

Safety Data Sheet

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

Revision Date: 17.08.2022 Version 2

TEKKİM

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

1.1 Product identifier

Catalog No. TK.201120.00000
Product Name Phenol (Liquid)
Cas no 108-95-2

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

1.2.1. Relevant identified uses

Industrial use. Use as a laboratory reagent.

1.2.2. Uses advised against

No information available.

1.3. Details of the supplier of the safety data sheet

Name TEKKİM KİMYA SAN. TİC. LTD. ŞTİ.
Street ORGANİZE SAN. BÖL. MAVİ CAD. 8. SOK. NO :1 NİLÜFER / BURSA
Telephone 0224 243 21 71
E-mail erhan@tekkim.com.tr
Company Representative Erhan DİLER

1.4 Emergency Telephone Number +90 506 990 36 86

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 (CLP)

Acute toxicity, Oral, Category 3
Acute toxicity, By inhalation, Category 3
Acute toxicity, Dermal, Category 3
Skin abrasion, Subcategory 1B
Serious eye damage, Category 1
Germ cell mutagenicity, Category 2
Specific Target Organ Toxicity – Repeated exposure, Category 1, Central nervous system, Kidney, Liver, Skin
Long (chronic) aquatic hazard, Category 2

For the full text of the H and EUH statements referred to in this section, see section 16.

2.2 Label elements

Labelling according to Regulation (EC) No. 1272/2008 (CLP)

Hazard pictograms



Signal word (SEA)

DANGER


Hazard Statements (SEA)

H301 + H311 + H331 Toxic if swallowed, 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. (Central nervous system, Kidney, Liver, Skin)
H411 Toxic to aquatic life with long lasting effects.

Precautionary Statements (SEA)



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Factory: O.S.B Mavi Cadde 8.Sokak No:1 Nilüfer - BURSA | TURKEY
+90 224 243 21 71 (pbx) | Fax: +90 224 242 97 66
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Prevention

- P201 Read special instructions before use.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.

Intervention

- P301+P310 IF SWALLOWED: Call a NATIONAL POISON CENTER or doctor/physician.
P303+P361+P353 IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse your skin with water/shower.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if fitted and easy to do. Continue rinsing.
P310 Immediately call a NATIONAL POISON CENTER or doctor/physician.

SECTION 3: Composition/information on ingredients

Classification according to Regulation (EC) No. 1272/2008 (CLP)

3.1 Maddeler

EC No	203-632-7
Molar mass	94.11 g/mol
Cas No	108-95-2
Concentration	(>= 90 % - <= 100 %)

SECTION 4: First aid measures

4.1 Description of first aid measures

General information	In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).
Following inhalation	Remove to fresh air. Call a doctor. If breathing stops: apply mechanical respiration immediately, with oxygen if necessary.
Following skin contact	After skin contact: Cleanse with polyethylene glycol 400 or polyethylene glycol 300/ethanol 2:1 mixture and rinse with plenty of water.
Following eye contact	In case of contact with eyes, rinse eyelids with water for 10-15 minutes. See a doctor immediately.
Following ingestion	Give up to two glasses of water. Get medical help immediately. Do not try to neutralize. Only in exceptional cases; if medical assistance is not available within one hour, induce vomiting (only if the person is awake and fully conscious). After: activated charcoal (20 - 40g in 10% solution).

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling

4.3 Indication of any immediate medical attention and special treatment needed

No information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water spray, alcohol-resistant foam, dry extinguishing powder, carbon dioxide (CO₂).

Unsuitable extinguishing media

There is no restriction for this item.

5.2 Special hazards arising from the substance or mixture

Flammable. Heavy-than-air vapors may form on the floor surface. May form explosive mixture with air at intense temperatures. In case of fire, dangerous flammable gases or vapors may develop.

5.3 Advice for firefighters

Special protective equipment for firefighters

Do not stay in dangerous zone without self-contained breathing apparatus. Keep a safe distance to cut off contact with skin and wear suitable protective clothing.

5.4 Additional information



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Stop and contain spill/release if it can be done safely. If this cannot be done, allow fire to burn under control.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Don't breathe vapours, aerosols. Avoid substance contact. Keep away from head and source of ignition. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert.

6.2 Environmental precautions

Do not allow to enter into surface water or drains.

6.3 Methods and material for containment and cleaning up

Close drainage channels. Take up with liquid-absorbent material. Clean the affected area.

6.4 Reference to other sections

Disposal: see section 13.

6.5 Additional information

Clear spills immediately.

SECTION 7: Handling and Storage

7.1 Precautions for safe handling

Advices on safe handling

Observe label precautions. Work under hood. Do not inhale substance/mixture. Avoid generation of vapours/aerosols.

Advices on general occupational hygiene

Change contaminated clothing. Wash hands after working with substance. It is recommended to use a skin protection cream.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions

Keep container tightly closed in dry and well-ventilated places. Keep away from heat and anything that can cause ignition.

7.3 Specific end uses

There are no other specific uses other than those mentioned in section 1.2.

SECTION 8: Exposure controls / personal protection

8.1 Control parameters

Phenol		(108-95-2)
EN MAK	Acceptable maximum concentration (MAK)	5 mbp 19 mg/m ³
EN OEL	8-hour fixed for reference time measured or calculated time weighted average (TWA): another time unless specified, 15 for a minute not to be exceeded exposure upper limit value (STEL):	2 mbp 8 mg/m ³ 4 mbp 16 mg/m ³


8.2 Exposure controls

Appropriate engineering controls

More attention should be paid to technical measures against the use of personal protective equipment.



