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Printing date 18.01.2022

Revision: 18.01.2022

Version number 7.03 (replaces version 7.02)

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

- · 1.1 Product identifier
- · Trade name: Phenol water-saturated, stabilized
- · Article number: A1624
- · Application of the substance / the mixture Laboratory chemicals
- · 1.3 Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

AppliChem GmbH Tel.: +49 (0)6151 93570
Ottoweg 4 Fax.: +49 (0)6151 935711
D-64291 Darmstadt msds@applichem.com

- · Further information obtainable from: Dept. Compliance
- 1.4 Emergency telephone number: +49(0)6151 93570 (Inside normal buisness hours)

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

- · 2.1 Classification of the substance or mixture
- Classification according to Regulation (EC) No 1272/2008

Acute Tox. 4 H302 Harmful if swallowed.

Acute Tox. 3 H311 Toxic in contact with skin.

Acute Tox. 3 H331 Toxic if inhaled.

Skin Corr. 1B H314 Causes severe skin burns and eye damage.

Eye Dam. 1 H318 Causes serious eye damage.

Muta. 2 H341 Suspected of causing genetic defects.

STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.

- · 2.2 Label elements
- · Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

· Hazard pictograms









GHS05 GHS06 GHS08 GHS09

- · Signal word Danger
- · Hazard-determining components of labelling:

Phenol crystalline quinolin-8-ol

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· Hazard statements

H302 Harmful if swallowed.

H311+H331 Toxic in contact with skin or if inhaled.
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** 

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.

P321 Specific treatment (see on this label).

P361+P364 Take off immediately all contaminated clothing and wash it before reuse.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/

international regulations.

· Additional information:

EUH208 Contains quinolin-8-ol. May produce an allergic reaction.

- · 2.3 Other hazards
- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable. · **vPvB:** Not applicable.

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

- · 3.2 Mixtures
- **Description:** Mixture: consisting of the following components.

· Dangerous components:					
CAS: 108-95-2 EINECS: 203-632-7 Reg.nr.: 01-2119471329-32- XXXX	Phenol crystalline Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331; Muta. 2, H341; STOT RE 2, H373; Skin Corr. 1B, H314 Specific concentration limits: Skin Corr. 1B; H314: $C \ge 3$ % Skin Irrit. 2; H315: $1 \% \le C < 3 \%$ Eye Irrit. 2; H319: $1 \% \le C < 3 \%$	>50-<100%			
CAS: 148-24-3 EINECS: 205-711-1	quinolin-8-ol Acute Tox. 3, H301; Repr. 1B, H360D; Eye Dam. 1, H318; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Sens. 1, H317	≤0.1%			

<sup>•</sup> Additional information: For the wording of the listed hazard phrases refer to section 16.

## **SECTION 4: First aid measures**

- 4.1 Description of first aid measures
- · General information:

Personal protection for the First Aider.

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

Remove breathing equipment only after contaminated clothing have been completely removed.

In case of irregular breathing or respiratory arrest provide artificial respiration.

Involve doctor immediately.

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· After inhalation:

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Call a doctor immediately.

Supply fresh air or oxygen; call for doctor. In case of unconsciousness place patient stably in side position for transportation.

If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.

After skin contact:

Call a doctor immediately.

Wash with polyethylene glycol 400 and then rinse with plenty amounts of water.

Immediately remove any clothing soiled by the product.

· After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.

After swallowing:

Rinse out mouth.

Do not induce vomiting; call for medical help immediately.

4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

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

No further relevant information available.

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

- · 5.1 Extinguishing media
- Suitable extinguishing agents:

CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

5.2 Special hazards arising from the substance or mixture

In case of fire, the following can be released:

Carbon monoxide and carbon dioxide

Non-combustible.

- · 5.3 Advice for firefighters
- · Protective equipment:

Mouth respiratory protective device.

Wear self-contained respiratory protective device.

· Additional information

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations. Contain escaping vapours with water.

## **SECTION 6: Accidental release measures**

#### · 6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

Avoid substance contact.

Do not inhale steams/aerosols.

## · 6.2 Environmental precautions:

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers/ surface or ground water.

### · 6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Use neutralising agent.

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

Clean up affected area.

#### · 6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

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## **SECTION 7: Handling and storage**

#### · 7.1 Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

Prevent formation of aerosols.

· Information about fire - and explosion protection:

Keep respiratory protective device available.

The product is not flammable.

- 7.2 Conditions for safe storage, including any incompatibilities
- · Storage:
- · Requirements to be met by storerooms and receptacles: Prevent any seepage into the ground.
- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions:

Store under inert gas.

Protect from exposure to the light.

Keep container tightly sealed.

Open receptacle only under localised extractor facilities.

Store receptacle in a well ventilated area.

Store under lock and key and with access restricted to technical experts or their assistants only.

- · Recommended storage temperature: +2 +8°C
- · Storage class: 6.1 B
- · 7.3 Specific end use(s) No further relevant information available.

