

# **Safety Data Sheet**

according to Regulation (EC) No 1907/2006

## Dibutylamine solution 0.1 mol/I - 0.1 N solution in xylene

Revision date: 28.02.2024 Product code: 19252 Page 1 of 14

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

#### 1.1. Product identifier

Dibutylamine solution 0.1 mol/l - 0.1 N solution in xylene

## 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).

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

Company name: AnalytiChem GmbH

ACD

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 Day or Night Within USA and Canada:

1-800-424-9300 Outside USA and Canada: +1 703-741-5970 (collect calls

accepted)

#### **Further Information**

This product is a mixture. REACH Registration Number see section 3.

### **SECTION 2: Hazards identification**

### 2.1. Classification of the substance or mixture

### Regulation (EC) No 1272/2008

Flam. Liq. 3; H226 Acute Tox. 3; H331 Acute Tox. 4; H312 Asp. Tox. 1; H304

Skin Irrit. 2; H315 Eye Irrit. 2; H319

STOT SE 3; H335

STOT RE 2; H373

Full text of hazard statements: see SECTION 16.

#### 2.2. Label elements

### Regulation (EC) No 1272/2008

## Hazard components for labelling

xylene (mix) di-n-butylamine

Signal word: Danger



according to Regulation (EC) No 1907/2006

# Dibutylamine solution 0.1 mol/I - 0.1 N solution in xylene

Revision date: 28.02.2024 Product code: 19252 Page 2 of 14

### Pictograms:







#### **Hazard statements**

H226 Flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H312 Harmful in contact with skin.
 H315 Causes skin irritation.
 H319 Causes serious eye irritation.

H331 Toxic if inhaled.

H335 May cause respiratory irritation.

H373 May cause damage to organs through prolonged or repeated exposure.

### **Precautionary statements**

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

smoking.

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing

protection.

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.

P331 Do NOT induce vomiting.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with

water or shower.

# 2.3. Other hazards

No data available

# **SECTION 3: Composition/information on ingredients**

### 3.2. Mixtures

## Relevant ingredients

CAS No	Chemical name			Quantity	
	EC No	Index No	REACH No		
	Classification (Regulati	on (EC) No 1272/2008)	·		
	xylene (mix)			95 - < 100 %	
	905-588-0 601-022-00-9 01-2119488216-32				
	Flam. Liq. 3, Acute Tox. 4, Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2, STOT SE 3, STOT RE 2, Asp. Tox. 1; H226 H332 H312 H315 H319 H335 H373 H304				
111-92-2	di-n-butylamine	1 - < 5 %			
	203-921-8 612-049-00-0 01-2119475606-30				
	Flam. Liq. 3, Acute Tox. 2, Acute Tox. 3, Acute Tox. 4, Skin Corr. 1A; H226 H330 H311 H302 H314				

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



# **Safety Data Sheet**

according to Regulation (EC) No 1907/2006

## Dibutylamine solution 0.1 mol/I - 0.1 N solution in xylene

Revision date: 28.02.2024 Product code: 19252 Page 3 of 14

Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity	
	Specific Conc. I	Limits, M-factors and ATE		
	905-588-0	xylene (mix)	95 - < 100 %	
	inhalation: LC50 = 6700 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); dermal: LD50 = 12126 mg/kg; oral: LD50 = 3523 mg/kg			
111-92-2	203-921-8	di-n-butylamine	1 - < 5 %	
	inhalation: LC50 = 218 mg/l (vapours); inhalation: ATE = 0,05 mg/l (dusts or mists); dermal: LD50 = 768 mg/kg; oral: LD50 = 550 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.

If breathing is irregular or stopped, administer artificial respiration.

Call a physician immediately.

#### After contact with skin

Wash immediately with: Water

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

Call a physician immediately.

### After contact with eyes

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

### After ingestion

Observe risk of aspiration if vomiting occurs.

Call a physician immediately.

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

Irritant

Dizziness

Vapours may cause drowsiness and dizziness.

Headache

Agitation

Spasms

Anaesthetic state

Gastrointestinal complaints

Vomiting

Conjunctival oedema (chemosis).

