

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### Phenol-Ethanol-Glycerine-Chloral hydrate

Revision: 20.05.2025

Product code: AC15.03896

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

### 1.1. Product identifier

Phenol-Ethanol-Glycerine-Chloral hydrate

EC No: 200-659-6

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

#### Use of the substance/mixture

Reagents and laboratory chemicals

Only for laboratory and analysis purposes.

#### Uses advised against

Do not use for private purposes (household).

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

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

Company name: AnalytiChem Services, Unipessoal, Lda  
Street: Rua de Júlio Dinis 676 7º  
Place: N-4050-320 Porto  
Telephone: +351 226002917  
E-mail: info@analytichem.com  
Contact person: SDS service department  
E-mail: SDS@analytichem.com  
Internet: www.analytichem.com  
Responsible Department: SDS service department

#### Supplier or manufacturer details

Company name: AnalytiChem Belgium NV  
Street: Industriezone "De Arend" 2  
Place: B-8210 Zedelgem  
Telephone: +32 50 28 83 20  
E-mail: info.be@analytichem.com  
Contact person: SDS service department  
E-mail: SDS@analytichem.com  
Responsible Department: AnalytiChem  
EU-Belgium: AnalytiChem Belgium, Industriezone "De Arend" 2, 8210 Zedelgem, Belgium, +32 50 28 83 20  
EU-Germany: AnalytiChem Germany, Stempelstrasse 6, 47167 Duisburg, Germany, +49 203 51 94 – 200  
EU-Netherlands: AnalytiChem Netherlands, Communicatieweg 7, 3641 SG Mijdrecht, The Netherlands, +31 297 286848  
UK: AnalytiChem UK, Unit 7 Launton Business Center, Murdock Road, Bicester, OX26 4XB, England, +44 1869 355 500  
USA: AnalytiChem USA, 227 China Road, Winslow, Maine, 04901, United States, +1 800-244-8378  
Canada: AnalytiChem Canada, 21800 Clark Graham Avenue, Baie d'Urfe, H9X 4B6, Canada, +1 514-457-0701  
Australia: ORE Research & Exploration Pty Ltd, 37A Hosie Street, Bayswater North, 3153, Australia, +61 3 9729 0333  
+353 1 901 4670 (CHEMTREC)

### 1.4. Emergency telephone number:

#### Further Information

No data available

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**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Regulation (EC) No 1272/2008**

Flam. Liq. 2; H225  
Muta. 2; H341  
Acute Tox. 3; H331  
Acute Tox. 3; H301  
Acute Tox. 4; H312  
Skin Corr. 1B; H314  
Eye Dam. 1; H318  
STOT RE 2; H373  
Aquatic Chronic 2; H411

Full text of hazard statements: see SECTION 16.

**2.2. Label elements****Regulation (EC) No 1272/2008****Hazard components for labelling**

phenol  
chloral hydrate

**Signal word:** Danger**Pictograms:****Hazard statements**

H225 Highly flammable liquid and vapour.  
H301+H331 Toxic if swallowed or if inhaled.  
H312 Harmful in contact with skin.  
H314 Causes severe skin burns and eye damage.  
H341 Suspected of causing genetic defects.  
H373 May cause damage to organs through prolonged or repeated exposure.  
H411 Toxic to aquatic life with long lasting effects.

**Precautionary statements**

P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read and understood.  
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P233 Keep container tightly closed.  
P240 Ground and bond container and receiving equipment.  
P241 Use explosion-proof electrical/ventilating/lighting equipment.  
P242 Use non-sparking tools.  
P243 Take action to prevent static discharges.  
P260 Do not breathe dust/fume/gas/mist/vapours/spray.  
P264 Wash hands and face thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
P271 Use only outdoors or in a well-ventilated area.  
P273 Avoid release to the environment.  
P280 Wear protective gloves/protective clothing and eye protection/face protection.

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P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P310	Immediately call a POISON CENTER/doctor.
P302+P352	IF ON SKIN: Wash with plenty of water and soap.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P312	Call a POISON CENTER/doctor if you feel unwell.
P362+P364	Take off contaminated clothing and wash it before reuse.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P310	Immediately call a POISON CENTER/doctor.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER/doctor.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P391	Collect spillage.
P233	Keep container tightly closed.
P403+P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/container to an appropriate recycling or disposal facility.

