from the substance or mixture**

Flammable. Containers may explode when heated. Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back.

#### **Hazardous Combustion Products**

Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>).

### **5.3. Advice for firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## **SECTION 6: ACCIDENTAL RELEASE MEASURES**

### **6.1. Personal precautions, protective equipment and emergency procedures**

Ensure adequate ventilation. Use personal protective equipment. Remove all sources of ignition. Take precautionary measures against static discharges.

### **6.2. Environmental precautions**

Should not be released into the environment. Do not flush into surface water or sanitary sewer system.

### **6.3. Methods and material for containment and cleaning up**

Soak up with inert absorbent material. Keep in suitable, closed containers for disposal. Remove all sources of ignition. Take precautionary measures against static discharges. Use spark-proof tools and explosion-proof equipment.

### **6.4. Reference to other sections**

Refer to protective measures listed in Sections 8 and 13.

## **SECTION 7: HANDLING AND STORAGE**

### **7.1. Precautions for safe handling**

Wear personal protective equipment. Ensure adequate ventilation. Avoid ingestion and inhalation. Do not get in eyes, on skin, or on

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clothing. Keep away from open flames, hot surfaces and sources of ignition. Use only non-sparking tools. Use explosion-proof equipment. Take precautionary measures against static discharges.

## Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing before re-use. Wash hands before breaks and at the end of workday.

## 7.2. Conditions for safe storage, including any incompatibilities

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat and sources of ignition. Flammables area.

## 7.3. Specific end use(s)

Use in laboratories

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

#### Exposure limits

List source(s): **UK** - EH40/2005 Containing the workplace exposure limits (WELs) for use with the Control of Substances Hazardous to Health Regulations (COSHH) 2002 (as amended). Updated by September 2006 official press release and October 2007 Supplement. **IRE** - 2010 Code of Practice for the Safety, Health and Welfare at Work (Chemical Agents) Regulations 2001. Published by the Health and Safety Authority.

Component	European Union	The United Kingdom	France	Belgium	Spain
n-Butyl acetate		STEL: 200 ppm 15 min STEL: 966 mg/m <sup>3</sup> 15 min TWA: 150 ppm 8 hr TWA: 724 mg/m <sup>3</sup> 8 hr	TWA / VME: 150 ppm (8 heures). TWA / VME: 710 mg/m <sup>3</sup> (8 heures). STEL / VLCT: 200 ppm. STEL / VLCT: 940 mg/m <sup>3</sup> .	TWA: 150 ppm 8 uren TWA: 723 mg/m <sup>3</sup> 8 uren STEL: 200 ppm 15 minuten STEL: 964 mg/m <sup>3</sup> 15 minuten	STEL / VLA-EC: 200 ppm (15 minutos). STEL / VLA-EC: 965 mg/m <sup>3</sup> (15 minutos). TWA / VLA-ED: 150 ppm (8 horas) TWA / VLA-ED: 724 mg/m <sup>3</sup> (8 horas)

Component	Italy	Germany	Portugal	The Netherlands	Finland
n-Butyl acetate		TWA: 62 ppm (8 Stunden). AGW - exposure factor 2 TWA: 300 mg/m <sup>3</sup> (8 Stunden). AGW - exposure factor 2 TWA: 100 ppm (8 Stunden). MAK TWA: 480 mg/m <sup>3</sup> (8 Stunden). MAK Höhepunkt: 200 ppm Höhepunkt: 960 mg/m <sup>3</sup>	STEL: 200 ppm 15 minutos TWA: 150 ppm 8 horas		TWA: 150 ppm 8 tunteina TWA: 720 mg/m <sup>3</sup> 8 tunteina STEL: 200 ppm 15 minuutteina STEL: 960 mg/m <sup>3</sup> 15 minuutteina