Unconsciousness

corrosive

Cough

Dyspnoea

Risk of serious damage to eyes.

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

No data available

### **SECTION 5: Firefighting measures**



# **Safety Data Sheet**

according to Regulation (EC) No 1907/2006

# Dibutylamine solution 0.1 mol/I - 0.1 N solution in xylene

Revision date: 28.02.2024 Product code: 19252 Page 4 of 14

#### 5.1. Extinguishing media

#### Suitable extinguishing media

Foam

Carbon dioxide (CO2)

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:

Hydrogen cyanide (hydrocyanic acid)

Nitrogen oxides (NOx)

Carbon dioxide (CO2) Carbon monoxide

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

#### 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).



according to Regulation (EC) No 1907/2006

## Dibutylamine solution 0.1 mol/I - 0.1 N solution in xylene

Revision date: 28.02.2024 Product code: 19252 Page 5 of 14

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 gas/fumes/vapour/spray. 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.

## 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 in a cool, well-ventilated place.

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

# Further information on storage conditions

Keep container tightly closed.

Keep cool. Protect from sunlight.

#### 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
1330-20-7	Xylene, mixed isomers	50	221		TWA (8 h)	
		100	442		STEL (15 min)	



according to Regulation (EC) No 1907/2006

# Dibutylamine solution 0.1 mol/l - 0.1 N solution in xylene

Revision date: 28.02.2024 Product code: 19252 Page 6 of 14

### **DNEL/DMEL values**

CAS No	Substance			
DNEL type	DNEL type		Effect	Value
	xylene (mix)			
Worker DNE	EL, long-term	inhalation	systemic	221 mg/m³
Worker DNE	EL, acute	inhalation	systemic	442 mg/m³
Worker DNE	EL, long-term	inhalation	local	221 mg/m³
Worker DNE	EL, acute	inhalation	local	442 mg/m³
Worker DNE	EL, long-term	dermal	systemic	212 mg/kg bw/day
Consumer D	NEL, long-term	inhalation	systemic	65,3 mg/m³
Consumer D	NEL, acute	inhalation	systemic	260 mg/m³
Consumer D	NEL, long-term	inhalation	local	65,3 mg/m³
Consumer DNEL, acute		inhalation	local	260 mg/m³
Consumer D	Consumer DNEL, long-term		systemic	125 mg/kg bw/day
Consumer D	Consumer DNEL, long-term		systemic	12,5 mg/kg bw/day
111-92-2	di-n-butylamine			
Worker DNEL, long-term		inhalation	systemic	29 mg/m³
Worker DNEL, acute		inhalation	systemic	29 mg/m³
Worker DNEL, long-term		inhalation	local	29 mg/m³
Worker DNE	Worker DNEL, acute		local	29 mg/m³

# PNEC values

CAS No	Substance	
Environment	al compartment	Value
	xylene (mix)	·
Freshwater		0,327 mg/l
Freshwater (	intermittent releases)	0,327 mg/l
Marine wate		0,327 mg/l
Freshwater	sediment	12,46 mg/kg
Marine sedir	nent	12,46 mg/kg
Micro-organisms in sewage treatment plants (STP)		6,58 mg/l
Soil		2,31 mg/kg
111-92-2	-2 di-n-butylamine	
Freshwater		0,084 mg/l
Freshwater (	intermittent releases)	0,084 mg/l
Marine water		0,008 mg/l
Freshwater sediment		11,4 mg/kg
Marine sediment		1,14 mg/kg
Micro-organisms in sewage treatment plants (STP)		149,5 mg/l
Soil		2,23 mg/kg

# 8.2. Exposure controls

# Appropriate engineering controls

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



according to Regulation (EC) No 1907/2006

## Dibutylamine solution 0.1 mol/l - 0.1 N solution in xylene

Revision date: 28.02.2024 Product code: 19252 Page 7 of 14

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

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

Trade name/designation KCL 890 Vitoject® Suitable material: FKM (fluoro rubber) 0,7 mm Wearing time with permanent contact: > 480 min

By short-term hand contact

Trade name/designation KCL 890 Vitoject® Suitable material: FKM (fluoro rubber) 0,7 mm

Wearing time with occasional contact (splashes): > 480 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

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

Wear fire resistant or flame retardant clothing.

