

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Reference number: 0053A Issue date: 2/29/2024 Revision date: 2/29/2024 Supersedes version of: 4/9/2015 Version: 1.0

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

### **1.1. Product identifier**

Product form	: Su	Ibstance
Trade name	: n-l	BUTANOL GC
IUPAC name	: Bu	ıtan-1-ol
EC Index-No.	: 60	3-004-00-6
EC-No.	: 20	0-751-6
CAS-No.	: 71	-36-3
Product code	: 00	53A
Type of product	: Ali	phatic alcohol
Formula	: C4	IH10O
Chemical structure	Н	H H H H 

Synonyms

: n-Butyl alcohol, 1-Butanol, n-Butyl hydroxide, n-Propyl carbinol, n-Propy Imethanol, 1-Hydroxybutane

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

## 1.2.1. Relevant identified uses

Use of the substance/mixture Use of the substance/mixture : Laboratory chemicals, Manufacture of substances : Solvents

#### 1.2.2. Uses advised against

No additional information available

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

LOBA CHEMIE PVT.LTD. 107 Wode House Road, Jehangir Villa, Colaba 400005 Mumbai INDIA T +91 22 6663 6663, F +91 22 6663 6699 info@lobachemie.com, www.lobachemie.com

#### **1.4. Emergency telephone number**

Emergency number

: + 91 22 6663 6663 (9:00am - 6:00 pm)

## **SECTION 2: Hazards identification**

### 2.1. Classification of the substance or mixture

## Classification according to Regulation (EC) No. 1272/2008 [CLP]

Flammable liquids, Category 3	H226
Acute toxicity (oral), Category 4	H302
Skin corrosion/irritation, Category 2	H315
Serious eye damage/eye irritation, Category 1	H318
Specific target organ toxicity – Single exposure, Category 3,	H336
Narcosis	
Specific target organ toxicity – Single exposure, Category 3,	H335
Respiratory tract irritation	
Full text of H- and EUH-statements: see section 16	

### Adverse physicochemical, human health and environmental effects

Flammable liquid and vapour. May cause drowsiness or dizziness. Harmful if swallowed. May cause respiratory irritation. Causes skin irritation. Causes serious eye damage.

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## 2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]	
Hazard pictograms (CLP)	
Signal word (CLP)	GHS02 GHS05 GHS07 : Danger
Hazard statements (CLP)	: H226 - Flammable liquid and vapour.
	H302 - Harmful if swallowed.
	H315 - Causes skin irritation.
	H318 - Causes serious eye damage.
	H335 - May cause respiratory irritation.
	H336 - May cause drowsiness or dizziness.
Precautionary statements (CLP)	: P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.
	No smoking.
	P280 - Wear protective clothing, eye protection, face protection, protective gloves.
	P301+P312 - IF SWALLOWED: Call a POISON CENTRE or doctor if you feel unwell.
	P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing.
	Rinse skin with water .
	P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.
	P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove
	contact lenses, if present and easy to do. Continue rinsing.

## 2.3. Other hazards

Contains no PBT and/or vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

SECTION 3: Composition/information on ingredients		
3.1. Substances		
Substance type :	Mono-constituent	
Name	Product identifier	%
n-BUTANOL	CAS-No.: 71-36-3 EC-No.: 200-751-6 EC Index-No.: 603-004-00-6	100

## 3.2. Mixtures

Not applicable

SECTION 4: First aid measures	
4.1. Description of first aid measures	
First-aid measures general First-aid measures after inhalation	<ul> <li>Call a poison center or a doctor if you feel unwell.</li> <li>Remove person to fresh air and keep comfortable for breathing. Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell. Call a poison center or a doctor if you feel unwell.</li> </ul>
First-aid measures after skin contact	Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash with plenty of water/ Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention. Specific treatment (see supplemental first aid instruction on this label). If skin irritation occurs: Get medical advice/attention.
First-aid measures after eye contact	<ul> <li>Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor. Call a physician immediately.</li> </ul>