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Personal protection equipment

Eye/face protection

Fully fitting safety glasses

Hand protection

Hand protection

in full contact

Glove material : Butyl rubber

Glove thickness: 0,30 mm

Absorption time: > 480 minutes

In contact with splash

Glove material : Nitrile rubber

Glove thickness: 0.11 mm

Absorption time: > 120 minutes

The gloves to be used must comply with the specifications of EC directive 89/686/EEC and the resulting standard EN374.

Other skin protection

Flame retardant antistatic protective clothing.

Respiratory protection

Required when vapors are generated.

Recommended Filter type: Filter A (according to DIN 3181), for vapors of organic compounds.

SECTION 9: Physical and chemical Properties

9.1 Information on basic physical and chemical properties

Physical state	Liquid
Colour	Colorless
Odour	Characteristic
Odour threshold	No information.
pH value	No information.
Melting point/freezing point	No information.
Freezing point	< 50 °C
Initial boiling point and boiling range	181.8 °C
Flash point	79 °C
Evaporation rate	No information.
Flammability (solid, gas)	715 °C
Upper/lower flammability or explosive limits	1.7 %(V)
Upper/lower flammability or explosive limits	8.6 %(V)
Vapour pressure	0.5 hPa 20 °C
Vapour density	No information.
Density	1.05 g/cm ³ 20 °C
Relative density	No information.
Water solubility (g/l)	80 g/l 20 °C
Fat solubility (g/l)	No information.
Partition coefficient: n-octanol/water	No information.
Auto-ignition temperature	No information.
Decomposition temperature	No information.


Viscosity

Kinematic viscosity	No information.
Dynamic viscosity	No information.
Explosive properties	Not classified as explosive
Oxidising properties	none

SECTION 10: Stability and Reactivity



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10.1 Reactivity

Section 10.3 to see.

10.2 Chemical stability

Hygroscopic. Light sensitive.

10.3 Possibility of hazardous reactions

No information available.

10.4 Conditions to avoid

Heat, flames and sparks.

10.5 Incompatible materials

Strong bases, Strong oxidizing agents, Strong acids

10.6 Hazardous decomposition products

No known hazardous decomposition products.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute oral toxicity

Symptoms: If swallowed, there is a risk of perforation of the esophagus and stomach, with severe burning of the mouth and throat.

Acute inhalation toxicity

Symptoms: mucosal irritations, Cough, Shortness of breath, Possible damages:, damage of respiratory tract

Acute dermal toxicity

LD50 Rat: 660 mg/kg

OECD Test Guideline 402

Skin irritation

In vitro study

Result: Causes burns.

OECD Test Guideline 431

Causes burns.

Eye irritation

Causes serious eye damage. Risk of blindness!

Rabbit

Result: Abrasive

OECD Test Guideline 405

Germ cell mutagenicity

In vitro genotoxicity

Mutagenicity (mammal cell test): chromosome disruption.

Result: positive

Method: OECD Test Guideline 473

CMR effects

Mutagenicity:

Suspected of causing genetic damage.

Specific Target Organ Toxicity - Repeated exposure

May cause damage to organs through prolonged or repeated exposure.

Target Organs: Nervous system, Kidney, Liver, Skin

11.2 Additional information


Handle in accordance with good industrial hygiene and safety practice.

SECTION 12: Ecological information

12.1 Toxicity



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Toxicity to fish

LC50 Oncorhynchus mykiss (Rainbow trout): 5.0 mg/l; 96 h (ECOTOX Database)

Toxicity to daphnia and other aquatic invertebrates

static test EC50 Ceriodaphnia dubia (dappie): 3.1 mg/l; 48 hours US-EPA

Toxicity to algae (algae)

IC5 Scenedesmus quadricauda (green algae): 7.5 mg/l; 8 g (IUCLID)

static test EC50 Pseudokirchneriella subcapitata: 61.1 mg/l; 96 h US-EPA

Toxicity to bacteria

EC50 active waste: 766 mg/l; 3 hours OECD Test Guideline OECD 209

12.2 Persistence and degradability

No information available.

12.3 Bioaccumulative potential

No information available.

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

Substance does not meet the criteria for PBT or vPvB.

12.6 Other adverse effects

Discharge into environment must be avoided.

SECTION 13: Disposal considerations

Waste treatment methods

It must be disposed of in accordance with national and local regulations. Do not mix with other products. Uncleaned Treat packages as if it were the product itself ... Waste materials must be disposed of in accordance with national and local regulations.

SECTION 14: Transport information

ADR	IMDG	IATA	ADN	RID
14.1 UN number UN 2821	UN 2821	UN 2821	UN 2821	UN 2821
14.2 UN proper shipping name PHENOL SOLUTION	PHENOL SOLUTION	PHENOL SOLUTION	PHENOL SOLUTION	PHENOL SOLUTION

14.3 Transport hazard class(es)

6.1 6.1 6.1 6.1 6.1



14.4 Packing group

II II II II II

14.5 Environmental hazards



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YES YES YES YES YES

No information available. No information available. No information available. No information available. No information available.

14.6 Special Precautions for User:

No information available.

SECTION 15: Regulatory information

15.1 Safety, health and environmental legislation specific for the substance or mixture

This product safety data sheet complies with the requirements of EU Regulation 1907/2006.

15.2 Chemical Safety Assessment

A Chemical Safety Assessment has not been conducted for this substance.

SECTION 16: Other informations

Full text of H statements

H301 + H311 + H331 Toxic if swallowed, 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. (Central nervous system, Kidney, Liver, Skin)


H411 Toxic to aquatic life with long lasting effects.

Person Who Prepared the Safety Data Sheet:

Name: Erhan DİLER
Certificate Number and Date: 11.29.03 & 11 Şubat 2020
Communication information: 05069903686



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