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

- · 8.1 Control parameters
- Ingredients with limit values that require monitoring at the workplace:

#### 108-95-2 Phenol crystalline

WEL Short-term value: 16 mg/m³, 4 ppm

Long-term value: 7.8 mg/m³, 2 ppm

Sk

- · Additional information: The lists valid during the making were used as basis.
- · 8.2 Exposure controls
- · Appropriate engineering controls No further data; see item 7.
- · Individual protection measures, such as personal protective equipment
- · General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Store protective clothing separately.

Avoid contact with the eyes and skin.

· Respiratory protection:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

- Recommended filter device for short term use: Filter AX
- · Hand protection



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

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Material of gloves

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The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

For the permanent contact gloves made of the following materials are suitable:

Butyl rubber, BR

Recommended thickness of the material:  $\geq 0.3$  mm

Value for the permeation: Level  $\geq$  480 min

As protection from splashes gloves made of the following materials are suitable:

Butyl rubber, BR

Recommended thickness of the material: ≥ 0.11 mm

Value for the permeation: Level ≥ 120 min

· Eye/face protection



Tightly sealed goggles

· Body protection:

Use protective suit.

Full head, face and neck protection

Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazourdous substances handled.

## **SECTION 9: Physical and chemical properties**

· 9.1 Information on basic physical and chemical properties

· General Information

Physical state
Colour:
Odour:
Odour threshold:
Melting point/freezing point:

Fluid

different
Characteristic
Not determined.

Undetermined.

Boiling point or initial boiling point and boiling

range Undetermined.
• Flammability Not applicable.

· Lower and upper explosion limit

Lower: 1.8 Vol %
 Upper: 8.6 Vol %
 Flash point: Not applicable.

• **Auto-ignition temperature:** Product is not selfigniting.

· **Decomposition temperature:** Not determined.

· pH at 20 °C ~4

· Viscosity:

Kinematic viscosity
 Dynamic:
 Partition coefficient n-octanol/water (log value)
 Not determined.
 Not determined.

· Vapour pressure at 20 °C: 23 hPa

Density and/or relative density

Density: Not determined.
Relative density Not determined.
Vapour density Not determined.

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· 9.2 Other information

· Appearance:

· Form: Fluid

· Important information on protection of health

and environment, and on safety.

· Ignition temperature: 595 °C

• **Explosive properties:** Product does not present an explosion hazard.

· Solvent content:

Organic solvents: 75.0 %
 Water: 24.9 %
 Solids content: 75.1 %

· Change in condition

• Evaporation rate Not determined.

Information with regard to physical hazard

classes · Explosives Void Void Flammable gases · Aerosols Void · Oxidising gases Void · Gases under pressure Void · Flammable liquids Void · Flammable solids Void · Self-reactive substances and mixtures Void Void

Pyrophoric solids

• Pyrophoric solids

• Self-heating substances and mixtures

• Void

• Void

• Void

• Void

• Void

• Void

· Substances and mixtures, which emit

flammable gases in contact with water

Oxidising liquids
Oxidising solids
Organic peroxides
Corrosive to metals
Oxidised explosives
Void
Void
Void
Void

#### **SECTION 10: Stability and reactivity**

- · 10.1 Reactivity No further relevant information available.
- 10.2 Chemical stability
- · Thermal decomposition / conditions to be avoided: Heating.
- 10.3 Possibility of hazardous reactions

Violent reactions possible with:

oxidizing agent

aldehydes

halogens

hydrogen peroxide, iron(III) compounds

alkalis

Strong exothermic reaction with acids.

Risk of explosion with:

nitrates, nitrites, peroxi compounds, strong oxidizing agents

- 10.4 Conditions to avoid No further relevant information available.
- · 10.5 Incompatible materials: No further relevant information available.
- · 10.6 Hazardous decomposition products: In the event of fire: See chapter 5
- · Additional information:

hygroscopic

light sensitive

Forms explosive mixtures with air on intense heating.

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sensitive to air

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### **SECTION 11: Toxicological information**

- 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008
- · Acute toxicity

Harmful if swallowed.

Toxic in contact with skin or if inhaled.

LD/LC50 values relevant for classification:

· Compone	ents	Туре	Value	Species	
ATE (Acu	ATE (Acute Toxicity Estimates)				
Oral	LD50	423 mg/kg (rat)			
Dermal	LD50	892 mg/kg (rat)			
Inhalative	LC50/4 h	0.67 mg/l			

108-95-2 I	108-95-2 Phenol crystalline		
Oral	LD50	317 mg/kg (rat)	
Dermal	LD50	669 mg/kg (rat)	
		850 mg/kg (rabbit)	
Inhalative	LC50	316 mg/l (rat)	
	LC50/4 h	0.5 mg/l (ATE)	

· Skin corrosion/irritation

Causes severe skin burns and eye damage.

· Serious eye damage/irritation

Causes serious eye damage.

- · After inhalation: Strong caustic effect on skin and mucous membranes.
- · Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- · Germ cell mutagenicity

Suspected of causing genetic defects.

- · 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.

