



according to Regulation (EC) No 1907/2006

Dibutylamine solution 2 mol/l - 2 N solution in toluene

Revision date: 08.02.2024

Product code: 16732

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

1.1. Product identifier

Dibutylamine solution 2 mol/l - 2 N solution in toluene

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 Danger	ous Goods] Incidents Spill, Leak, Fire,
number:	Exposure, or Accident Call CHEMT	REC Day or Night Within USA and Canada:
	1-800-424-9300 Outside USA and C	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. 2; H225 Acute Tox. 2; H330 Acute Tox. 4; H302 Asp. Tox. 1; H304 Skin Corr. 1A; H314 Eye Dam. 1; H318 Repr. 2; H361d STOT SE 3; H336 STOT RE 2; H373 Aquatic Chronic 3; H412

Full text of hazard statements: see SECTION 16.

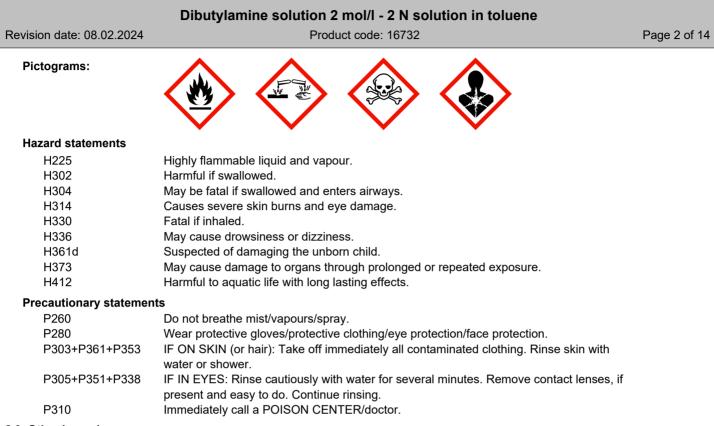
2.2. Label elements

Regulation (EC) No 1272/2008

Hazard components for labelling toluene di-n-butylamine Signal word: Danger



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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 (Regulation (EC) N				
108-88-3	toluene	65 - < 70 %			
	203-625-9	601-021-00-3	01-2119471310-51		
	Flam. Liq. 2, Repr. 2, Skin Irrit. 2, STOT SE 3, STOT RE 2, Asp. Tox. 1, Aquatic Chronic 3; H225 H361d H315 H336 H373 H304 H412				
111-92-2	di-n-butylamine	30 - < 35 %			
	203-921-8	612-049-00-0	01-2119475606-30		
	Flam. Liq. 3, Acute Tox. 2, Acute H314	. 1A; H226 H330 H311 H302			

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

Specific Co	nc. Limits, M-fa	ctors and ATE				
CAS No	EC No Chemical name					
	Specific Conc.	Limits, M-factors and ATE				
108-88-3	203-625-9	toluene	65 - < 70 %			
	inhalation: LC	50 = 28,1 mg/l (vapours); dermal: LD50 = > 5000 mg/kg; oral: LD50 = 5580 mg/kg				
111-92-2	203-921-8	di-n-butylamine	30 - < 35 %			
	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					



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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

Self-protection of the first aider

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.

Remove contact lenses, if present and easy to do. Continue rinsing.

After ingestion

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

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

Headache Dizziness Dizziness Vomiting Inebriation Spasms Circulatory collapse Respiratory complaints Dyspnoea Unconsciousness Irritant — skin irritation and eye damage

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

No data available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Foam. Extinguishing powder Carbon dioxide (CO2)

Unsuitable extinguishing media

no restriction

5.2. Special hazards arising from the substance or mixture

Combustible liquids Beware of reignition. Hazardous combustion products In case of fire may be liberated: Carbon dioxide (CO2) Carbon monoxide Hydrogen cyanide (hydrocyanic acid) Nitrogen oxides (NOx) 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.



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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). 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).



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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. Draw up and observe skin protection programme.

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. Store in a place accessible by authorized persons only.

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 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
108-88-3	Toluene	50	192		TWA (8 h)	
		100	384		STEL (15 min)	

Biological limit values

CAS No	Substance	Parameter	Value	Test material	Sampling time
108-88-3	Toluene	Toluene	0.02 mg/L		Prior to last shift of workweek



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DNEL/DMEL values

CAS No	Substance			
DNEL type		Exposure route	Effect	Value
108-88-3	toluene			
Worker DNEL,	long-term	inhalation	systemic	192 mg/m³
Worker DNEL,	acute	inhalation	systemic	384 mg/m³
Worker DNEL,	long-term	inhalation	local	192 mg/m³
Worker DNEL,	acute	inhalation	local	384 mg/m³
Worker DNEL,	long-term	dermal	systemic	384 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	56,5 mg/m³
Consumer DN	EL, acute	inhalation	systemic	226 mg/m³
Consumer DN	EL, long-term	inhalation	local	56,5 mg/m³
Consumer DN	EL, acute	inhalation	local	226 mg/m ³
Consumer DN	EL, long-term	dermal	systemic	226 mg/kg bw/day
Consumer DN	EL, long-term	oral	systemic	8,13 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 DNEL,	acute	inhalation	local	29 mg/m³

