

Safety Data Sheet

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

Revision Date: 18.08.2022 Version 2



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

1.1 Product identifier

Catalog No. TK.201772.00000
Product Name Benzaldehyde
Cas no 100-52-7

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 4

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)

H302 Harmful if swallowed.

Precautionary Statements (SEA)

Prevention

P264 Wash skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

Intervention

P301+P312 IF SWALLOWED: Call 114 POISON CENTER or doctor/physician if you feel unwell.

SECTION 3: Composition/information on ingredients

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

3.1 Maddeler

EC No 202-860-4
Molar mass 106.12 g/mol
Cas No 100-52-7



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ISO 9001:2015 and ISO 14001:2015

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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

Provide fresh air..

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

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

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

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

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.

Advices on general occupational hygiene



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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

Contains no substances with occupational exposure limit values.

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

Hand protection

in full contact

Glove material : butyl rubber

Glove thickness: 0.70 mm

Absorption time: > 480 minutes

In contact with splash

Glove material : natural latex

Glove thickness: 0.60 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 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



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Physical state	Liquid
Colour	Transparent
Odour	Like bitter almonds.
Odour threshold	No information.
pH value	5.0 - 6.0
Melting point/freezing point	-26 °C
Freezing point	No information.
Initial boiling point and boiling range	179 °C 1,013 hPa
Flash point	64 °C
Evaporation rate	No information.
Flammability (solid, gas)	No information.
Upper/lower flammability or explosive limits	1.4 % (V)
Upper/lower flammability or explosive limits	8.5 % (V)
Vapour pressure	1.3 hPa 20 °C
Vapour density	3.66
Density	1.05 g/cm3 20 °C
Relative density	No information.
Water solubility (g/l)	3.4 g/l 20 °C
Fat solubility (g/l)	No information.
Partition coefficient: n-octanol/water	log POW:1.48 (20 °C) No bioaccumulation expected.
Auto-ignition temperature	190 °C
Decomposition temperature	No information.
Viscosity	
Kinematic viscosity	No information.
Dynamic viscosity	1.39 mPa.s 25 °C
Explosive properties	Not classified as explosive.
Oxidising properties	none

SECTION 10: Stability and Reactivity

10.1 Reactivity

Forms explosive mixtures with air at intense temperatures.

10.2 Chemical stability

Sensitive to light. Sensitive to weather.

10.3 Possibility of hazardous reactions

Violent reactions possible with bases, alkali metals, aluminium, iron, performic acid, phenols, oxygen, oxidizing agents.

10.4 Conditions to avoid

Powerful heating.

10.5 Incompatible materials

Aluminum, various plastics.

10.6 Hazardous decomposition products

No known hazardous decomposition products.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute oral toxicity
LD50 rat: 1300 mg/kg
(RTECS)

Skin Irritation:
slight irritation

It reduces the oil rate in the skin. Therefore, it irritates the skin and causes burns if it is exposed at certain intervals and for a long time.

11.2 Additional information



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Handle in accordance with good industrial hygiene and safety practice.

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish

LC50 *Lepomis macrochirus* (Bluegill sunfish): 1.07 mg/l; 96 h (IUCLID)

Toxicity to daphnia and other aquatic invertebrates

EC50 *Daphnia magna* (Water flea): 50 mg/l; 24 hours (IUCLID)

EC5 *E. sulcatum*: 0.29 mg/l; 72 hours (IUCLID)

Toxicity to algae (algae)

IC5 *Scenedesmus quadricauda* (green algae): 34 mg/l; 8 g (IUCLID)

Toxicity to bacteria

EC5 *Pseudomonas putida*: 132 mg/l; 16 h (IUCLID)

12.2 Persistence and degradability

Biodegradability

66%; 14g

OECD Test Guideline 301C

It is easily biodegradable by itself.

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

Forms toxic mixtures in water despite dilution measures.

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 1990	UN 1990	UN 1990	UN 1990	UN 1990
14.2 UN proper shipping name				
BENZALDEHYDE	BENZALDEHYDE	BENZALDEHYDE	BENZALDEHYDE	BENZALDEHYDE
14.3 Transport hazard class(es)				
9	9	9	9	9



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14.4 Packing group

III III III III III

14.5 Environmental hazards

NO NO NO NO NO

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

H302 Harmful if swallowed.

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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