Component	Austria	Denmark	Switzerland	Poland	Norway
n-Butyl acetate	MAK-KZW: 100 ppm 15 Minuten MAK-KZW: 480 mg/m <sup>3</sup> 15 Minuten MAK-TMW: 100 ppm 8 Stunden MAK-TMW: 480 mg/m <sup>3</sup> 8 Stunden Ceiling: 100 ppm Ceiling: 480 mg/m <sup>3</sup>	TWA: 150 ppm 8 timer TWA: 710 mg/m <sup>3</sup> 8 timer	STEL: 200 ppm 15 Minuten STEL: 960 mg/m <sup>3</sup> 15 Minuten TWA: 100 ppm 8 Stunden TWA: 480 mg/m <sup>3</sup> 8 Stunden	STEL: 950 mg/m <sup>3</sup> 15 minutach TWA: 200 mg/m <sup>3</sup> 8 godzinach	

Component	Bulgaria	Croatia	Ireland	Cyprus	Czech Republic
n-Butyl acetate	TWA: 710 mg/m <sup>3</sup>	TWA-GVI: 150 ppm 8	TWA: 150 ppm 8 hr.		TWA: 950 mg/m <sup>3</sup> 8

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	STEL : 950 mg/m <sup>3</sup>	satima. TWA-GVI: 724 mg/m <sup>3</sup> 8 satima. STEL-KGVI: 200 ppm 15 minutama. STEL-KGVI: 966 mg/m <sup>3</sup> 15 minutama.	TWA: 710 mg/m <sup>3</sup> 8 hr. STEL: 200 ppm 15 min STEL: 950 mg/m <sup>3</sup> 15 min		hodinách. Ceiling: 1200 mg/m <sup>3</sup>
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Component	Estonia	Gibraltar	Greece	Hungary	Iceland
n-Butyl acetate			STEL: 200 ppm STEL: 950 mg/m <sup>3</sup> TWA: 150 ppm TWA: 710 mg/m <sup>3</sup>	STEL: 950 mg/m <sup>3</sup> 15 percekbén. CK TWA: 950 mg/m <sup>3</sup> 8 órában. AK	TWA: 150 ppm 8 klukkustundum. TWA: 700 mg/m <sup>3</sup> 8 klukkustundum. Ceiling: 300 ppm Ceiling: 1400 mg/m <sup>3</sup>

Component	Latvia	Lithuania	Luxembourg	Malta	Romania
n-Butyl acetate	TWA: 200 mg/m <sup>3</sup>				TWA: 150 ppm 8 ore TWA: 715 mg/m <sup>3</sup> 8 ore STEL: 200 ppm 15 minute STEL: 950 mg/m <sup>3</sup> 15 minute

Component	Russia	Slovak Republic	Slovenia	Sweden	Turkey
n-Butyl acetate	TWA: 50 mg/m <sup>3</sup> STEL: 200 mg/m <sup>3</sup> vapor	Ceiling: 700 mg/m <sup>3</sup> TWA: 100 ppm TWA: 480 mg/m <sup>3</sup>	TWA: 100 ppm 8 urah TWA: 480 mg/m <sup>3</sup> 8 urah STEL: 100 ppm 15 minutah STEL: 480 mg/m <sup>3</sup> 15 minutah	STV: 150 ppm 15 minuter STV: 700 mg/m <sup>3</sup> 15 minuter LLV: 100 ppm 8 timmar. LLV: 500 mg/m <sup>3</sup> 8 timmar.	

### Biological limit values

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies.

### Monitoring methods

BS EN 14042:2003 Title Identifier: Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents.

MDHS70 General methods for sampling airborne gases and vapours

MDHS 88 Volatile organic compounds in air. Laboratory method using diffusive samplers, solvent desorption and gas chromatography

MDHS 96 Volatile organic compounds in air - Laboratory method using pumped solid sorbent tubes, solvent desorption and gas chromatography

**Derived No Effect Level (DNEL)** See table for values

<u>Route of exposure</u>	<b>Acute effects (local)</b>	<b>Acute effects (systemic)</b>	<b>Chronic effects (local)</b>	<b>Chronic effects (systemic)</b>
Oral				
Dermal				
Inhalation	960 mg/m <sup>3</sup>	960 mg/m <sup>3</sup>	480 mg/m <sup>3</sup>	480 mg/m <sup>3</sup>