**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) No 1272/2008)			
108-95-2	phenol			45 - < 50 %
	203-632-7	604-001-00-2	01-2119471329-32	
	Muta. 2, Acute Tox. 3, Acute Tox. 3, Acute Tox. 3, Skin Corr. 1B, STOT RE 2, Aquatic Chronic 2; H341 H331 H311 H301 H314 H373 H411			
64-17-5	ethanol			35 - < 40 %
	200-578-6	603-002-00-5	01-2119457610-43	
	Flam. Liq. 2, Eye Irrit. 2; H225 H319			
302-17-0	chloral hydrate			1 - < 5 %
	206-117-5	605-014-00-6	01-2120117773-57	
	Acute Tox. 3, Skin Irrit. 2, Eye Irrit. 2; H301 H315 H319			
67-63-0	"propan-2-ol; isopropyl alcohol; isopropanol"			
	200-661-7	603-117-00-0	01-2119457558-25	
	Flam. Liq. 2, Eye Irrit. 2, STOT SE 3; H225 H319 H336			

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

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#### Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
Specific Conc. Limits, M-factors and ATE			
108-95-2	203-632-7	phenol	45 - < 50 %
inhalation: ATE = 3 mg/l (vapours); inhalation: ATE = 0,5 mg/l (dusts or mists); dermal: LD50 = 850 mg/kg; oral: LD50 = 530 mg/kg Skin Corr. 1B; H314: >= 3 - 100 Skin Irrit. 2; H315: >= 1 - < 3 Eye Irrit. 2; H319: >= 1 - < 3			
64-17-5	200-578-6	ethanol	35 - < 40 %
inhalation: LC50 = 124,7 mg/l (vapours); oral: LD50 = 10470 mg/kg Eye Irrit. 2; H319: >= 50 - 100			
302-17-0	206-117-5	chloral hydrate	1 - < 5 %
dermal: LD50 = 3030 mg/kg; oral: LD50 = 1265 mg/kg			

#### Further Information

No data available

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General information

First aider: Pay attention to self-protection!

#### 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

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.  
Remove contact lenses, if present and easy to do. Continue rinsing.  
Protect uninjured eye.

#### After ingestion

Provide fresh air.  
Rinse mouth immediately and drink plenty of water.  
Call a physician immediately.  
Observe risk of aspiration if vomiting occurs.

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

Observe risk of aspiration if vomiting occurs.  
Causes burns.  
Irritant

### 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

Co-ordinate fire-fighting measures to the fire surroundings.

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#### Unsuitable extinguishing media

Full water jet

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

Combustible liquids

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

Hazardous combustion products

In case of fire may be liberated:

Carbon dioxide

Carbon monoxide

Hydrogen chloride (HCl)

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

In case of fire: Wear self-contained breathing apparatus.

Wear full chemical protective clothing.

In case of fire and/or explosion do not breathe fumes.

#### **Additional information**

Use water spray jet to protect personnel and to cool endangered containers.

Move undamaged containers from immediate hazard area if it can be done safely.

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

Heating causes rise in pressure with risk of bursting.

## SECTION 6: Accidental release measures

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

##### **General advice**

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

##### **For non-emergency personnel**

Provide adequate ventilation.

Use personal protection equipment.

Avoid contact with skin, eyes and clothes.

Remove persons to safety.

Emergency procedures

Consult an expert

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.

#### **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).

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

Collect in closed and suitable containers for disposal.

##### **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.

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#### **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**

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

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 dust/fume/gas/mist/vapours/spray. Provide adequate ventilation.

#### **Advice on protection against fire and explosion**

Take precautionary measures against static discharges.

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. 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).

#### **Advice on general occupational hygiene**

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat or drink.

The choice of body protection depends on the concentration and quantity of hazardous substances. The chemical resistance of protective agents must be clarified with their suppliers.

Provide eye shower and label its location conspicuously

In the immediate working surroundings there must be: Emergency shower installed

#### **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**

Store in a well-ventilated place. Keep container tightly closed.

Provide adequate ventilation as well as local exhaustion at critical locations.