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First-aid measures after ingestion	: Rinse mouth. Call a POISON CENTER/doctor if you feel unwell. Call a poison center or a doctor if you feel unwell.
4.2. Most important symptoms and effect	s, both acute and delayed
Symptoms/effects Symptoms/effects after inhalation Symptoms/effects after skin contact Symptoms/effects after eye contact Symptoms/effects after ingestion	<ul> <li>May cause drowsiness or dizziness.</li> <li>May cause respiratory irritation. May cause drowsiness or dizziness.</li> <li>Causes skin irritation. Irritation.</li> <li>Causes serious eye damage. Serious damage to eyes.</li> <li>Swallowing a small quantity of this material will result in serious health hazard.</li> </ul>

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

Treat symptomatically.

SECTION 5: Firefighting measures		
5.1. Extinguishing media		
Suitable extinguishing media	: dry chemical powder, alcohol-resistant foam, carbon dioxide (CO2). Water spray. Dry powder. Foam. Carbon dioxide.	
Unsuitable extinguishing media	: Do not use a heavy water stream.	
5.2. Special hazards arising from the substance or mixture		
Fire hazard Explosion hazard	<ul> <li>Flammable liquid and vapour.</li> <li>May form flammable/explosive vapour-air mixture.</li> </ul>	
Hazardous decomposition products in case of fire	: Toxic fumes may be released.	
5.3. Advice for firefighters		
Firefighting instructions	: Fight fire from safe distance and protected location. Do not enter fire area without proper protective equipment, including respiratory protection.	
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.	

SECTION 6: Accidental release measures		
6.1. Personal precautions, protective equipment and emergency procedures		
General measures	: Remove ignition sources. Use special care to avoid static electric charges. No open flames. No smoking. Stop leak if safe to do so. Notify authorities if product enters sewers or public waters. Absorb spillage to prevent material damage.	
6.1.1. For non-emergency personnel		
Protective equipment	: Wear recommended personal protective equipment.	
Emergency procedures	: Ventilate spillage area. Evacuate unnecessary personnel. No open flames, no sparks, and no smoking. Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid contact with skin and eyes.	
6.1.2. For emergency responders		
Protective equipment	: Do not attempt to take action without suitable protective equipment. Avoid breathing dust/fume/gas/mist/vapours/spray. For further information refer to section 8: "Exposure controls/personal protection".	
Emergency procedures	: Stop release. Evacuate unnecessary personnel. Stop leak if safe to do so.	
6.2. Environmental precautions		
Avoid release to the environment.		

6.3. Methods and material for containment and cleaning up	
For containment	: Absorb spilled material with sand or earth. Contain any spills with dikes or absorbents to
	prevent migration and entry into sewers or streams. Stop leak without risks if possible.

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Methods for cleaning up	: Take up liquid spill into absorbent material. Collect spillage. On land, sweep or shovel into suitable containers. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Notify authorities if product enters sewers or public waters.
Other information	: Dispose of materials or solid residues at an authorized site.
6.4. Reference to other sections	

For further information refer to section 13.

SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Additional hazards when processed Precautions for safe handling Hygiene measures	<ul> <li>Handle empty containers with care because residual vapours are flammable.</li> <li>No open flames. No smoking. Take precautionary measures against static discharge. Use only non-sparking tools. Avoid breathing dust/fume/gas/mist/vapours/spray. Use only outdoors or in a well-ventilated area. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Flammable vapours may accumulate in the container. Use explosion-proof equipment. Wear personal protective equipment. Avoid contact with skin and eyes.</li> <li>Do not eat, drink or smoke when using this product. Wash hands, forearms and face thoroughly after handling. Wash contaminated clothing before reuse. Always wash hands after handling the product.</li> </ul>
7.2. Conditions for safe storage, including	any incompatibilities
Technical measures	<ul> <li>Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment.</li> </ul>
Storage conditions	: Keep container tightly closed. Store in original container. Store in a dry place. Store in a well-ventilated place. Keep cool. Store locked up.
Incompatible materials	: Heat sources.
Packaging materials	: Store always product in container of same material as original container.