**Predicted No Effect Concentration (PNEC)** See values below.

Fresh water	0.18 mg/l
Fresh water sediment	0.981 mg/kg
Marine water	0.018 mg/l
Marine water sediment	0.0981 mg/kg
Water Intermittent	0.36 mg/l
Microorganisms in sewage treatment	35.6 mg/l

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Soil (Agriculture) 0.0903 mg/kg

## 8.2. Exposure controls

### Engineering Measures

Ensure adequate ventilation, especially in confined areas. Use explosion-proof electrical/ventilating/lighting/equipment. Wherever possible, engineering control measures such as the isolation or enclosure of the process, the introduction of process or equipment changes to minimise release or contact, and the use of properly designed ventilation systems, should be adopted to control hazardous materials at source

### Personal protective equipment

**Eye Protection** Safety glasses with side-shields (European standard - EN 166)  
**Hand Protection** Protective gloves

Glove material	Breakthrough time	Glove thickness	EU standard	Glove comments
Butyl rubber	< 125 minutes	0.63 mm	Level 4	Permeation rate 83 µg/cm <sup>2</sup> /min
Nitrile rubber	< 78 minutes	0.38 mm	Level 3 EN 374	Permeation rate 135 µg/cm <sup>2</sup> /min As tested under EN374-3 Determination of Resistance to Permeation by Chemicals

**Skin and body protection** Wear appropriate protective gloves and clothing to prevent skin exposure

Inspect gloves before use.

Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. (Refer to manufacturer/supplier for information)

Ensure gloves are suitable for the task: Chemical compatibility, Dexterity, Operational conditions, User susceptibility, e.g. sensitisation effects, also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion.

Remove gloves with care avoiding skin contamination.

**Respiratory Protection** When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. To protect the wearer, respiratory protective equipment must be the correct fit and be used and maintained properly

**Large scale/emergency use** Use a NIOSH/MSHA or European Standard EN 136 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced  
**Recommended Filter type:** Organic gases and vapours filter Type A Brown conforming to EN14387

**Small scale/Laboratory use** Maintain adequate ventilation. Use a NIOSH/MSHA or European Standard EN 149:2001 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.  
**Recommended half mask:-** Valve filtering: EN405; or; Half mask: EN140; plus filter, EN 141

**Environmental exposure controls** Prevent product from entering drains.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on basic physical and chemical properties

<b>Appearance</b>	Colorless	
<b>Physical State</b>	Liquid	
<b>Odor</b>	sweet	
<b>Odor Threshold</b>	7 - 20 ppm	
<b>pH</b>	6.2 @ 20°C	
<b>Melting Point/Range</b>	-90 °C / -130 °F	
<b>Softening Point</b>	No data available	
<b>Boiling Point/Range</b>	126 °C / 258.8 °F	
<b>Flash Point</b>	27 °C / 80.6 °F	<b>Method -</b> No information available
<b>Evaporation Rate</b>	1.0 (ether = 1)	
<b>Flammability (solid,gas)</b>	Not applicable	Liquid
<b>Explosion Limits</b>	<b>Lower</b> 1.2	

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<b>Vapor Pressure</b>	Upper 7.5	
<b>Vapor Density</b>	No data available	
<b>Specific Gravity / Density</b>	4	(Air = 1.0)
<b>Bulk Density</b>	0.881 @ 20C	
<b>Water Solubility</b>	Not applicable	Liquid
<b>Solubility in other solvents</b>	Insoluble	
<b>Partition Coefficient (n-octanol/water)</b>	No information available	
<b>Component</b>	<b>log Pow</b>	
n-Butyl acetate	2.3	
<b>Autoignition Temperature</b>	415 °C / 779 °F	
<b>Decomposition Temperature</b>	No data available	
<b>Viscosity</b>	0.69 - 0.73 mPas @ 20°C	
<b>Explosive Properties</b>	Not explosive	(no chemical groups associated with explosive properties) explosive air/vapour mixtures possible (based on the chemical structure of the substance and oxidation states of the constituent elements)
<b>Oxidizing Properties</b>	Not oxidising	

## 9.2. Other information

<b>Molecular Formula</b>	C6H12O2
<b>Molecular Weight</b>	116.16
<b>Refractive index</b>	1.393

## SECTION 10: STABILITY AND REACTIVITY

### 10.1. Reactivity

None known, based on information available

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

**Hazardous Polymerization** Hazardous polymerization does not occur.  
**Hazardous Reactions** None under normal processing.