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

Draw up and observe skin protection programme.

### Respiratory protection

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

#### **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: characteristic Odour threshold: No data available

Melting point/freezing point: No data available Boiling point or initial boiling point and >35 °C

boiling range:

Flammability: No data available Lower explosion limits: No data available Upper explosion limits: No data available >23 °C Flash point: No data available Auto-ignition temperature: Decomposition temperature: No data available No data available pH-Value:



### **Safety Data Sheet**

according to Regulation (EC) No 1907/2006

# Dibutylamine solution 0.1 mol/l - 0.1 N solution in xylene

Revision date: 28.02.2024 Product code: 19252 Page 8 of 14

Viscosity / kinematic:

Water solubility:

No data available

No data available

Solubility in other solvents

No data available

No data available Dissolution rate: Partition coefficient n-octanol/water: No data available Dispersion stability: No data available Vapour pressure: No data available Vapour pressure: No data available Density: 0.86 g/cm<sup>3</sup> Relative density: No data available Bulk density: No data available No data available Relative vapour density: Particle characteristics: No data available

### 9.2. Other information

### Information with regard to physical hazard classes

Explosive properties

Vapours are heavier than air, spread along floors and form explosive mixtures with air.

Sustaining combustion:

Sustaining combustion

Self-ignition temperature

Solid: No data available
Gas: No data available

Oxidizing properties

No data available

Other safety characteristics

No data available Evaporation rate: Solvent separation test: No data available Solvent content: No data available Solid content: No data available Sublimation point: No data available Softening point: No data available No data available Pour point: No data available Viscosity / dynamic: No data available Flow time: No data available

#### **Further Information**

No data available

# **SECTION 10: Stability and reactivity**

### 10.1. Reactivity

In case of warming:

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

Sulphuric acid, concentrated

**SULPHUR** 

Nitric acid

Acids

Alcohols



according to Regulation (EC) No 1907/2006

# Dibutylamine solution 0.1 mol/l - 0.1 N solution in xylene

Revision date: 28.02.2024 Product code: 19252 Page 9 of 14

Ketone

aldehydes

ester

**Nitriles** 

Phenols

### 10.4. Conditions to avoid

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

#### 10.5. Incompatible materials

Light metal

Rubber articles

plastic

copper

Copper alloys

Tin

#### 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

There are no data available on the preparation/mixture itself.

# **Acute toxicity**

Toxic if inhaled.

Harmful in contact with skin.

If swallowed danger of perforation of the esophagus and the stomach (strong corrosive effects).

Pulmonary oedema

Pneumonia

#### **ATEmix calculated**

ATE (oral) > 2000 mg/kg; ATE (dermal) 1093 mg/kg; ATE (inhalation vapour) 8,360 mg/l; ATE (inhalation dust/mist) 1,044 mg/l

CAS No	Chemical name							
	Exposure route	Dose		Species	Source	Method		
	xylene (mix)							
	oral	LD50 mg/kg	3523	Rat	Study report (1986)	EU Method B.1		
	dermal	LD50 mg/kg	12126	Rabbit	Publication (1962)	Single dermal dose under occlusion follo		
	inhalation (4 h) vapour	LC50	6700 mg/l	Rat	Toxicol Appl Pharmacol 33:543-558. (1975	EU Method B.2		
	inhalation dust/mist	ATE	1,5 mg/l					
111-92-2	di-n-butylamine							
	oral	LD50 mg/kg	550	Rat	Publication (1954)	Evaluation of acute oral toxicity after		
	dermal	LD50 mg/kg	768	Rabbit	Publication (1954)	according to Draize et al.		
	inhalation (4 h) vapour	LC50	218 mg/l	Rat	Study report (1987)	OECD Guideline 403		
	inhalation dust/mist	ATE	0,05 mg/l					



according to Regulation (EC) No 1907/2006

# Dibutylamine solution 0.1 mol/I - 0.1 N solution in xylene

Revision date: 28.02.2024 Product code: 19252 Page 10 of 14

#### Irritation and corrosivity

Causes skin irritation.

