

Safety Data Sheet

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

Revision Date: 23.11.2022 Version 2

TEKKİM

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

1.1 Product identifier

Catalog No. TK.930127.00000
Product Name Chlorobenzene
Cas no 108-90-7

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

1.2.1. Relevant identified uses

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)

Flammable liquids, Category 3
Acute toxicity, By inhalation, Category 4
Skin irritation, Category 2
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)

WARNING

Hazard Statements (SEA)

H226 Flammable liquid and vapour.
H315 Causes skin irritation.
H332 Harmful by inhalation.
H411 Toxic to aquatic life with long lasting effects.

Precautionary Statements (SEA)



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Prevention

- P210 Keep away from heat/sparks/open flames/hot surfaces. -No smoking.
P233 Keep container tightly closed.
P240 Ground/connect container or receiving equipment.
P273 Avoid release to the environment.

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.

SECTION 3: Composition/information on ingredients

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

3.1 Maddeler

EC No	203-628-5
Molar mass	112.56 g/mol
Cas No	108-90-7
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	Wash with plenty of water. Take off contaminated clothing.
Following eye contact	Rinse immediately carefully and thoroughly with eye-bath or water..
Following ingestion	Give up to two glasses of water. Get medical help immediately.

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. 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. Hydrogen chloride gas. Flammable. Fire may cause evolution of: Hydrogen chloride gas, phosgene. Heavy-than-air vapors may form on the floor surface. Forms explosive mixtures with air at elevated 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


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



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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 discharge into sewer. Risk of explosion.

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

Pay attention to the precautions on the label. Keep the work area dry. Do not allow the product to come into contact with water. Work with the title.

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 a dry and well-ventilated place. 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

Chlorobenzene	(108-90-7)
TWA (8 Hours)	5 ppm 23 mg/m ³
STEL (15 Min.)	15 ppm 70 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.

Personal protection equipment


Eye/face protection

Safety glasses

Hand protection



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Hand protection

in full contact

Glove material : Viton®

Glove thickness: 0.7 mm

Absorption time: > 480 minutes

In contact with splash

Glove material : Nitrile rubber

Glove thickness: 0.4 mm

Absorption time: > 10 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/aerosols 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	No information.
Initial boiling point and boiling range	132 °C 1.013 hPa
Flash point	27 °C
Evaporation rate	No information.
Flammability (solid, gas)	No information.
Upper/lower flammability or explosive limits	1,3 %(V)
Upper/lower flammability or explosive limits	11 %(V)
Vapour pressure	12 hPa 20 °C
Vapour density	No information.
Density	1,11 g/cm ³ 20 °C
Relative density	No information.
Water solubility (g/l)	0,207 g/l 20 °C
Fat solubility (g/l)	No information.
Partition coefficient: n-octanol/water	log Pow: 2,84 20 °C - Bioaccumulation is not expected.
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


10.1 Reactivity

Vapor/air mixtures are explosive if overheated.

10.2 Chemical stability



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The product is stable under storage at normal ambient temperatures.

10.3 Possibility of hazardous reactions

It can give exothermic reaction with alkali metals, alkaline earth metals, oxidizing agents, dimethyl sulfoxide, nitric acid.

10.4 Conditions to avoid

In case of warming.

10.5 Incompatible materials

Rubber.

10.6 Hazardous decomposition products

No known hazardous decomposition products.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute oral toxicity

LD50 Oral - Rat - male and female - > 2.000 mg/kg
(OECD Testing Guide 401)

Acute respiratory toxicity

LC50 Inhalation - Rat - male - 4 h - 15.57 mg/l
(OECD Testing Guide 403)

Skin corrosion/irritation

Skin - Rabbit

Result: Skin irritation - 4 h
(OECD Testing Guide 404)

11.2 Additional information

Handle in accordance with good industrial hygiene and safety practice

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish

static test LC50 - Lepomis macrochirus (Bluegill sunfish) - 4.5 mg/l - 96 h
(ECHA)

Toxicity to daphnia and other aquatic invertebrates

static test EC50 - Daphnia magna (Water flea) - 26 mg/l - 48 h
(OECD Testing Guide 202)

Toxicity to algae (algae)

static test EC10 - Desmodesmus subspicatus (green algae) - 5.8 mg/l - 72 h
(OECD Testing Guide 201)

Toxicity to bacteria

static test EC50 - activated sludge - 140 mg/l - 30 min
(OECD Testing Guide 209)

12.2 Persistence and degradability

Biodegradability

oxygenated (aerobic) - Exposure time 28 d

Result: 15 % - Not easily degraded.
(OECD Test Guide 301F)

12.3 Bioaccumulative potential

Bioaccumulation

Cyprinus carpio (Carp) - 49 d 25 °C(Chlorbenzole)


Bioconcentration factor (BCF): 3.9 - 23 (OECD Test Guide 305C)

12.4 Mobility in soil

No information available.



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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 1134	UN 1134	UN 1134	UN 1134	UN 1134
14.2 UN proper shipping name CHLOROBENZENE	CHLOROBENZENE	CHLOROBENZENE	CHLOROBENZENE	CHLOROBENZENE
14.3 Transport hazard class(es) 3	3	3	3	3
				
14.4 Packing group III	III	III	III	III
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

- H226 Flammable liquid and vapour.
- H315 Causes skin irritation.
- H332 Harmful by inhalation.
- H411 Toxic to aquatic life with long lasting effects.



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Person Who Prepared the Safety Data Sheet:

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