Protect against: Radiant heat.

#### **Hints on joint storage**

National regulations

#### **Further information on storage conditions**

Store in a dry place.

### **7.3. Specific end use(s)**

Laboratory chemicals

Only for laboratory and analysis purposes.

## SECTION 8: Exposure controls/personal protection

### **8.1. Control parameters**

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**Occupational exposure limits**

CAS No	Substance	ppm	mg/m <sup>3</sup>	fib/cm <sup>3</sup>	Category	Origin
64-17-5	Ethyl alcohol	1000	-		STEL (15 min)	
67-63-0	Isopropyl alcohol	200	-		TWA (8 h)	
		400	-		STEL (15 min)	
108-95-2	Phenol	2	8		TWA (8 h)	
		4	16		STEL (15 min)	
67-63-0	Propan-2-ol	200	-		TWA (8 h)	
		400	-		STEL (15 min)	

**Biological limit values**

CAS No	Substance	Parameter	Value	Test material	Sampling time
108-95-2	Phenol	Phenol	120 mg/g	Creatinine	End of shift
67-63-0	2-Propanol	Acetone	40 mg/L	Urine	End of shift at end of workweek

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## DNEL/DMEL values

CAS No	Substance			
DNEL type		Exposure route	Effect	Value
108-95-2	phenol			
Worker DNEL, long-term		inhalation	systemic	8 mg/m <sup>3</sup>
Worker DNEL, acute		inhalation	local	16 mg/m <sup>3</sup>
Worker DNEL, long-term		dermal	systemic	1,23 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	0,452 mg/m <sup>3</sup>
Consumer DNEL, long-term		dermal	systemic	0,5 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	0,5 mg/kg bw/day
64-17-5	ethanol			
Worker DNEL, long-term		inhalation	systemic	950 mg/m <sup>3</sup>
Worker DNEL, long-term		dermal	systemic	343 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	114 mg/m <sup>3</sup>
Consumer DNEL, long-term		dermal	systemic	206 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	87 mg/kg bw/day
302-17-0	chloral hydrate			
Worker DNEL, long-term		inhalation	systemic	1,716 mg/m <sup>3</sup>
Worker DNEL, long-term		dermal	systemic	0,973 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	0,423 mg/m <sup>3</sup>
Consumer DNEL, long-term		dermal	systemic	0,487 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	0,243 mg/kg bw/day
67-63-0	"propan-2-ol; isopropyl alcohol; isopropanol"			
Worker DNEL, long-term		inhalation	systemic	500 mg/m <sup>3</sup>
Worker DNEL, long-term		dermal	systemic	888 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	89 mg/m <sup>3</sup>
Consumer DNEL, long-term		dermal	systemic	319 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	26 mg/kg bw/day

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## PNEC values

CAS No	Substance	
		Value
108-95-2	phenol	
Freshwater		0,008 mg/l
Freshwater (intermittent releases)		0,031 mg/l
Marine water		0,001 mg/l
Freshwater sediment		0,091 mg/kg
Marine sediment		0,009 mg/kg
Micro-organisms in sewage treatment plants (STP)		2,1 mg/l
Soil		0,136 mg/kg
64-17-5	ethanol	
Freshwater		0,96 mg/l
Freshwater (intermittent releases)		2,75 mg/l
Marine water		0,79 mg/l
Freshwater sediment		3,6 mg/kg
Marine sediment		2,9 mg/kg
Secondary poisoning		380 mg/kg
Micro-organisms in sewage treatment plants (STP)		580 mg/l
Soil		0,63 mg/kg
302-17-0	chloral hydrate	
Freshwater		0,115 mg/l
Freshwater (intermittent releases)		0,115 mg/l
Marine water		0,011 mg/l
Freshwater sediment		0,09 mg/kg
Marine sediment		0,009 mg/kg
Micro-organisms in sewage treatment plants (STP)		7,9 mg/l
Soil		0,02 mg/kg
67-63-0	"propan-2-ol; isopropyl alcohol; isopropanol"	
Freshwater		140,9 mg/l
Freshwater (intermittent releases)		140,9 mg/l
Marine water		140,9 mg/l
Freshwater sediment		552 mg/kg
Marine sediment		552 mg/kg
Secondary poisoning		160 mg/kg
Micro-organisms in sewage treatment plants (STP)		2251 mg/l
Soil		28 mg/kg

## Additional advice on limit values

Observe in addition any national regulations!