7.3. Specific end use(s)

No additional information available

## **SECTION 8: Exposure controls/personal protection**

### 8.1. Control parameters

## 8.1.1 National occupational exposure and biological limit values

No additional information available

### 8.1.2. Recommended monitoring procedures

No additional information available

#### 8.1.3. Air contaminants formed

No additional information available

### 8.1.4. DNEL and PNEC

No additional information available

### 8.1.5. Control banding

No additional information available

8.2. Exposure controls

### 8.2.1. Appropriate engineering controls

#### Appropriate engineering controls:

Ensure good ventilation of the work station.

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### 8.2.2. Personal protection equipment

#### Personal protective equipment:

Wear recommended personal protective equipment.

# Personal protective equipment symbol(s):



#### 8.2.2.1. Eye and face protection

**Eye protection:** Chemical goggles or safety glasses

#### 8.2.2.2. Skin protection

Skin and body protection: Wear a mask

Hand protection: Protective gloves

#### 8.2.2.3. Respiratory protection

**Respiratory protection:** Wear appropriate mask

## 8.2.2.4. Thermal hazards

No additional information available

#### 8.2.3. Environmental exposure controls

### Environmental exposure controls:

Avoid release to the environment.

## SECTION 9: Physical and chemical properties

## 9.1. Information on basic physical and chemical properties

: Liquid
: Colourless.
: Clear liquid.
: 74.12 g/mol
: alcohol like. strong. banana-like odor.
: Not available
: Not applicable
: -90 °C
: 116 – 118 °C
: Flammable
Flammable liquid and vapour.
: 1.45 vol %
: 11.25 vol %
: 35 °C
: 343 °C
: Not available
: 7 (70 g/l at 20 °C)
: 3.177 mm²/s
: 2.573 mPa⋅s at 25 °C
: Water: 73 g/l at 25 °C - Miscible
Ethanol: Miscible
Ether: Miscible
Acetone: Miscible
: Not available
: 5 hPa at 20 °C

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Vapour pressure at 50°C	:	Not available
Density	:	0.81 g/cm³ at 25 °C
Relative density	:	Not available
Relative vapour density at 20°C	:	2.6 (Air = 1)
Particle characteristics	:	Not applicable

## 9.2. Other information

#### 9.2.1. Information with regard to physical hazard classes

No additional information available

#### 9.2.2. Other safety characteristics

Relative evaporation rate (butylacetate=1)	:	0.46
Refractive index	:	1.399 - 1.4 (20 °C, 589 nm)

SECTION 10: Stability and reactivity	
10.1. Reactivity	
Flammable liquid and vapour.	
10.2. Chemical stability	
Flammable liquid and vapour. May form flammable/explosive vapour-air mixture.	

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

**10.4. Conditions to avoid** 

Open flame. Overheating. Direct sunlight. Heat. Sparks. Avoid contact with hot surfaces. No flames, no sparks. Eliminate all sources of ignition.

**10.5. Incompatible materials** 

No additional information available

**10.6. Hazardous decomposition products** 

May release flammable gases.

## **SECTION 11: Toxicological information**

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

Aguta toxicity (crol)	Harmful if swallowed.
Acute toxicity (dermal) :	Not classified
Acute toxicity (inhalation) :	Not classified
Skin corrosion/irritation :	Causes skin irritation.
	pH: 7 (70 g/l at 20 °C)
Serious eye damage/irritation :	Causes serious eye damage.
	pH: 7 (70 g/l at 20 °C)
Respiratory or skin sensitisation :	Not classified
Germ cell mutagenicity :	Not classified
Carcinogenicity :	Not classified
Reproductive toxicity :	Not classified
STOT-single exposure :	May cause drowsiness or dizziness. May cause respiratory irritation.
STOT-repeated exposure :	Not classified
Aspiration hazard :	Not classified
n-BUTANOL GC (71-36-3)	
Viscosity, kinematic	3.177 mm²/s