Causes serious eye irritation.

Has degreasing effect on the skin.

#### 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 respiratory irritation. (xylene (mix))

kidneys

liver

central nervous system

### STOT-repeated exposure

May cause damage to organs through prolonged or repeated exposure. (xylene (mix))

#### **Aspiration hazard**

May be fatal if swallowed and enters airways.

### Information on likely routes of exposure

There are no data available on the preparation/mixture itself.

#### Specific effects in experiment on an animal

There are no data available on the preparation/mixture itself.

#### Additional information on tests

There are no data available on the preparation/mixture itself.

### **Practical experience**

There are no data available on the preparation/mixture itself.

#### 11.2. Information on other hazards

## **Endocrine disrupting properties**

There are no data available on the preparation/mixture itself.

#### Other information

No data available

#### **Further information**

Irritant

Dizziness

Vapours may cause drowsiness and dizziness.

Headache

Agitation

Spasms

Anaesthetic state

Gastrointestinal complaints

Vomiting

Conjunctival oedema (chemosis).

Unconsciousness

corrosive

Cough

Dyspnoea

Risk of serious damage to eyes.

### **SECTION 12: Ecological information**

# 12.1. Toxicity

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



according to Regulation (EC) No 1907/2006

# Dibutylamine solution 0.1 mol/I - 0.1 N solution in xylene

Revision date: 28.02.2024 Product code: 19252 Page 11 of 14

CAS No	Chemical name							
	Aquatic toxicity	Dose		[h]   [d]	Species	Source	Method	
	xylene (mix)							
	Acute fish toxicity	LC50	8,4 mg/l	96 h	Oncorhynchus mykiss	Ecotoxicology and Environmental Safety.	OECD Guideline 203	
	Acute algae toxicity	ErC50	4,9 mg/l	72 h	Pseudokirchneriella subcapitata	Ecotoxicology and Environmental Safety.	OECD Guideline 201	
	Acute crustacea toxicity	EC50 mg/l	> 3,4	48 h	Ceriodaphnia dubia	Ecotoxicology and Environmental Safety 3	other: US EPA 600/4-91-003	
	Fish toxicity	NOEC mg/l	> 1,3	56 d	Oncorhynchus mykiss	Appl. Sci. Branch, Eng. Res. Cent. Denve	Fish were exposed in artificial streams	
	Crustacea toxicity	NOEC mg/l	1,17	7 d	Ceriodaphnia dubia	Ecotoxicology and Environmental Safety 3	other: US EPA 600/4-91-003	
	Acute bacteria toxicity	EC50 mg/l ( )	> 175	0,5 h	Activated sludge	Research Journal WPCF 60(10) 1850-1856 (	OECD Guideline 209	
111-92-2	di-n-butylamine							
	Acute fish toxicity	LC50	5,5 mg/l	96 h	Oncorhynchus mykiss	Chemosphere 9, 753-762 (1980)	other: IRSA, Quaderni dell'Instituto di	
	Acute algae toxicity	ErC50 mg/l	16,91	72 h	Desmodesmus subspicatus	Study report (1988)	other: DIN 38412, part 9	
	Acute crustacea toxicity	EC50	8,4 mg/l	48 h	Ceriodaphnia dubia	Study report (1994)	other: Standard guide for conducting acu	
	Crustacea toxicity	NOEC	4,2 mg/l	21 d	Daphnia magna	Publication (1999)	OECD Guideline 211	

# 12.2. Persistence and degradability

There are no data available on the mixture itself.

### 12.3. Bioaccumulative potential

## Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
	xylene (mix)	3,2
111-92-2	di-n-butylamine	2,1

#### BCF

CAS No	Chemical name	BCF	Species	Source
	xylene (mix)	> 5,5 - < 12,2	Oncorhynchus mykiss	Appl. Sci. Branch, E
111-92-2	di-n-butylamine	21	fish	United States Enviro

# 12.4. Mobility in soil

There are no data available on the mixture itself.