**8.2. Exposure controls**

## Appropriate engineering controls

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

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

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

#### Individual protection measures, such as personal protective equipment

##### Eye/face protection

goggles

Wear eye protection/face protection.

##### Hand protection

Tested protective gloves must be worn

The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.

##### Skin protection

Wear suitable protective clothing.

Wash hands before breaks and after work.

##### Respiratory protection

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

The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

##### Thermal hazards

No data available

##### Environmental exposure controls

Do not allow to enter into surface water or drains.

## SECTION 9: Physical and chemical properties

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

Physical state:	Liquid
Colour:	colourless
Odour:	No data available
Odour threshold:	No data available
Melting point/freezing point:	-50 °C
Boiling point or initial boiling point and boiling range:	100 °C
Flammability:	No data available
Lower explosion limits:	1,3
Upper explosion limits:	9,5
Flash point:	12 °C
Auto-ignition temperature:	370 °C
Decomposition temperature:	No data available
pH-Value:	5 (50 g/l)
Viscosity / kinematic:	No data available
Water solubility:	Yes.
Solubility in other solvents	
not determined	
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:	0,972 g/cm <sup>3</sup>
Relative density:	No data available
Bulk density:	No data available
Relative vapour density:	No data available

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Particle characteristics: No data available

#### **9.2. Other information**

##### **Information with regard to physical hazard classes**

Explosive properties

No data available

Sustained combustibility:

No data available

Self-ignition temperature

Solid:

not applicable

Gas:

not applicable

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:

No data available

Sublimation point:

No data available

Softening point:

No data available

Pour point:

No data available

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 can form explosive mixtures with air.

#### **10.2. Chemical stability**

Protect against: Radiant heat.

#### **10.3. Possibility of hazardous reactions**

No data available

#### **10.4. Conditions to avoid**

Radiant heat.

#### **10.5. Incompatible materials**

No data available

#### **10.6. Hazardous decomposition products**

in case of fire, see:

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**

##### **Acute toxicity**

Toxic if inhaled.

Toxic if swallowed.

Harmful in contact with skin.

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## ATEmix calculated

ATE (oral) 195,9 mg/kg; ATE (dermal) 1765 mg/kg; ATE (inhalation vapour) 6,230 mg/l; ATE (inhalation dust/mist) 1,038 mg/l

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
108-95-2	phenol				
	oral	LD50 530 mg/kg	Rat	J Pharmacol Exp Ther 80: 233-240 (1944)	OECD Guideline 401
	dermal	LD50 850 mg/kg	Rabbit	Am Ind Hyg Assoc J 37: 596-606 (1976)	OECD Guideline 402
	inhalation vapour	ATE 3 mg/l			
	inhalation dust/mist	ATE 0,5 mg/l			
64-17-5	ethanol				
	oral	LD50 10470 mg/kg	Rat	Study report (1976)	OECD Guideline 401
	inhalation (4 h) vapour	LC50 124,7 mg/l	Rat	Study report (1980)	OECD Guideline 403
302-17-0	chloral hydrate				
	oral	LD50 1265 mg/kg	Mouse	Environmental Health Perspectives Vol. 4	other: as mentioned below
	dermal	LD50 3030 mg/kg	Rat	Gestis substance database (2018)	other: as mentioned below

## Irritation and corrosivity

Skin corrosion/irritation: Causes severe skin burns and eye damage.

Serious eye damage/eye irritation: Causes serious eye damage.

## Sensitising effects

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

## Carcinogenic/mutagenic/toxic effects for reproduction

Suspected of causing genetic defects. (phenol)

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

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

## STOT-single exposure

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

## STOT-repeated exposure

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

## Aspiration hazard

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

## Information on likely routes of exposure

No data available

## Specific effects in experiment on an animal

No data available

## Additional information on tests

No data available

## Practical experience

No data available

**11.2. Information on other hazards**

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#### Endocrine disrupting properties

No data available

#### Other information

No data available

#### Further information

No data available

## SECTION 12: Ecological information

### 12.1. Toxicity

Toxic to aquatic life with long lasting effects.