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11.2.1. Endocrine disrupting properties		
No additional information available		
11.2.2. Other information		
Potential adverse human health effects and symptoms	: Harmful if swallowed.	
•		

12.1. Toxicity	
Ecology - general : Hazardous to the aquatic environment, short-term : (acute) Hazardous to the aquatic environment, long-term : (chronic)	The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment. Not classified Not classified
12.2. Persistence and degradability	
n-BUTANOL GC (71-36-3)	
Persistence and degradability	Rapidly degradable
12.3. Bioaccumulative potential	
No additional information available	
12.4. Mobility in soil	
No additional information available	
12.5. Results of PBT and vPvB assessment	
No additional information available	
12.6. Endocrine disrupting properties	
No additional information available	
12.7. Other adverse effects	
No additional information available	
SECTION 13: Disposal considerations	

13.1. Waste treatment methods	
Regional waste regulation	: Disposal must be done according to official regulations.
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Sewage disposal recommendations	: Disposal must be done according to official regulations.
Product/Packaging disposal recommendations	: Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation. Disposal must be done according to official regulations.
Additional information	: Handle empty containers with care because residual vapours are flammable. Flammable vapours may accumulate in the container. Do not re-use empty containers.

## **SECTION 14: Transport information**

In accordance with ADR / IMDG / IATA / ADN / RID

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14.1. UN number or ID number	
UN-No. (ADR)	: UN 1120
UN-No. (IMDG)	: UN 1120
UN-No. (IATA)	: UN 1120
UN-No. (ADN)	: UN 1120
UN-No. (RID)	: UN 1120
14.2. UN proper shipping name	
Proper Shipping Name (ADR)	: BUTANOLS
Proper Shipping Name (IMDG)	: BUTANOLS
Proper Shipping Name (IATA)	: Butanols
Proper Shipping Name (ADN)	: BUTANOLS
Proper Shipping Name (RID)	: BUTANOLS
Transport document description (ADR)	: UN 1120 BUTANOLS, 3, III, (D/E)
Transport document description (IMDG)	: UN 1120 BUTANOLS, 3, III
Transport document description (IATA)	: UN 1120 Butanols, 3, III
Transport document description (ADN)	: UN 1120 BUTANOLS, 3, III
Transport document description (RID)	: UN 1120 BUTANOLS, 3, III
14.3. Transport hazard class(es)	

## ADR

Transport hazard class(es) (ADR)	: 3
Danger labels (ADR)	: 3

: 3

: 3 : 3

: 3

: 3 :

: 3 : 3

:

: 3 :



Transport hazard class(es) (IMDG) Danger labels (IMDG)

ΙΑΤΑ
Transport hazard class(es) (IATA)
Danger labels (IATA)



Transport hazard class(es) (ADN) Danger labels (ADN)

## RID

Transport hazard class(es) (RID)	
Danger labels (RID)	

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:

	3
14.4. Packing group	
Packing group (ADR) Packing group (IMDG) Packing group (IATA) Packing group (ADN) Packing group (RID)	: III : III : III : III : III
14.5. Environmental hazards	
Dangerous for the environment	: No
Marine pollutant Other information	<ul><li>No</li><li>No supplementary information available</li></ul>
14.6. Special precautions for user	
Overland transport Classification code (ADR) Limited quantities (ADR) Excepted quantities (ADR) Packing instructions (ADR) Mixed packing provisions (ADR) Portable tank and bulk container instructions (ADR) Portable tank and bulk container special provisions	: F1 : 5I : E1 : P001, IBC03, LP01, R001 : MP19 : T2 : TP1
(ADR) Tank code (ADR) Vehicle for tank carriage Transport category (ADR)	: LGBF : FL : 3
Special provisions for carriage - Packages (ADR) Special provisions for carriage - Operation (ADR) Hazard identification number (Kemler No.) Orange plates	: V12 : S2 : 30 : <b>30</b>
Tunnel restriction code (ADR) EAC code	30 1120 ∴ D/E ∴ •2Y
Transport by sea Special provisions (IMDG)	: 223
Limited quantities (IMDG) Excepted quantities (IMDG) Packing instructions (IMDG) IBC packing instructions (IMDG) Tank instructions (IMDG)	: 5 L : E1 : P001, LP01 : IBC03 : T2
Tank special provisions (IMDG) EmS-No. (Fire) EmS-No. (Spillage) Stowage category (IMDG)	: TP1 : F-E : S-D : A
Properties and observations (IMDG)	: Colourless liquids with a disagreeable odour. Explosive limits: normal-BUTANOL 1.4% to 11.2%. secondary-BUTANOL 1.7% to 9.8%. tertiary-BUTANOL 2.4% to 8%. tertiary-BUTANOL solidifies at about 25°C. normal-BUTANOL is immiscible with water. secondary-BUTANOL is immiscible with water. tertiary-BUTANOL is miscible with water. Irritating to skin, eyes and mucous membranes.
MFAG-No	: 129
Air transport PCA Excepted quantities (IATA)	: E1

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PCA Limited quantities (IATA)	:	Y344
PCA limited quantity max net quantity (IATA)	:	10L
PCA packing instructions (IATA)	:	355
PCA max net quantity (IATA)	:	60L
CAO packing instructions (IATA)	:	366
CAO max net quantity (IATA)	:	220L
Special provisions (IATA)	:	A3
ERG code (IATA)	:	3L
Inland waterway transport		
Classification code (ADN)	:	F1
Limited quantities (ADN)	:	5 L
Excepted quantities (ADN)	:	E1
Carriage permitted (ADN)	:	Т
Equipment required (ADN)	:	PP, EX, A
Ventilation (ADN)	:	VE01
Number of blue cones/lights (ADN)	:	0
Rail transport		
Classification code (RID)	:	F1
Limited quantities (RID)	:	5L
Excepted quantities (RID)	:	E1
Packing instructions (RID)	:	P001, IBC03, LP01, R001
Mixed packing provisions (RID)	:	MP19
Portable tank and bulk container instructions (RID)	:	T2
Portable tank and bulk container special provisions	:	TP1
(RID)		
Tank codes for RID tanks (RID)	:	LGBF
Transport category (RID)	:	3
Special provisions for carriage – Packages (RID)		W12
Colis express (express parcels) (RID)	:	CE4
Hazard identification number (RID)	:	30

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

## SECTION 15: Regulatory information

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

#### 15.1.1. EU-Regulations

### **REACH Annex XVII (Restriction List)**

EU restriction list (REACH Annex XVII)		
Reference code	Applicable on	
3(a)	n-BUTANOL GC	
3(b)	n-BUTANOL GC	
40.	n-BUTANOL GC	

## **REACH Annex XIV (Authorisation List)**

Not listed on REACH Annex XIV (Authorisation List)

### **REACH Candidate List (SVHC)**

Not listed on the REACH Candidate List

## PIC Regulation (Prior Informed Consent)

Not listed on the PIC list (Regulation EU 649/2012)

#### **POP Regulation (Persistent Organic Pollutants)**

Not listed on the POP list (Regulation EU 2019/1021)

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### Ozone Regulation (1005/2009)

Not listed on the Ozone Depletion list (Regulation EU 1005/2009)

### Dual-Use Regulation (428/2009)

Contains no substance subject to the COUNCIL REGULATION (EC) No 428/2009 of 5 May 2009 setting up a Community regime for the control of exports, transfer, brokering and transit of dual-use items.