### 12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

### 12.6. Endocrine disrupting properties

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



# **Safety Data Sheet**

according to Regulation (EC) No 1907/2006

### Dibutylamine solution 0.1 mol/l - 0.1 N solution in xylene

Revision date: 28.02.2024 Product code: 19252 Page 12 of 14

#### 12.7. Other adverse effects

Do not allow to enter into surface water or drains.

#### **Further information**

Avoid release to the environment.

## **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

#### **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)

**14.1. UN number or ID number:** UN 1992

14.2. UN proper shipping name: FLAMMABLE LIQUID, TOXIC, N.O.S. (xylene (mix), di-n-butylamine)

14.3. Transport hazard class(es): 14.4. Packing group: Ш Hazard label: 3+6.1 Classification code: FT1 **Special Provisions:** 274 Limited quantity: 5 I Excepted quantity: F1 Transport category: 3 Hazard No: 36 Tunnel restriction code: D/F

Inland waterways transport (ADN)

14.1. UN number or ID number: UN 1992

14.2. UN proper shipping name: FLAMMABLE LIQUID, TOXIC, N.O.S. (xylene (mix), di-n-butylamine)

14.3. Transport hazard class(es):314.4. Packing group:IIIHazard label:3+6.1Classification code:FT1Special Provisions:274 802Limited quantity:5 LExcepted quantity:E1

Marine transport (IMDG)

14.1. UN number or ID number: UN 1992

14.2. UN proper shipping name: FLAMMABLE LIQUID, TOXIC, N.O.S. (xylene (mix), di-n-butylamine)

 14.3. Transport hazard class(es):
 3

 14.4. Packing group:
 III

 Hazard label:
 3+6.1

 Special Provisions:
 223, 274

 Limited quantity:
 5 L

 Excepted quantity:
 E1

 EmS:
 F-E, S-D

#### Air transport (ICAO-TI/IATA-DGR)



according to Regulation (EC) No 1907/2006

### Dibutylamine solution 0.1 mol/l - 0.1 N solution in xylene

Revision date: 28.02.2024 Product code: 19252 Page 13 of 14

14.1. UN number or ID number: UN 1992

14.2. UN proper shipping name: FLAMMABLE LIQUID, TOXIC, N.O.S. (xylene (mix), di-n-butylamine)

14.3. Transport hazard class(es):314.4. Packing group:IIIHazard label:3+6.1Special Provisions:A3Limited quantity Passenger:2 LPassenger LQ:Y343Excepted quantity:E1

IATA-packing instructions - Passenger: 355
IATA-max. quantity - Passenger: 60 L
IATA-packing instructions - Cargo: 366
IATA-max. quantity - Cargo: 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 Directive

H2 ACUTE TOXIC

2012/18/EU (SEVESO III):

Additional information: P5c

**National regulatory information** 

Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile

work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or

nursing mothers.

Water hazard class (D): 2 - obviously hazardous to water

## **SECTION 16: Other information**

#### Changes

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

### Abbreviations and acronyms

Flam. Liq: Flammable liquid Acute Tox: Acute toxicity Asp. Tox: Aspiration hazard Skin Corr: Skin corrosion Skin Irrit: Skin irritation Eye Irrit: Eye irritation

STOT SE: Specific target organ toxicity - single exposure STOT RE: Specific target organ toxicity - repeated exposure



according to Regulation (EC) No 1907/2006

# Dibutylamine solution 0.1 mol/l - 0.1 N solution in xylene

Revision date: 28.02.2024 Product code: 19252 Page 14 of 14

#### Classification for mixtures and used evaluation method according to Regulation (EC) No 1272/2008 [CLP]

Classification	Classification procedure
Flam. Liq. 3; H226	On basis of test data
Acute Tox. 3; H331	Calculation method
Acute Tox. 4; H312	Calculation method
Asp. Tox. 1; H304	Calculation method
Skin Irrit. 2; H315	Calculation method
Eye Irrit. 2; H319	Calculation method
STOT SE 3; H335	Calculation method
STOT RE 2; H373	Calculation method

# Relevant H and EUH statements (number and full text)

elevant H and EUH	i statements (number and full text)
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H311	Toxic in contact with skin.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H373	May cause damage to organs through prolonged or repeated exposure.

### **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.

(The data for the relevant ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)