### 10.4. Conditions to avoid

Incompatible products. Excess heat. Keep away from open flames, hot surfaces and sources of ignition.

### 10.5. Incompatible materials

Strong oxidizing agents. Strong acids. Strong bases.

### 10.6. Hazardous decomposition products

Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>).

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1. Information on toxicological effects

#### Product Information

#### (a) acute toxicity;

<b>Oral</b>	Based on available data, the classification criteria are not met
<b>Dermal</b>	Based on available data, the classification criteria are not met
<b>Inhalation</b>	Based on available data, the classification criteria are not met

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
n-Butyl acetate	LD50 = 10768 mg/kg ( Rat )	LD50 > 17600 mg/kg ( Rabbit )	LC50 = 390 ppm ( Rat ) 4 h

(b) skin corrosion/irritation; Based on available data, the classification criteria are not met

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- (c) **serious eye damage/irritation;** Based on available data, the classification criteria are not met
- (d) **respiratory or skin sensitization;**  
**Respiratory** Based on available data, the classification criteria are not met  
**Skin** Based on available data, the classification criteria are not met
- (e) **germ cell mutagenicity;** Based on available data, the classification criteria are not met
- (f) **carcinogenicity;** Based on available data, the classification criteria are not met  
 There are no known carcinogenic chemicals in this product
- (g) **reproductive toxicity;** Based on available data, the classification criteria are not met
- (h) **STOT-single exposure;** Category 3  
**Results / Target organs** Central nervous system (CNS).
- (i) **STOT-repeated exposure;** Based on available data, the classification criteria are not met  
**Target Organs** None known.
- (j) **aspiration hazard;** Based on available data, the classification criteria are not met  
**Symptoms / effects, both acute and delayed** Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1. Toxicity

#### Ecotoxicity effects

Contains no substances known to be hazardous to the environment or that are not degradable in waste water treatment plants.

Component	Freshwater Fish	Water Flea	Freshwater Algae	Microtox
n-Butyl acetate	Lepomis macrochirus: LC50: 100 mg/L/96H Pimephales promelas: LC50: 17-19 mg/L/96h	EC50: = 72.8 mg/L, 24h (Daphnia magna)	EC50: = 674.7 mg/L, 72h (Desmodesmus subspicatus)	EC50 = 70.0 mg/L 5 min EC50 = 82.2 mg/L 15 min EC50 = 959 mg/L 18 h EC50 = 98.9 mg/L 30 min

### 12.2. Persistence and degradability

#### Persistence Degradation in sewage treatment plant

Readily biodegradable  
 Persistence is unlikely, based on information available.  
 Contains no substances known to be hazardous to the environment or not degradable in waste water treatment plants.

### 12.3. Bioaccumulative potential

Bioaccumulation is unlikely

Component	log Pow	Bioconcentration factor (BCF)
n-Butyl acetate	2.3	No data available

### 12.4. Mobility in soil

The product contains volatile organic compounds (VOC) which will evaporate easily from all surfaces. Spillage unlikely to penetrate soil. Will likely be mobile in the environment due to its volatility. Highly mobile in soils

### 12.5. Results of PBT and vPvB assessment

Substance is not considered persistent, bioaccumulative and toxic (PBT) / very persistent and very bioaccumulative (vPvB).

### 12.6. Other adverse effects

#### Endocrine Disruptor Information Persistent Organic Pollutant

This product does not contain any known or suspected endocrine disruptors  
 This product does not contain any known or suspected substance



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**Ozone Depletion Potential** This product does not contain any known or suspected substance

## SECTION 13: DISPOSAL CONSIDERATIONS

### 13.1. Waste treatment methods

**Waste from Residues / Unused Products**

Waste is classified as hazardous. Dispose of in accordance with the European Directives on waste and hazardous waste. Dispose of in accordance with local regulations.