PNEC values

CAS No	Substance	
Environmen	tal compartment	Value
108-88-3	toluene	
Freshwater		0,68 mg/l
Freshwater	(intermittent releases)	0,68 mg/l
Marine wate	r	0,68 mg/l
Freshwater	sediment	16,39 mg/kg
Marine sedi	nent	16,39 mg/kg
Micro-organ	isms in sewage treatment plants (STP)	13,61 mg/l
Soil		2,89 mg/kg
111-92-2	di-n-butylamine	
Freshwater		0,084 mg/l
Freshwater	(intermittent releases)	0,084 mg/l
Marine wate	r	0,008 mg/l
Freshwater	sediment	11,4 mg/kg
Marine sedi	nent	1,14 mg/kg
Micro-organ	isms 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.



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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

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.

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:	clear	
Odour:	like: Hydrocarbons, aromatic	
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
Flash point:		<10 °C
Auto-ignition temperature:		No data available
Decomposition temperature:		No data available
pH-Value:		No data available



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Viscosity / kinematic:	No data available					
Water solubility:	No data available					
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:	No data available					
Vapour pressure:	No data available					
Density: Relative density:	0,848 g/cm³ No data available					
Bulk density:	No data available					
Relative vapour density:	No data available					
Particle characteristics:	No data available					
9.2. Other information						
Information with regard to physical hazard Explosive properties	Classes					
	g floors and form explosive mixtures with air.					
Sustaining combustion:	Sustaining combustion					
Self-ignition temperature	oustaining compusition					
Solid:	No data available					
Gas:	No data available					
Oxidizing properties						
No data available						
Other safety characteristics						
Evaporation rate:	No data available					
Solvent separation test:	No data available					
Solvent content:	No data available					
Solid content:	0					
Sublimation point:	No data available					
Softening point:	No data available					
Pour point:	No data available					
	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

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 Nitric acid Acetic acid Strong acid Alcohols Ketone aldehydes



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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

plastic Plastic articles Rubber articles Light metal 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

Fatal if inhaled.

Harmful if swallowed.

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

Pulmonary oedema

ATEmix calculated

ATE (oral) 1805 mg/kg; ATE (dermal) 2520 mg/kg; ATE (inhalation vapour) 1,640 mg/l; ATE (inhalation dust/mist) 0,1640 mg/l

CAS No	Chemical name	Chemical name							
	Exposure route	Dose		Species	Source	Method			
108-88-3	toluene								
	oral	LD50 mg/kg	5580	Rat	Toxicology 4, 5-15 (1975)	EU Method B.1			
	dermal	LD50 mg/kg	> 5000	Rabbit	American Industrial Hygiene Association	Study investigated mortality in groups o			
	inhalation (4 h) vapour	LC50	28,1 mg/l	Rat	Study report (1980)	OECD Guideline 403			
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						

Irritation and corrosivity

Causes severe skin burns and eye damage.

Causes serious eye damage.



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Sensitising effects

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

Carcinogenic/mutagenic/toxic effects for reproduction

Suspected of damaging the unborn child. (toluene) Germ cell mutagenicity: Based on available data, the classification criteria are not met. Carcinogenicity: Based on available data, the classification criteria are not met.

STOT-single exposure

May cause drowsiness or dizziness. (toluene)

STOT-repeated exposure

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

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

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

Other information

Prolonged or repeated skin contact may cause removal of natural fat from the skin resulting in dermatitis (skin inflammation).

Further information

Headache Dizziness Dizziness Vomiting Inebriation Spasms Circulatory collapse Respiratory complaints Dyspnoea Unconsciousness Irritant - skin irritation and eye damage Gastrointestinal complaints Conjunctival oedema (chemosis). corrosive Cough Risk of serious damage to eyes.

SECTION 12: Ecological information

12.1. Toxicity

Harmful to aquatic life with long lasting effects.



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CAS No	Chemical name								
	Aquatic toxicity	Dose		[h] [d]	Species	Source	Method		
108-88-3	toluene								
	Acute fish toxicity	LC50	5,5 mg/l	96 h	Oncorhynchus kisutch	Transactions A. Fish. Soc. 110, 430-436.	Fry were exposed to toluene in a flow th		
	Acute algae toxicity	ErC50 mg/l	> 433	96 h	Pseudokirchneriella subcapitata	REACh Registration Dossier	Method: other		
	Acute crustacea toxicity	EC50 mg/l	11,5	48 h	Daphnia magna	REACh Registration Dossier	Method: other		
	Fish toxicity	NOEC mg/l	1,39	40 d	Oncorhynchus kisutch	Transactions A. Fish. Soc. 110, 430-436.	Fry were exposed to toluene in a flow th		
	Algae toxicity	NOEC mg/l	> 400	7 d	Scenedesmus quadricauda	REACh Registration Dossier	Method: other		
	Crustacea toxicity	NOEC mg/l	0,74	7 d	Ceriodaphnia dubia	Ecotoxicol. Environ. Saf. 39, 136-146. (other: US EPA 600/4-91-003		
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

There are no data available on the mixture itself.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
108-88-3	toluene	2,73
111-92-2	di-n-butylamine	2,1

BCF

CAS No	Chemical name	BCF	Species	Source
108-88-3	toluene	90	Leuciscus idus melanotus	Chemosphere 14 (10).
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





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

12.7. Other adverse effects

Do not allow to enter into surface water or drains. Avoid release to the environment.

