

according to Regulation (EC) No 1907/2006

# Phenol 50 g/L in water for the determination of the content of total iodine in Tang Monograph 1426.

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

## 1.1. Product identifier

Phenol 50 g/L in water for the determination of the content of total iodine in Tang Monograph 1426,

UFI: 06RX-F2J3-000H-MA2G

## 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

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,

<u>number:</u> 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

Muta. 2; H341 Skin Corr. 1B; H314 Eye Dam. 1; H318

Full text of hazard statements: see SECTION 16.

## 2.2. Label elements

# Regulation (EC) No 1272/2008

# Hazard components for labelling

phenol

Signal word: Danger

Pictograms:







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#### Hazard statements

H314 Causes severe skin burns and eye damage.
H341 Suspected of causing genetic defects.

## **Precautionary statements**

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

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water

or shower.

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.

#### 2.3. Other hazards

No data available

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

#### 3.2. Mixtures

#### **Chemical characterization**

Mixtures in aqueous solution

#### Relevant ingredients

CAS No	Chemical name	Chemical name			
	EC No	Index No	Index No REACH No		
	Classification (Regulation (E	Classification (Regulation (EC) No 1272/2008)			
108-95-2	phenol	phenol			
	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				

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

# Specific Conc. Limits. M-factors and ATE

opecine conc. Limits, in-ractors and ArE						
CAS No	EC No	Chemical name	Quantity			
	Specific Conc. I	ic Conc. Limits, M-factors and ATE				
108-95-2	203-632-7	phenol	3 - < 5 %			
	850 mg/kg; oral	= 3 mg/l (vapours); inhalation: ATE = 0,5 mg/l (dusts or mists); dermal: LD50 = : LD50 = 530 mg/kg  Skin Corr. 1B; H314: >= 3 - 100  Skin Irrit. 2; H315: >= 1 - : : H319: >= 1 - < 3				

#### **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**

fast help required Call a physician immediately.

First aider: Pay attention to self-protection!

Remove affected person from the danger area and lay down.

## After inhalation

Provide fresh air.

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If breathing is irregular or stopped, administer artificial respiration.

Call a physician immediately.

#### After contact with skin

Wash immediately with: Water, Polyethylene glycol 400 / Polyethylene glycol 300/ethanol (2:1)

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

Call a physician immediately.

(for phenol): rinse the affected skin areas with plenty of water as quickly as possible using the nearest emergency shower. Rinse with a mixture of polyethylene glycol 300 (PEG 300)/ethanol 2:1; Rinse with polyethylene glycol 400 (PEG 400); Rinse with polyethylene glycol 300 (PEG 300). Practical experience and experimental studies have shown that the best results are achieved with the first method (PEG 300/ethanol) for practically all phenols. As far as non-chlorinated cresols and phenols are concerned, PEG 400 can also be used successfully. After rinsing with PEG 400 or PEG 300/ethanol 2:1, you should alternately rinse with plenty of water (e.g. emergency shower).

#### 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.

# After ingestion

Rinse mouth immediately and drink plenty of water.

(Water, to which activated charcoal may be added)

Do not allow a neutralisation agent to be drunk.

Call a physician immediately.

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

Irritant, corrosive

Dyspnoea, Cough

Dizziness, Dizziness

Inebriation, Cardiac arrhythmias

Circulatory collapse, Headache

Respiratory complaints, Unconsciousness

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**

# 5.1. Extinguishing media

# Suitable extinguishing media

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

# Unsuitable extinguishing media

no restriction

# 5.2. Special hazards arising from the substance or mixture

Hazardous combustion products

## 5.3. Advice for firefighters

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

Avoid contact with skin, eyes and clothes.

# Additional information

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

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

# **SECTION 6: Accidental release measures**



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# 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).

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

Avoid exposure - obtain special instructions before use.

Keep container tightly closed.

Do not breathe vapour/aerosol.

Avoid contact with skin, eyes and clothes.

Read label before use.

Use extractor hood (laboratory).

## Advice on protection against fire and explosion

Usual measures for fire prevention.

#### Advice on general occupational hygiene

Wash contaminated clothing prior to re-use.

Avoid contact with skin, eyes and clothes.



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# Further information on handling

Wash contaminated clothing before reuse.