## **Explosives Precursors Regulation (2019/1148)**

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

#### **Drug Precursors Regulation (273/2004)**

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

#### 15.1.2. National regulations

#### France

Occupational diseases		
Code De	Description	
hyo alc din	Conditions caused by liquid organic solvents for professional use: saturated or unsaturated aliphatic or cyclic liquid hydrocarbons and mixtures thereof; liquid halogenated hydrocarbons; nitrated derivatives of aliphatic hydrocarbons; alcohols; glycols, glycol ethers; ketones; aldehydes; aliphatic and cyclic ethers, including tetrahydrofuran; esters; dimethylformamide and dimethylacetamine; acetonitrile and propionitrile; pyridine; dimethylsulfone and dimethylsulfoxide	
Germany		
Water hazard class (WGK) Hazardous Incident Ordinance (	: WGK 1, Slightly hazardous to water (Classification according to AwSV; ID No. 39).         (12. BImSchV)       : Is not subject to the Hazardous Incident Ordinance (12. BImSchV)	
Netherlands		
SZW-lijst van kankerverwekken	nde stoffen : The substance is not listed	
SZW-lijst van mutagene stoffen		
SZW-lijst van reprotoxische stof		
SZW-lijst van reprotoxische stof Vruchtbaarheid	ffen – : The substance is not listed	
SZW-lijst van reprotoxische stof	ffen – Ontwikkeling : The substance is not listed	
Denmark		
Class for fire hazard	: Class II-1	
Store unit	: 5 liter	
Classification remarks	<ul> <li>R10 <h226;h302;h315;h318;h335;h336>; Emergency management guidelines for the storage of flammable liquids must be followed</h226;h302;h315;h318;h335;h336></li> </ul>	
Danish National Regulations	: Young people below the age of 18 years are not allowed to use the product	
15.2. Chemical safety asse	essment	

No chemical safety assessment has been carried out

## **SECTION 16: Other information**

Abbreviations and acronyms:		
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways	
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road	
ATE	Acute Toxicity Estimate	
BCF	Bioconcentration factor	
BLV	Biological limit value	
BOD	Biochemical oxygen demand (BOD)	

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Abbreviations and acronyms:		
COD	Chemical oxygen demand (COD)	
DMEL	Derived Minimal Effect level	
DNEL	Derived-No Effect Level	
EC-No.	European Community number	
EC50	Median effective concentration	
EN	European Standard	
IARC	International Agency for Research on Cancer	
ΙΑΤΑ	International Air Transport Association	
IMDG	International Maritime Dangerous Goods	
LC50	Median lethal concentration	
LD50	Median lethal dose	
LOAEL	Lowest Observed Adverse Effect Level	
NOAEC	No-Observed Adverse Effect Concentration	
NOAEL	No-Observed Adverse Effect Level	
NOEC	No-Observed Effect Concentration	
OECD	Organisation for Economic Co-operation and Development	
OEL	Occupational Exposure Limit	
РВТ	Persistent Bioaccumulative Toxic	
PNEC	Predicted No-Effect Concentration	
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail	
SDS	Safety Data Sheet	
STP	Sewage treatment plant	
ThOD	Theoretical oxygen demand (ThOD)	
TLM	Median Tolerance Limit	
VOC	Volatile Organic Compounds	
CAS-No.	Chemical Abstract Service number	
N.O.S.	Not Otherwise Specified	
vPvB	Very Persistent and Very Bioaccumulative	
ED	Endocrine disrupting properties	

Full text of H- and EUH-statements:		
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4	
Eye Dam. 1	Serious eye damage/eye irritation, Category 1	
Flam. Liq. 3	Flammable liquids, Category 3	
H226	Flammable liquid and vapour.	
H302	Harmful if swallowed.	
H315	Causes skin irritation.	
H318	Causes serious eye damage.	
H335	May cause respiratory irritation.	

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Full text of H- and EUH-statements:	
H336	May cause drowsiness or dizziness.
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Narcosis

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.