- Aspiration hazard Based on available data, the classification criteria are not met.
- 11.2 Information on other hazards
- · Endocrine disrupting properties

None of the ingredients is listed.

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

- · 12.1 Toxicity
- · Aquatic toxicity: No further relevant information available.
- · Type of test Effective concentration Method Assessment

#### 108-95-2 Phenol crystalline

EC50 25 mg/l (Bakterien)

100 mg/l (daphnia magna)

44.5 mg/l (fish)

- · 12.2 Persistence and degradability The product is easily biodegradable.
- · 12.3 Bioaccumulative potential

Due to the distribution coefficient n-octanol/water a worth-mentioning accumulation in organisms is not expected.

· 12.4 Mobility in soil No further relevant information available.

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· 12.5 Results of PBT and vPvB assessment

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- · PBT: Not applicable.
- vPvB: Not applicable.
- 12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

- 12.7 Other adverse effects
- · Remark: Toxic for fish
- Additional ecological information:
- · General notes:

Also poisonous for fish and plankton in water bodies.

Toxic for aquatic organisms

Do not allow product to reach ground water, water course or sewage system.

Must not reach sewage water or drainage ditch undiluted or unneutralised.

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water

Danger to drinking water if even small quantities leak into the ground.

## **SECTION 13: Disposal considerations**

- · 13.1 Waste treatment methods
- · Recommendation

Chemicals must be disposed of in compliance with the respective national regulations.

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

- Uncleaned packaging:
- · Recommendation:

Disposal must be made according to official regulations.

Packagings that may not be cleansed are to be disposed of in the same manner as the product.

SECTION 14: Transport inform	ation
· 14.1 UN number or ID number · ADR, IMDG, IATA	UN2821
· 14.2 UN proper shipping name · ADR	PHENOL SOLUTION, ENVIRONMENTALLY HAZARDOUS
· IMDG · IATA	PHENOL SOLUTION, MARINE POLLUTANT PHENOL SOLUTION
· 14.3 Transport hazard class(es)	
ADR	
· Class · Label	6.1 (T1) Toxic substances. 6.1
·IMDG	
· Class	6.1 Toxic substances.

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· Label	6.1
· IATA	
\$ C.	
Class	6.1 Toxic substances.
· Label	6.1
· 14.4 Packing group · ADR, IMDG, IATA	П
· 14.5 Environmental hazards: · Marine pollutant:	Product contains environmentally hazardous substances: quinolin-8-ol YES
•	Symbol (fish and tree)
Special marking (ADR):	Symbol (fish and tree)
<ul> <li>14.6 Special precautions for user</li> <li>Hazard identification number (Kemler code)</li> <li>EMS Number:</li> <li>Stowage Category</li> </ul>	Warning: Toxic substances. : 60 F-A,S-A A
· 14.7 Maritime transport in bulk according to IMO instruments	Not applicable.
· Transport/Additional information:	
· ADR · Limited quantities (LQ) · Excepted quantities (EQ)	100 ml Code: E4 Maximum net quantity per inner packaging: 1 ml Maximum net quantity per outer packaging: 500 ml
· Transport category · Tunnel restriction code	2 D/E
· IMDG · Limited quantities (LQ) · Excepted quantities (EQ)	100 ml Code: E4 Maximum net quantity per inner packaging: 1 ml Maximum net quantity per outer packaging: 500 ml
· UN "Model Regulation":	UN 2821 PHENOL SOLUTION, 6.1, II, ENVIRONMENTALLY HAZARDOUS

## **SECTION 15: Regulatory information**

- · 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I None of the ingredients is listed.
- · Seveso category

H2 ACUTE TOXIC

E2 Hazardous to the Aquatic Environment

- Qualifying quantity (tonnes) for the application of lower-tier requirements 50 t
- Qualifying quantity (tonnes) for the application of upper-tier requirements 200 t

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- · National regulations:
- · Other regulations, limitations and prohibitive regulations
- Substances of very high concern (SVHC) according to REACH, Article 57

None of the ingredients is listed.

· 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

#### **SECTION 16: Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

#### · Relevant phrases

- H301 Toxic if swallowed.
- H311 Toxic in contact with skin.
- H314 Causes severe skin burns and eye damage.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H331 Toxic if inhaled.
- H341 Suspected of causing genetic defects.
- H360D May damage the unborn child.
- May cause damage to organs through prolonged or repeated exposure.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.
- · Department issuing SDS: Dept. Compliance
- Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

ADR: Accord relatif au transport international 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 Harmonised 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 (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative

Acute Tox. 3: Acute toxicity – Category 3 Acute Tox. 4: Acute toxicity – Category 4

Skin Corr. 1B: Skin corrosion/irritation - Category 1B

Eye Dam. 1: Serious eye damage/eye irritation - Category 1

Skin Sens. 1: Skin sensitisation - Category 1

Muta. 2: Germ cell mutagenicity - Category 2

Repr. 1B: Reproductive toxicity - Category 1B

STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard - Category 1

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

\* Data compared to the previous version altered.