Wash hands before breaks and after work.

Draw up and observe skin protection programme.

# 7.2. Conditions for safe storage, including any incompatibilities

## Requirements for storage rooms and vessels

Keep container tightly closed.

## Hints on joint storage

national regulations

# Further information on storage conditions

Store in a dry place.

Store in a well-ventilated place.

# 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
108-95-2	Phenol	2	8		TWA (8 h)	
		4	16		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

## **DNEL/DMEL values**

CAS No	Substance				
DNEL type		Exposure route	Effect	Value	
108-95-2	phenol				
Worker DNEL,	long-term	inhalation	systemic	8 mg/m³	
Worker DNEL,	Worker DNEL, acute		local	16 mg/m³	
Worker DNEL,	Worker DNEL, long-term		systemic	1,23 mg/kg bw/day	
Consumer DNE	Consumer DNEL, long-term		systemic	0,452 mg/m³	
Consumer DNEL, long-term		dermal	systemic	0,5 mg/kg bw/day	
Consumer DNEL, long-term		oral	systemic	0,5 mg/kg bw/day	



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## **PNEC** values

CAS No	Substance	
Environmenta	al compartment	Value
108-95-2	phenol	
Freshwater		0,008 mg/l
Freshwater (i	Freshwater (intermittent releases)	
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	

#### 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.

## Individual protection measures, such as personal protective equipment

## Eye/face protection

goggles

# **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 897 Butoject®

Recommended material: Butyl caoutchouc (butyl rubber) 0,3 mm

Wearing time with permanent contact: > 480 min

By short-term hand contact

Trade name/designation: KCL 897 Butoject®

Recommended material: Butyl caoutchouc (butyl rubber) 0,3 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

Wear suitable protective clothing.

Wash hands before breaks and after work.

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.

#### Respiratory protection

Respiratory protection necessary at: aerosol or mist formation

The entrepeneur 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.



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#### 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:

Colour:

Odour:

Odour threshold:

Liquid

colourless

like: Phenol

No data available

Melting point/freezing point:

Boiling point or initial boiling point and

No data available

No data available

boiling range:

No data available Flammability: No data available Lower explosion limits: Upper explosion limits: No data available No data available Flash point: Auto-ignition temperature: No data available No data available Decomposition temperature: No data available pH-Value: No data available Viscosity / kinematic: No data available Water solubility:

Solubility in other solvents

No data available

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: 1,00294 g/cm<sup>3</sup> Density (at 20 °C): No data available Relative density: No data available Bulk density: Relative vapour density: No data available No data available Particle characteristics:

## 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: No data available
Gas: No data available

Oxidizing properties

No data available

## Other safety characteristics

Evaporation rate:

Solvent separation test:

No data available

No data available

No data available

No data available

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Solid content:

Sublimation point:

No data available

No data available

Softening point:

No data available

Pour point:

No data available

No data available

No data available:

Viscosity / dynamic:

Flow time:

No data available

No data available

Further Information
No data available

# **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

No data available

## 10.2. Chemical stability

No data available

## 10.3. Possibility of hazardous reactions

No data available

# 10.4. Conditions to avoid

Heat

## 10.5. Incompatible materials

Rubber articles

Plastic articles

metals (including their alloys)

#### 10.6. Hazardous decomposition products

No data available

## **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

Avoid exposure - obtain special instructions before use.

#### Acute toxicity

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

If swallowed danger of perforation of the esophagus and the stomach (strong corrosive effects). Irritation to respiratory tract

#### **ATEmix calculated**

ATE (oral) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l



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CAS No	Chemical name					
	Exposure route	Dose		Species	Source	Method
108-95-2	phenol					
	oral	LD50 mg/kg	530	Rat	J Pharmacol Exp 80: 233-240 (194	
	dermal	LD50 mg/kg	850	Rabbit	Am Ind Hyg Asso 37: 596-606 (197	
	inhalation vapour	ATE	3 mg/l			
	inhalation dust/mist	ATE	0,5 mg/l			

# Irritation and corrosivity

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

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

Risk of serious damage to eyes.

## 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

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

Organs affected:

central nervous system

kidneys

liver

# **Aspiration hazard**

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

## Information on likely routes of exposure

There are no data available on the mixture itself.