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CAS No	Chemical name					
	Aquatic toxicity	Dose	[h]   [d]	Species	Source	Method
108-95-2	phenol					
	Acute fish toxicity	LC50 8,9 mg/l	96 h	Oncorhynchus mykiss	Publication (1980)	other:
	Acute algae toxicity	ErC50 61,1 mg/l	96 h	Raphidocelis subcapitata	Environ. Toxicol. Water Qual. 7: 35-48 (	other: US EPA
	Acute crustacea toxicity	EC50 3,1 mg/l	48 h	Ceriodaphnia dubia	Publication (1991)	Test performance in compliance with EPA
	Fish toxicity	NOEC 0,077 mg/l	60 d	Cirrhina mrigala	Publication (1984)	Method: other
	Crustacea toxicity	NOEC 0,16 mg/l	16 d	Daphnia magna	Ecotoxicol. Envir. Saf. 15: 72-77 (1988)	other: NEN 6502
64-17-5	ethanol					
	Acute fish toxicity	LC50 15400 mg/l	96 h	Lepomis macrochirus	Bulletin of Environmental Contamination	other: EPA-660/3-75-00 9, 1975
	Acute algae toxicity	ErC50 ca. 22000 mg/l	96 h	Pseudokirchneriella subcapitata	Ecotoxicology and Environmental Safety 7	OECD Guideline 201
	Acute crustacea toxicity	EC50 > 10000 mg/l	48 h	Daphnia magna	Water Research 23(4): 495-499 (1989)	other: DIN 38412 Teil 11
	Algae toxicity	NOEC 5400 mg/l	5 d	Skeletonema costatum	Environ Toxicol Chem 8(5):451-455. (1989)	Study to determine the sensitivity of a
	Crustacea toxicity	NOEC 2 mg/l	10 d	Ceriodaphnia dubia	Arch Environ Contam Toxicol 20(2):211-21	Follows the basic methodology for the th
302-17-0	chloral hydrate					
	Acute fish toxicity	LC50 > 100 mg/l	96 h	Danio rerio	REACH Registration Dossier	OECD Guideline 203
	Acute algae toxicity	ErC50 > 200 mg/l	72 h	Chlorella vulgaris	REACH Registration Dossier	OECD Guideline 201
	Acute crustacea toxicity	EC50 > 98 mg/l	48 h	Daphnia magna	REACH Registration Dossier	OECD Guideline 202
	Crustacea toxicity	NOEC 11,5 mg/l	21 d	Daphnia magna	REACH Registration Dossier	OECD Guideline 211
67-63-0	"propan-2-ol; isopropyl alcohol; isopropanol"					
	Acute fish toxicity	LC50 10000 mg/l	96 h	Pimephales promelas	Publication (1983)	OECD Guideline 203

**12.2. Persistence and degradability**

No data available

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#### 12.3. Bioaccumulative potential

No data available

#### Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
108-95-2	phenol	1,47
64-17-5	ethanol	-0,77
302-17-0	chloral hydrate	1,092
67-63-0	"propan-2-ol; isopropyl alcohol; isopropanol"	0,05

#### BCF

CAS No	Chemical name	BCF	Species	Source
108-95-2	phenol	17,5	Danio rerio	Publication (1985)
64-17-5	ethanol	1	Cyprinus carpio	Comparative Biochemi
302-17-0	chloral hydrate	3,162	Fish	REACH Registration D

#### 12.4. Mobility in soil

No data available

#### 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.

#### 12.7. Other adverse effects

No data available

#### Further information

Do not allow to enter into surface water or drains.

Avoid release to the environment.

## SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

##### Disposal recommendations

Dispose of contents/container to hazardous or special waste collection point.

Do not allow to enter into surface water or drains.