Further information

There are no data available on the mixture itself.

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 3286
14.2. UN proper shipping name:	FLAMMABLE LIQUID, TOXIC, CORROSIVE, N.O.S. (toluene,
	di-n-butylamine)
14.3. Transport hazard class(es):	3
14.4. Packing group:	ll
Hazard label:	3+6.1+8
Classification code:	FTC
Special Provisions:	274
Limited quantity:	1 L
Excepted quantity:	E2
Transport category:	2
Hazard No:	368
Tunnel restriction code:	D/E
Inland waterways transport (ADN)	
14.1. UN number or ID number:	UN 3286
14.2. UN proper shipping name:	FLAMMABLE LIQUID, TOXIC, CORROSIVE, N.O.S. (toluene,
	di-n-butylamine)
14.3. Transport hazard class(es):	3
14.4. Packing group:	II
Hazard label:	3+6.1+8
Classification code:	FTC
Special Provisions:	274 802
Limited quantity:	1 L
Excepted quantity:	E2
Marine transport (IMDG)	
14.1. UN number or ID number:	UN 3286
14.2. UN proper shipping name:	FLAMMABLE LIQUID, TOXIC, CORROSIVE, N.O.S. (toluene,
	di-n-butylamine)
14.3. Transport hazard class(es):	3
14.4. Packing group:	II



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Hazard label:	3+6.1/8	
Special Provisions:	274	
Limited quantity:	1 L	
Excepted quantity:	E2	
EmS:	F-E, S-C	
Air transport (ICAO-TI/IATA-DGR)		
14.1. UN number or ID number:	UN 3286	
14.2. UN proper shipping name:	FLAMMABLE LIQUID, TOXIC, CORROSIVE, N.O.S. (toluene, di-n-butylamine)	
14.3. Transport hazard class(es):	3	
14.4. Packing group:	II	
Hazard label:	3+6.1 8	
Limited quantity Passenger:	0.5 L	
Passenger LQ:	Y340	
Excepted quantity:	E2	
IATA-packing instructions - Passenger:	352	
IATA-max. quantity - Passenger:	1L	
IATA-packing instructions - Cargo:	363	
IATA-max. quantity - Cargo:	5 L	
14.5. Environmental hazards		
ENVIRONMENTALLY HAZARDOUS:	No	
SECTION 15: Regulatory information		
15.1. Safety, health and environmental regul	ations/legislation specific for the substance or mixture	
EU regulatory information		
Restrictions on use (REACH, annex XVII):		
Entry 3, Entry 40, Entry 48		
Information according to Directive 2012/18/EU (SEVESO III):	H2 ACUTE TOXIC	
Additional information:	P5c	
National regulatory information		
Employment restrictions:	Observe restrictions to employment for juveniles according to the 'juve work protection guideline' (94/33/EC). Observe employment restriction under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers. Observe employment restrictions for women of child-bearing age.	
Water hazard class (D):	3 - highly hazardous to water	

SECTION 16: Other information

Changes

This data sheet contains changes from the previous version in section(s): 2,11.



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Abbreviations and acronyms

Flam. Liq: Flammable liquid Acute Tox: Acute toxicity Asp. Tox: Aspiration hazard Skin Corr: Skin corrosion Skin Irrit: Skin irritation Eye Dam: Eye damage Repr: Reproductive toxicity STOT SE: Specific target organ toxicity - single exposure STOT RE: Specific target organ toxicity - repeated exposure Aquatic Chronic: Chronic aquatic hazard

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

Classification	Classification procedure
Flam. Liq. 2; H225	On basis of test data
Acute Tox. 2; H330	Calculation method
Acute Tox. 4; H302	Calculation method
Asp. Tox. 1; H304	Calculation method
Skin Corr. 1A; H314	Calculation method
Eye Dam. 1; H318	Calculation method
Repr. 2; H361d	Calculation method
STOT SE 3; H336	Calculation method
STOT RE 2; H373	Calculation method
Aquatic Chronic 3; H412	Calculation method

Relevant H and EUH statements (number and full text)

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H330	Fatal if inhaled.
H336	May cause drowsiness or dizziness.
H361d	Suspected of damaging the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.
H412	Harmful to aquatic life with long lasting effects.

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.)