**Contaminated Packaging**

Dispose of this container to hazardous or special waste collection point. Empty containers retain product residue, (liquid and/or vapor), and can be dangerous. Keep product and empty container away from heat and sources of ignition.

**European Waste Catalogue (EWC)**

According to the European Waste Catalogue, Waste Codes are not product specific, but application specific.

**Other Information**

Do not dispose of waste into sewer. Waste codes should be assigned by the user based on the application for which the product was used. Can be incinerated, when in compliance with local regulations.

## SECTION 14: TRANSPORT INFORMATION

### IMDG/IMO

**14.1. UN number** UN1123  
**14.2. UN proper shipping name** BUTYL ACETATES  
**14.3. Transport hazard class(es)** 3  
**14.4. Packing group** III

### ADR

**14.1. UN number** UN1123  
**14.2. UN proper shipping name** BUTYL ACETATES  
**14.3. Transport hazard class(es)** 3  
**14.4. Packing group** III

### IATA

**14.1. UN number** UN1123  
**14.2. UN proper shipping name** BUTYL ACETATES  
**14.3. Transport hazard class(es)** 3  
**14.4. Packing group** III

**14.5. Environmental hazards** No hazards identified

**14.6. Special precautions for user** No special precautions required

**14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable, packaged goods

## SECTION 15: REGULATORY INFORMATION

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

**International Inventories**

X = listed

Component	EINECS	ELINCS	NLP	TSCA	DSL	NDSL	PICCS	ENCS	IECSC	AICS	KECL
n-Butyl acetate	204-658-1	-		X	X	-	X	X	X	X	X

### National Regulations

FSUB4951

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Component	Germany - Water Classification (VwVwS)	Germany - TA-Luft Class
n-Butyl acetate	WGK 1	

Component	France - INRS (Tables of occupational diseases)
n-Butyl acetate	Tableaux des maladies professionnelles (TMP) - RG 84

Take note of Control of Substances Hazardous to Health Regulations (COSHH) 2002 and 2005 Amendment.

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

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

## 15.2. Chemical safety assessment

A Chemical Safety Assessment/Report (CSA/CSR) has not been conducted

## SECTION 16: OTHER INFORMATION

### Full text of H-Statements referred to under sections 2 and 3

H226 - Flammable liquid and vapor

H336 - May cause drowsiness or dizziness

EUH066 - Repeated exposure may cause skin dryness or cracking

### Legend

**CAS** - Chemical Abstracts Service

**EINECS/ELINCS** - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

**PICCS** - Philippines Inventory of Chemicals and Chemical Substances

**IECSC** - Chinese Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

**WEL** - Workplace Exposure Limit

**ACGIH** - American Conference of Governmental Industrial Hygienists

**DNEL** - Derived No Effect Level

**RPE** - Respiratory Protective Equipment

**LC50** - Lethal Concentration 50%

**NOEC** - No Observed Effect Concentration

**PBT** - Persistent, Bioaccumulative, Toxic

**ADR** - European Agreement Concerning the International Carriage of Dangerous Goods by Road

**IMO/IMDG** - International Maritime Organization/International Maritime Dangerous Goods Code

**OECD** - Organisation for Economic Co-operation and Development

**BCF** - Bioconcentration factor

### Key literature references and sources for data

Suppliers safety data sheet, Chemadvisor - LOLI, Merck index, RTECS

### Training Advice

Chemical hazard awareness training, incorporating labelling, Safety Data Sheets (SDS), Personal Protective Equipment (PPE) and hygiene.

Use of personal protective equipment, covering appropriate selection, compatibility, breakthrough thresholds, care, maintenance, fit and standards.

First aid for chemical exposure, including the use of eye wash and safety showers.

Fire prevention and fighting, identifying hazards and risks, static electricity, explosive atmospheres posed by vapours and dusts.

Chemical incident response training.

**Creation Date** Oct-2013

**Next Revision Date** Oct-2023

**Revision Summary** SDS section 1 updated and update of Format.

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

### Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the

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date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

**End of Safety Data Sheet**