##### Contaminated packaging

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

## 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. (phenol, ethanol, chloral hydrate@, @0000000I2E93)

##### 14.3. Transport hazard class(es):

3

##### 14.4. Packing group:

II

Hazard label:

3+6.1

Classification code:

FT1

Special Provisions:

274

Limited quantity:

1 L

Excepted quantity:

E2

Transport category:

2

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Hazard No:	336
Tunnel restriction code:	D/E
<b>Inland waterways transport (ADN)</b>	
<b><u>14.1. UN number or ID number:</u></b>	UN 1992
<b><u>14.2. UN proper shipping name:</u></b>	FLAMMABLE LIQUID, TOXIC, N.O.S. (phenol, ethanol, chloral hydrate@, @0000000I2E93)
<b><u>14.3. Transport hazard class(es):</u></b>	3
<b><u>14.4. Packing group:</u></b>	II
Hazard label:	3+6.1
Classification code:	FT1
Special Provisions:	274 802
Limited quantity:	1 L
Excepted quantity:	E2
<b>Marine transport (IMDG)</b>	
<b><u>14.1. UN number or ID number:</u></b>	UN 1992
<b><u>14.2. UN proper shipping name:</u></b>	FLAMMABLE LIQUID, TOXIC, N.O.S. (phenol, ethanol, chloral hydrate@, @0000000I2E93)
<b><u>14.3. Transport hazard class(es):</u></b>	3
<b><u>14.4. Packing group:</u></b>	II
Hazard label:	3+6.1
Special Provisions:	274
Limited quantity:	1 L
Excepted quantity:	E2
EmS:	F-E, S-D
<b>Air transport (ICAO-TI/IATA-DGR)</b>	
<b><u>14.1. UN number or ID number:</u></b>	UN 1992
<b><u>14.2. UN proper shipping name:</u></b>	FLAMMABLE LIQUID, TOXIC, N.O.S. (phenol, ethanol, chloral hydrate@, @0000000I2E93)
<b><u>14.3. Transport hazard class(es):</u></b>	3
<b><u>14.4. Packing group:</u></b>	II
Hazard label:	3+6.1
Special Provisions:	A3
Limited quantity Passenger:	1 L
Passenger LQ:	Y341
Excepted quantity:	E2
IATA-packing instructions - Passenger:	352
IATA-max. quantity - Passenger:	1 L
IATA-packing instructions - Cargo:	364
IATA-max. quantity - Cargo:	60 L
<b><u>14.7. Maritime transport in bulk according to IMO instruments</u></b>	
not applicable	

### 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, Entry 75

Information according to Directive

2012/18/EU (SEVESO III):

Additional information: P5c, E2

H2 ACUTE TOXIC

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#### Additional information

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.

#### National regulatory information

### SECTION 16: Other information

#### Abbreviations and acronyms

Flam. Liq. 2: Flammable liquids, hazard category 2

Acute Tox. 3: Acute toxicity, hazard category 3

Skin Corr. 1B: Skin corrosion, sub-category 1B

Skin Irrit. 2: Skin irritation, hazard category 2

Eye Dam. 1: Serious eye damage, hazard category 1

Eye Irrit. 2: Eye irritation, hazard category 2

Muta. 2: Germ cell mutagenicity, hazard category 2

STOT SE 3: Specific target organ toxicity - single exposure, hazard category 3

STOT RE 2: Specific target organ toxicity - repeated exposure, hazard category 2

Aquatic Chronic 2: Hazardous to the aquatic environment, long-term hazard category: Chronic 2

ADR: Accord européen sur le transport des marchandises dangereuses par Route

(European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service

LC50: Lethal concentration, 50%

LD50: Lethal dose, 50%

#### 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
Muta. 2; H341	Calculation method
Acute Tox. 3; H331	Calculation method
Acute Tox. 3; H301	Calculation method
Acute Tox. 4; H312	Calculation method
Skin Corr. 1B; H314	Calculation method
Eye Dam. 1; H318	Calculation method
STOT RE 2; H373	Calculation method
Aquatic Chronic 2; H411	Calculation method

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

H225	Highly flammable liquid and vapour.
H301	Toxic if swallowed.
H301+H331	Toxic if swallowed or if inhaled.
H311	Toxic in contact with skin.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.

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H331	Toxic if inhaled.
H336	May cause drowsiness or dizziness.
H341	Suspected of causing genetic defects.
H373	May cause damage to organs through prolonged or repeated exposure.
H411	Toxic 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.)*