## Specific effects in experiment on an animal

There are no data available on the mixture itself.

## Additional information on tests

There are no data available on the mixture itself.

#### **Practical experience**

There are no data available on the mixture itself.

# 11.2. Information on other hazards

# **Endocrine disrupting properties**

There are no data available on the mixture itself.

#### Other information

There are no data available on the mixture itself.

#### **Further information**

Irritant, corrosive

Dyspnoea, Cough

Dizziness, Dizziness

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Inebriation, Cardiac arrhythmias Circulatory collapse, Headache Respiratory complaints, Unconsciousness Risk of serious damage to eyes.

# **SECTION 12: Ecological information**

#### 12.1. Toxicity

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

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 mg/l	61,1	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 mg/l	0,077	60 d	Cirrhina mrigala	Publication (1984)	Method: other
	Crustacea toxicity	NOEC mg/l	0,16	16 d	Daphnia magna	Ecotoxicol. Envir. Saf. 15: 72-77 (1988)	other: NEN 6502

# 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
108-95-2	phenol	1,47

# **BCF**

CAS No	Chemical name	BCF	Species	Source
108-95-2	phenol	17,5	Danio rerio	Publication (1985)

## 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.

## 12.7. Other adverse effects

Discharge into the environment must be avoided.

## **Further information**

Do not allow to enter into surface water or drains.

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# **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 hazardous waste incinerator facility under observation of official regulations.

Do not mix with other wastes.

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 2922

14.2. UN proper shipping name: CORROSIVE LIQUID, TOXIC, N.O.S. (phenol)

14.3. Transport hazard class(es): Ш 14.4. Packing group: 8+6.1 Hazard label: CT1 Classification code: 274 **Special Provisions:** 1 I Limited quantity: E2 **Excepted quantity:** 2 Transport category: 86 Hazard No: Tunnel restriction code: Ε

Inland waterways transport (ADN)

14.1. UN number or ID number: UN 2922

14.2. UN proper shipping name: CORROSIVE LIQUID, TOXIC, N.O.S. (phenol)

14.3. Transport hazard class(es):814.4. Packing group:IIHazard label:8+6.1Classification code:CT1Special Provisions:274 802Limited quantity:1 LExcepted quantity:E2

Marine transport (IMDG)

14.1. UN number or ID number: UN 2922

14.2. UN proper shipping name: CORROSIVE LIQUID, TOXIC, N.O.S. (phenol)

14.3. Transport hazard class(es):814.4. Packing group:IIHazard label:8+6.1Special Provisions:274Limited quantity:1 LExcepted quantity:E2EmS:F-A, S-B

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number or ID number: UN 2922



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14.2. UN proper shipping name: CORROSIVE LIQUID, TOXIC, N.O.S. (phenol)

14.3. Transport hazard class(es):814.4. Packing group:IIHazard label:8+6.1Special Provisions:A3 A803Limited quantity Passenger:0.5 LPassenger LQ:Y840Excepted quantity:E2

IATA-packing instructions - Passenger:851IATA-max. quantity - Passenger:1 LIATA-packing instructions - Cargo:855IATA-max. quantity - Cargo:30 L

14.5. Environmental hazards

FNVIRONMENTALLY HAZARDOUS: No

14.6. Special precautions for user

No dangerous good in sense of this transport regulation.

## 14.7. Maritime transport in bulk according to IMO instruments

No dangerous good in sense of this transport regulation.

## **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 75

Information according to Directive

2012/18/EU (SEVESO III):

**H2 ACUTE TOXIC** 

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. Observe employment restrictions for women of

child-bearing age.

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): 9.

## Abbreviations and acronyms

Acute Tox. 3: Acute toxicity, hazard category 3
Skin Corr. 1B: Skin corrosion, sub-category 1B
Eye Dam. 1: Serious eye damage, hazard category 1
Muta. 2: Germ cell mutagenicity, hazard category 2

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



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

Classification	Classification procedure		
Muta. 2; H341	Calculation method		
Skin Corr. 1B; H314	Calculation method		
Eye Dam. 1; H318	Calculation method		

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

	·
H301	Toxic if swallowed.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H331	Toxic if inhaled.
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.

Provide appropriate information, instructions and training to users

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