

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.201123.00000
Product Name Phenol (Crystallized)
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
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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 Corrosion, Subcategory 1B
Serious eye damage, Category 1
Germ cell mutagenicity, Category 2
Specific Target Organ Toxicity – Repeated exposure, Category 2, 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. (Nervous system, Kidney, Liver, Skin)
H411 Toxic to aquatic life with long lasting effects.

Precautionary Statements (SEA)



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Prevention

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

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

Intervention

P303+P361+P353 IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse your skin with water/shower.

P304+P340 IF INHALED: Move victim to fresh air and keep in a position comfortable for breathing.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if fitted and easy to do. Continue rinsing.

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	(<= 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: polyethylene glycol 400 or polyethylene glycol Clean with 300/ethanol 2:1 mixture and rinse with copious amounts of water. If none is found, wash with plenty of water. Call a doctor immediately.

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

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water. 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

Carbon oxides. Flammable. Heavy-than-air vapors may form on the floor surface. Forms explosive mixtures 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. Avoid generation of dust..

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

Pay attention to the precautions on the label. Work with the title. Do not inhale the substance.

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

Protect from light. Keep container tightly closed in dry and well-ventilated places.

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 OEL	8-hour fixed for reference time measured or calculated time weighted average (TWA):	2 mbp 8 mg/m3
	another time unless specified, 15 for a minute not to be exceeded exposure upper limit value (STEL):	4 mbp 16 mg/m3

8.2 Exposure controls

Appropriate engineering controls

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

Personal protection equipment

Eye/face protection

Fully fitting safety glasses



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Hand protection

Hand protection

in full contact

Glove material : Viton

Glove thickness: 0.70 mm

Absorption time: > 480 minutes

In contact with splash

Glove material : Viton

Glove thickness: 0.70 mm

Absorption time: > 480 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

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	Crystalline solid
Colour	Colorless
Odour	Angle
Odour threshold	0.005 ppm
pH value	5,0 50 g/l 20 °C
Melting point/freezing point	38 - 43 °C
Freezing point	No information.
Initial boiling point and boiling range	181 °C 1,013 hPa
Flash point	81 °C 1.013 hPa
Evaporation rate	No information.
Flammability (solid, gas)	715 °C 1.013 hPa
Upper/lower flammability or explosive limits	1,3 % (V)
Upper/lower flammability or explosive limits	9.5 % (V)
Vapour pressure	0.53 hPa 20 °C
Vapour density	3.2 20 °C
Density	1.13 g/cm ³ 25 °C
Relative density	No information.
Water solubility (g/l)	87 g/l 25 °C
Fat solubility (g/l)	No information.
Partition coefficient: n-octanol/water	logPOW: 1.47 30 °C - (ECHA) Bioaccumulation is not expected.
Auto-ignition temperature	No information.
Decomposition temperature	No information.
Viscosity	
Kinematic viscosity	No information.
Dynamic viscosity	3,437 Pa 50 °C
Explosive properties	Not classified as explosive.
Oxidising properties	No information.

SECTION 10: Stability and Reactivity

10.1 Reactivity

Forms explosive mixtures with air at intense temperatures.

10.2 Chemical stability



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The product is stable under storage at normal ambient temperatures.

10.3 Possibility of hazardous reactions

Aluminum, aldehydes, halogens, hydrogen peroxide, iron (III) compound, oxidizing agents, strong acids, strong bases, may exothermic reaction with formaldehyde.

There is a risk of explosion with nitrites, nitrates, salts of oxyhalogenic acids, peroxy compounds.

10.4 Conditions to avoid

Powerful heating.

10.5 Incompatible materials

Rubber, various plastics, various alloys, various metals.

10.6 Hazardous decomposition products

No known hazardous decomposition products.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute respiratory toxicity

Estimated acute toxicity by inhalation - 0.51 mg/l
(Expert decision)

Acute dermal toxicity

LD50 Dermal - Rat - female - 660 mg/kg
(OECD Testing Guide 402)

Skin corrosion/irritation

Skin - In vitro study

Result: Causes burns.

(OECD Testing Guide 431)

Eye irritation

Eyes - Rabbit

Result: Abrasive

(OECD Testing Guide 405)

Causes serious eye damage. Risk of blindness!

Germ cell mutagenicity

Suspected of causing genetic damage.

Test Type: Mutagenicity (mammalian cell test): chromosome aberration.

Test system: Chinese hamster ovary cells

Metabolic activation: Metabolic activation

Method: OECD Test Guidelines 473

Specific Target Organ Toxicity – Repeated exposure

May cause damage to organs through prolonged or repeated exposure. - Nervous system, Kidney, Liver, Skin

11.2 Additional information

The product has an extremely destructive effect on mucous membranes and tissues of the upper respiratory tract, eyes and skin. Laryngeal spasm, inflammation and edema, bronchial spasm, inflammation and edema, burning sensation, cough, wheezing, shortness of breath, headache, nausea, vomiting, circulatory dysfunction, paralysis, jaundice, respiratory failure, cardiac arrest.

SECTION 12: Ecological information

12.1 Toxicity



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Toxicity to fish
flow-through test LC50 - Onchorhynchus clarki - 8.9 mg/l - 96 h
(US-EPA)

Toxicity to daphnia and other aquatic invertebrates
static test EC50 - Ceriodaphnia dubia (dappie) - 3.1 mg/l - 48 h
(US-EPA)

Toxicity to algae (algae)
static test EC50 - Pseudokirchneriella subcapitata - 61.1 mg/l - 96 h
(US-EPA)

Toxicity to bacteria
static test IC50 - microorganisms - 21 mg/l - 24 h
(ECHA)

12.2 Persistence and degradability

Biodegradability
aerobic (aerobic) - Exposure time 100 h
Result: 62% - Easily degradable.
(OECD Test Guide 301 C)

12.3 Bioaccumulative potential

Bioaccumulation
Danio rerio (zebrafish) - 5 h
at 25 °C - 2 mg/l(Phenol)

Danio rerio (zebrafish) - 5 h
at 25 °C - 2 mg/l(Phenol)
It does not bioaccumulate.

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

Forms corrosive mixtures even when diluted. It endangers drinking water supplies if allowed to enter soil or water.
Discharge into the environment should be prevented.

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 1671	UN 1671	UN 1671	UN 1671	UN 1671
14.2 UN proper shipping name				
PHENOL SOLID	PHENOL SOLID	PHENOL SOLID	PHENOL SOLID	PHENOL SOLID
14.3 Transport hazard class(es)				
6.1	6.1	6.1	6.1	6.1



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14.4 Packing group

II

II

II

II

II

14.5 Environmental hazards

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. (Nervous system, Kidney, Liver, Skin)

H411 Toxic to aquatic life with long lasting effects.

Person Who Prepared the Safety Data Sheet:

Name:

Certificate Number and Date:

Communication information:

Erhan DİLER

11.29.03 & 11 Şubat 2020

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